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

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

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

Instructions:

- **Prepare one form for each individually monitored unit.**
- **Please type or print legibly.**
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i).
- In accordance with NC General Statutes Chapter 89C and 89E and NC Solid Waste Management Rules 15A NCAC 13B, be sure to affix a seal to the bottom of this page, when applicable.
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

Solid Waste Monitoring Data Submittal Information

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

Altamont Environmental, Inc.

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

Name: Katie Massie Phone: (828) 281-3350

E-mail: kmassie@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 Operating Solid Waste Facility	271 Craig Rudisill Road Marshall, NC 28714	58-03	.0500 & .1600	April 29-30, 2008

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.

Joel D. Lenk P.G. (828) 281-3350

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

Signature 8/27/08 Date

Affix NC Licensed/ Professional Geologist/Engineer Seal here:

NORTH CAROLINA LICENSED SEAL 2044 GEOLOGIST JOEL D. LENK

Revised 01/2007

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SPRING 2008 SEMIANNUAL WATER QUALITY MONITORING REPORT

MADISON COUNTY
OPERATING SOLID WASTE FACILITY
MADISON COUNTY, NORTH CAROLINA
PERMIT # 58-03

Prepared for
Madison County, North Carolina

August 27, 2008

Prepared by
Altamont Environmental, Inc.
50 College Street
Asheville, North Carolina 28801
(828) 281-3350

Joel D. Lenk, P.G.
Project Geologist

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1.0 INTRODUCTION

The Madison County Solid Waste Department operates a solid waste facility (the operating landfill) located on Craig Rudisill Road near U.S. Highway 25/70 and Marshall, North Carolina. The solid waste facility includes the following permitted components:

- An operating Construction and Demolition Debris (C&D) landfill cell,
- An operating transfer station,
- A closed C&D landfill cell, and
- A closed Municipal Solid Waste (MSW) landfill cell.

The approximate location of the operating landfill is shown in Figure 1. State and federal regulations applicable to landfills are enforced by the North Carolina Department of Environment and Natural Resources (DENR), Division of Waste Management (DWM). The solid waste facility is permitted by the DENR DWM under Permit No. 58-03. The permit requires semiannual monitoring of groundwater and surface water quality.

This report documents the first semiannual groundwater and surface water monitoring event for 2008 and is being submitted in accordance with requirements stipulated in the DENR Solid Waste Management Rules Title 15A, Subchapter 13B, of the North Carolina Administrative Code (15A NCAC 13B). This semiannual report provides an evaluation of surface water, leachate, and groundwater quality for the solid waste facility. Generalized groundwater flow direction was calculated for the facility and justification for not conducting a statistical analysis of groundwater quality data is also provided.

This report contains the following items:

- Groundwater level measurements and corresponding groundwater elevations;
- An illustration of groundwater and surface water sampling locations;
- Generalized groundwater flow direction map;
- Groundwater, leachate, and surface water quality analytical results;
- Sampling logs; and
- Laboratory analytical reports and chain-of-custody forms.

2.0 METHODS

2.1 GROUNDWATER AND SURFACE WATER SAMPLING

Eight groundwater monitoring wells, two surface water sample locations, and the lined leachate basin were sampled at the landfill by Altamont Environmental, Inc. (Altamont) on April 29 and 30, 2008. Monitoring well MW-6, the background well, was not sampled because it was dry. A replacement background monitoring well is scheduled to be installed during the fall of 2008. Sampling locations are shown on Figure 2.

Prior to collecting groundwater samples from the monitoring wells, the static water level and total depth of each well was measured. Before purging groundwater from monitoring wells, an initial round of field parameters consisting of pH, specific conductivity, dissolved oxygen, turbidity and temperature was collected. Water level measurements and field parameters readings are included in Table 1. Groundwater sampling points were then purged with a disposable bailer until dry, or a minimum of three well volumes of groundwater was removed. As each consecutive well volume was removed from the well with the bailer, an additional round of groundwater parameters was recorded. If the monitoring well was not purged dry groundwater parameters were measured until pH, specific conductivity, and temperature readings each stabilized to within ten percent of their previous reading.

Surface water samples SW-01 and SW-02R were collected at designated locations from the un-named stream flowing adjacent to the facility. The SW-01 sample represents surface water quality upstream of the facility and the SW-02R sample represents surface water quality downstream from the facility. One round of field parameters, consisting of: temperature, pH, specific conductivity, dissolved oxygen, and turbidity were measured and recorded at each surface water sampling location (see Table 1).

Field parameters and additional observations pertaining to the operating landfill sampling locations are provided on sampling logs, which are included as Appendix A. Following sample collection groundwater and surface water samples were immediately placed on ice in sample coolers for transport to

Pace Analytical Laboratories (Pace), a North Carolina certified laboratory located in Asheville, North Carolina. All samples were analyzed for Appendix I volatile organic compounds (VOCs) using US EPA Method 8260, and Appendix I metals using US EPA Methods 6010 and 7470. Proper chain-of-custody documentation was followed during collection and transportation of each sample, and is included in Appendix B of this report.

2.2 LEACHATE

As stated in the previous section, concurrent with the surface and groundwater samples, a sample was collected from the lined leachate basin (LP-1). Specifically the sample was collected from where leachate enters the basin. One round of field parameters were measured and recorded for the sample (see Table 1).

The sampling log for LP-1 is included in Appendix A. Following collection, sample LP-1 was immediately placed on ice in a cooler for transport to Pace. The sample was analyzed for the following parameters:

- Appendix I volatile organic compounds (VOCs) using US EPA Method 8260,
- Appendix I metals using US EPA Methods 6010 and 7470,
- Biochemical Oxygen Demand (BOD),
- Chemical Oxygen Demand (COD),
- Nitrate,
- Phosphorus, and
- Sulfate

3.0 FINDINGS

3.1 ANALYTICAL RESULTS

The laboratory analytical results for groundwater, surface water, and the lined leachate basin samples collected at the landfill are listed in Table 1. Table 1 is displayed in the Electronic Data Deliverable format specified by the Solid Waste Section of the DWM memorandum dated October 27, 2006. The laboratory analytical report issued by Pace is included in Appendix B.

As stipulated in the October 27, 2006 memorandum referenced above, non-detections were reported as "Below Quantitation Limit" (BQL), and all concentrations exceeding the laboratory-specific Method Detection Limit (MDL) were reported and appropriately qualified (see Tables 1-3). The MDL is the minimum concentration of a substance that can be measured and reported by a laboratory with 99% confidence that the analyte concentration is greater than zero. All detections were compared to analyte-specific Solid Waste Section Limits (SWSLs) established by the NC Solid Waste Section. 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 SWSL, the analytical result is qualified as estimated, and is flagged with a "J" qualifier (J-flag).

Detected concentrations of analytes in groundwater samples were compared to the standard specified by 15A NCAC 2L groundwater quality standards (2L Standard). Detected concentrations of analytes in groundwater with no established 2L Standard were compared to the Groundwater Protection Standard (GWPS) pursuant to 15A NCAC 13B.1634. Detections of analytes in surface water samples were compared to the standard from the 15A NCAC 2B groundwater quality standards (2B Standard).

Groundwater

- VOCs were not detected in groundwater.
- Eleven metals (barium, cadmium, chromium, cobalt, copper, nickel, selenium, silver, thallium, vanadium, and zinc) were detected in groundwater samples at estimated concentrations above the Method Detection Limit (MDL) but below Solid Waste Section Limit (SWSL). These results are flagged with a "J" qualifier in Table 1.
- Eleven metals (arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, vanadium, and zinc) exceeded their respective SWSL in one or more groundwater samples. Table 2 lists all SWSL exceedances.
- Five metals (arsenic, barium, cadmium, chromium, and lead) exceeded their respective 2L Standard in one or more groundwater samples.
- Two metals (cobalt and vanadium) have no established 2L Standard, and exceeded their respective GWPS in one or more groundwater samples.

The following statements summarize 2L Standard and GWPS exceedances for Appendix I metals in groundwater samples shown in Table 3:

- ***Groundwater Sample MW-01:*** An estimated concentration (J-flag) of vanadium was detected in excess of the GWPS.
- ***Groundwater Sample MW-02:*** An estimated concentration (J-flag) of vanadium was detected in excess of the GWPS.
- ***Groundwater Sample MW-03:*** Cobalt was detected in excess of the GWPS. .
- ***Groundwater Sample MW-04:*** An estimated concentration (J-flag) of vanadium was detected in excess of the GWPS.
- ***Groundwater Sample MW-05:*** Vanadium was detected in excess of the GWPS. Cadmium and chromium were detected in excess of the 2L Standard.
- ***Groundwater Sample MW-7R:*** Arsenic, barium, cadmium, chromium, and lead exceeded the 2L Standard. Vanadium exceeded the GWPS.
- ***Groundwater Sample MW-08:*** Vanadium was detected in excess of the GWPS.
- ***Groundwater Sample MW-09:*** Vanadium exceeded the GWPS. Cadmium was detected at concentration above the 2L Standard.

Surface Water

The following statements summarize detections of Appendix I metals in surface water. 2B Standard and GWPS exceedances are shown in Table 3:

- **Sample SW-01 (upstream):** Four metals (barium, chromium, cobalt, and vanadium) were detected at estimated concentrations (J-flags). These estimated detections are shown in Table 1. None of the detected metal concentrations exceeded the 2B Standard. Zinc was detected at concentration above the SWSL.
- **Sample SW-02R (downstream):** Six metals (barium, chromium, cobalt, copper, nickel and vanadium) were detected at estimated concentrations (J-flags). These estimated detections are shown in Table 1. Zinc was detected at concentration above the SWSL. None of the metals were detected at concentrations above 2B standards. These results are summarized in Tables 2 and 3.

Analytical results for VOCs concentrations in surface water are shown in Tables 1 and 2, and are summarized as follows:

- VOCs were not detected in surface water samples collected from the SW-01 or SW-02R locations.

Lined Leachate Basin

The following statements summarize Appendix I metal detections in the sample collected from the lined leachate basin (LP-1).

- Six metals (barium, chromium, cobalt, copper, nickel, silver and vanadium) were detected at estimated concentrations (J-flags) in the sample (LP-1) collected from the lined leachate basin. These detections are shown in Table 1.
- Only zinc was detected at concentration above the SWSL in sample LP-1 collected from the lined leachate basin. The detection is shown in Table 2.

Analytical results for VOCs detected in the lined leachate basin sample are shown in Tables 1 and 2, and are summarized as follows:

- One VOC (acetone) was detected at an estimated concentration (J-flag), below the SWSL, in the lined leachate basin sample (LP-1). This detection is shown in Table 1.

In addition to analyzing for Appendix I metals and Appendix I VOCs, the lined leachate basin was analyzed for BOD, COD, nitrate, phosphorus, and sulfate. The analytical results (shown in Table 1) for these additional parameters are as follows:

- BOD: The detected concentration was 21.7 milligrams per liter (mg/l).
- COD: The detected concentration was 314 mg/l.
- Nitrate: An estimated concentration (J-flag) was detected of 5.4 mg/l.
- Phosphorus: The detected concentration was 0.49 mg/l.
- Sulfate: An estimated concentration (J-flag) was detected of 11.3 mg/l.

3.2 HYDROGEOLOGY

The predominant shallow groundwater flow direction at the operating landfill is to the west/ northwest, toward a tributary of Walnut Creek. Figure 3 depicts the generalized groundwater flow direction based on the groundwater measurements taken by Altamont on April 29 and 30, 2008. Water level data are summarized on Table 4.

3.3 STATISTICAL ANALYSES

The Kruskal-Wallis non-parametric statistical testing procedure was not conducted on the data collected from the eight monitoring wells that were sampled during the Spring of 2008 at the landfill. The reason is that background monitoring well MW-6 was not sampled during the current or previous sampling events because it is dry. That condition has created a gap in data gathered from the background well. Madison County will install a replacement background well during fall 2008. Statistical analysis will resume in spring 2010, once installation of the new well is completed and there are sufficient data to perform such analysis ($n \geq 4$). The new background well will be surveyed in order to obtain ground surface elevations and top of casing elevation. This situation was discussed and documented on July 25, 2008 with Ms. Jackie Drummond, a Compliance Hydrogeologist for Madison County for the DENR Solid Waste Section. It was determined during that conversation that statistical analysis would be postponed until a significant data set was obtained from the new background well, presumably after the spring sampling event in 2010. Background monitoring well MW-6 will not be abandoned at this time.

4.0 SUMMARY

Groundwater

Analyses of data collected during the semiannual groundwater monitoring event conducted on April 29 and 30, 2008 at the Madison County Landfill indicates that 11 metals were detected at concentrations above SWSLs in groundwater samples collected from monitoring wells. Of the 11 detected metals, the concentrations of arsenic, barium, cadmium, chromium, cobalt, lead, and vanadium exceeded the 2L Standard or GWPS in one or more of the groundwater samples. Additionally, vanadium was detected in one or more of the groundwater samples at estimated concentrations below the SWSLs that exceeded 2L Standards or GWPSs. VOCs were not detected in groundwater at the operating landfill.

Specifically, exceedances of groundwater quality standards (2L Standards or GWPSs) were observed in groundwater samples collected from monitoring wells as follows:

- ***Groundwater Sample MW-01:*** An estimated concentration (J-flag) of vanadium was detected in excess of the GWPS at concentrations of 16.2 µg/l.
- ***Groundwater Sample MW-02:*** An estimated concentration (J-flag) of vanadium was detected in excess of the GWPS at concentrations of 9.7 µg/l.
- ***Groundwater Sample MW-03:*** Cobalt was detected in excess of the GWPS at a concentration of 77.5 µg/l.
- ***Groundwater Sample MW-04:*** An estimated concentration (J-flag) of vanadium was detected in excess of the GWPS at a concentration of 4.0 µg/l.
- ***Groundwater Sample MW-05:*** Vanadium was detected in excess of the GWPS at concentration of 93.9 µg/l. Cadmium and chromium were detected in excess of the 2L Standard at concentrations of 1.9 µg/l and 111 µg/l, respectively.
- ***Groundwater Sample MW-7R:*** Arsenic, barium, cadmium, chromium, and lead were detected at concentrations of 68.6 µg/l, 2160 µg/l, 13.2 µg/l, 211 µg/l and 27.8 µg/l, respectively, all of which exceeded the 2L Standard. Vanadium was detected at concentration of 307 µg/l and exceeded the GWPS.
- ***Groundwater Sample MW-08:*** No metals were detected in excess of the 2L Standard. Vanadium was detected in excess of the GWPS at concentration of 26.1 µg/l.
- ***Groundwater Sample MW-09:*** Vanadium was detected at concentration of 201 µg/l, which exceeds the GWPS. Cadmium was detected at a concentration of 5.5 µg/l which is above the 2L Standard.

As noted in the sampling logs (Appendix A), the turbidity of groundwater samples collected from monitoring wells ranged from medium to high. In the least turbid groundwater samples (those from MW-02 and MW-04), fewer metals were detected, and the concentrations of detected metals were lower in these samples in comparison to other monitoring wells. Particles that cause turbidity contain metallic ions derived from their parent rock. Some or all of the metals detected in groundwater samples may be attributable to this source. Altamont will employ low-flow sampling techniques for sampling groundwater in the future at the landfill beginning in the fall of 2008. Low flow techniques will be conducted in an attempt to reduce turbidity and provide groundwater samples that are representative groundwater at the landfill. Statistical analysis will be performed on groundwater analytical data once the new background well is installed in September 2008 and a sufficient amount of background data is obtained from the new monitoring well, presumably in the spring of 2010. Statistical analysis will help determine whether detected concentrations of metals in groundwater are within a range that is reasonable to assume are naturally occurring.

Furthermore, a comparison of metal detections higher that the 2L Standard in groundwater, to metal detections in the sample collected from the lined leachate basin reveals that metal concentrations in groundwater are uniformly greater than metal detections in landfill leachate. If landfill material or leachate was impacting groundwater at the site, one would expect the leachate to have higher metal concentrations than groundwater, but this is not the case. This observation, combined with those related to groundwater turbidity, further suggest that the metals detected in the monitoring wells may be naturally occurring.

Surface Water

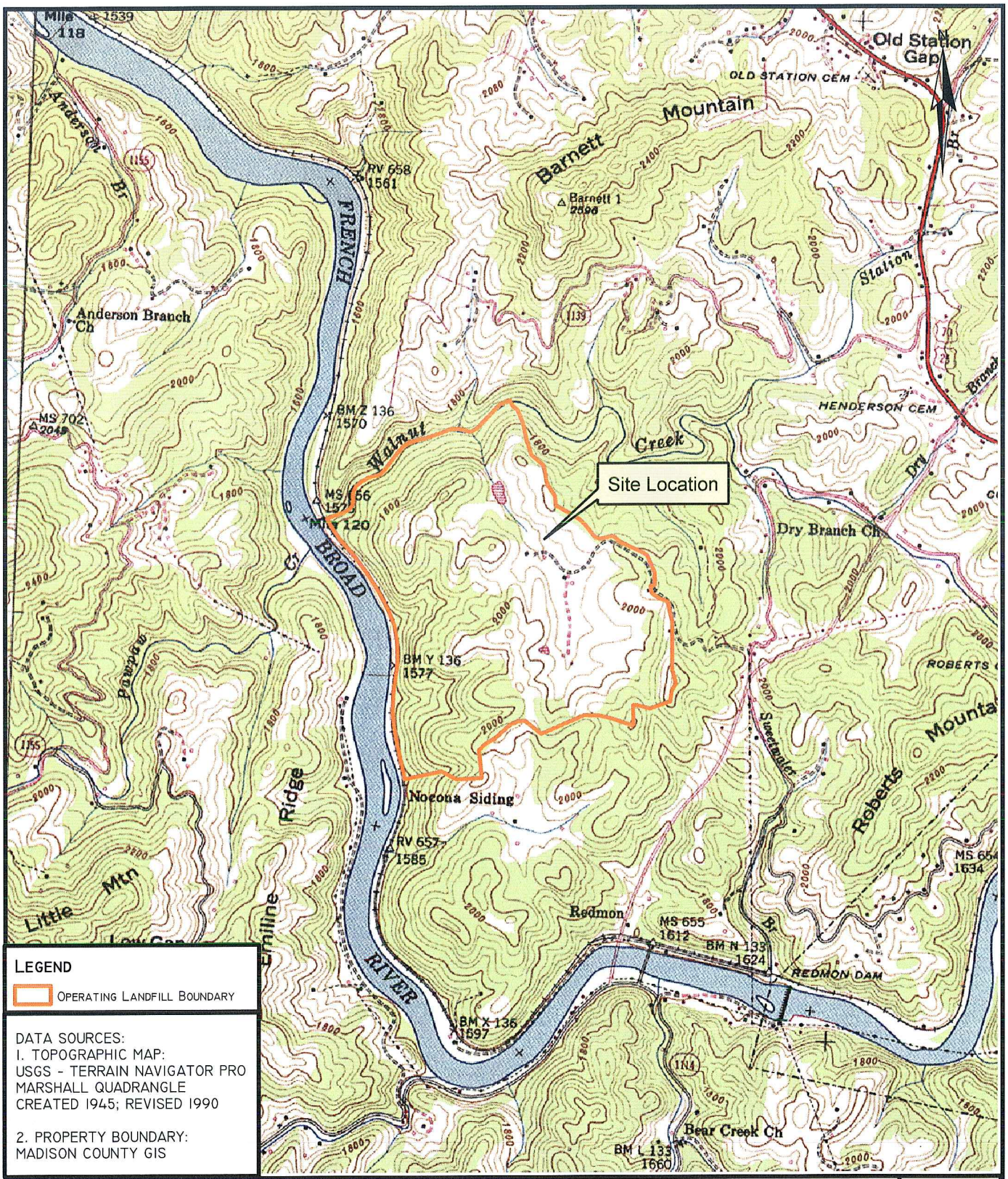
Only zinc was detected above its respective SWSL in surface water samples collected during the April 2008 sampling event. Metal concentrations detected in surface water samples collected from both sampling locations were below respective 2B Standards.

Lined Leachate Basin

Zinc was detected in exceedance of its respective SWSL in the sample collected from the lined leachate basin (LP-1) during the April 2008 sampling event. Mercury was not detected during this event, as it was

detected during the April 2007 sampling event. Only the April 2007 sampling event revealed the presence of mercury in the LP-1 sample.

Altamont will continue to monitor metals and VOCs on a semiannual basis at the operating landfill. The next sampling event is scheduled for October 2008.



LEGEND

OPERATING LANDFILL BOUNDARY

DATA SOURCES:
1. TOPOGRAPHIC MAP:
USGS - TERRAIN NAVIGATOR PRO
MARSHALL QUADRANGLE
CREATED 1945; REVISED 1990

2. PROPERTY BOUNDARY:
MADISON COUNTY GIS

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SITE LOCATION MAP
MADISON COUNTY OPERATING SOLID WASTE FACILITY

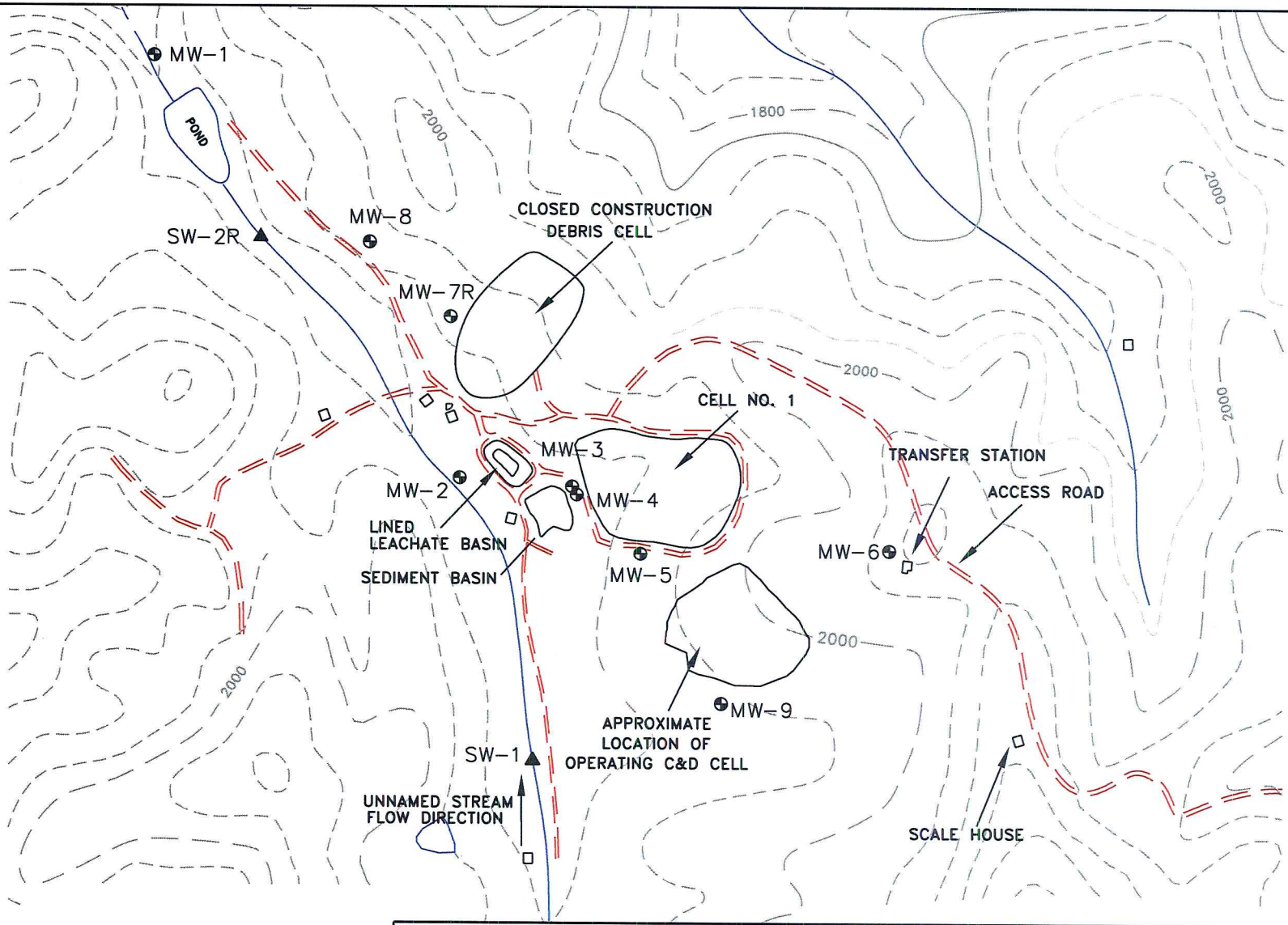
271 CRAIG RUDISILL ROAD
MARSHALL, NC 28753

FIGURE 1

DRAWN BY: MARTA A VANDUSSEN
PROJECT MANAGER: JOEL LENK
CLIENT: MADISON COUNTY
DATE: 8/27/2008

SCALE
0 500 1,000 2,000 Feet

P:\Madison County\Figures\GIS\GIS User\MXDs\Site_Location_OperatingMadisonLandfill.mxd



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DRAWN BY: MARTA A VANDUSSEN
PROJECT MANAGER: JOEL D LENK
CLIENT: MADISON COUNTY
DATE: 08/26/2008

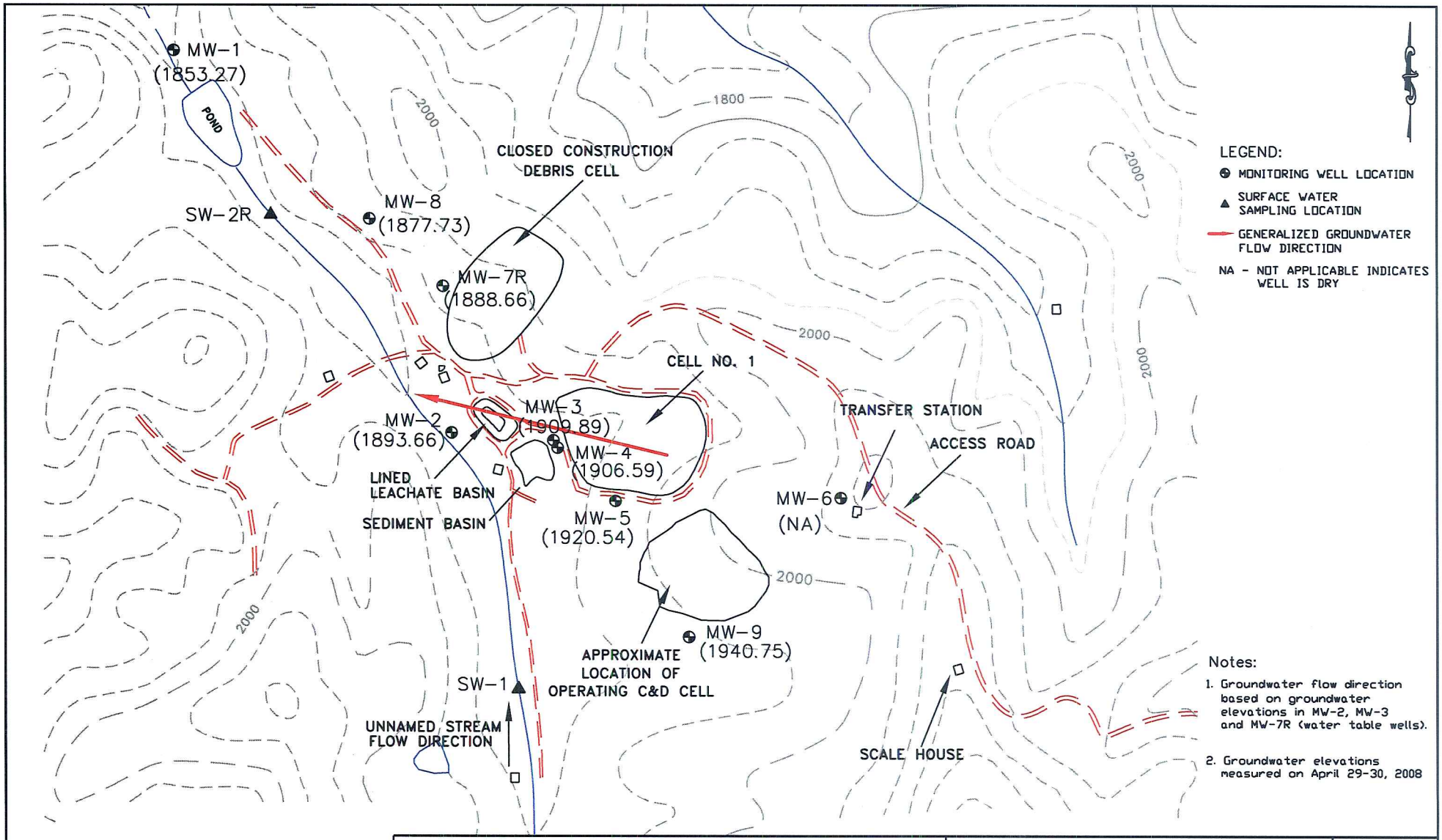
SCALE (FEET)
250 0 250 500

SAMPLE LOCATION

MADISON COUNTY OPERATING SOLID WASTE FACILITY
271 CRAIG RUDISILL ROAD
MARSHALL, NC 28753

FIGURE 2

FILE PATH: P:\MADISON COUNTY\FIGURES\CAD\FIGURE 2



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DRAWN BY: MARTA A VANDUSSEN
PROJECT MANAGER: JOEL D LENK
CLIENT: MADISON COUNTY
DATE: 08/26/2008

SCALE (FEET)
250 0 250 500

GROUNDWATER FLOW

MADISON COUNTY OPERATING
SOLID WASTE FACILITY
271 CRAIG RUDISILL ROAD
MARSHALL, NC 28753

FIGURE
3

FILE PATH: P:\MADISON COUNTY\FIGURES\CAD\FIGURE 3

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TEL. 828.281.3350 FAC .828.281.3351
www.altamontenvironmental.com

Well Sampling Log

FACILITY NAME: Madison County Landfill - Operating
DATE: 4-29-08
LOCATION: Madison County, North Carolina
SAMPLING TIME: 10:26
SAMPLING PERSONNEL: Jon Hazinski
WEATHER: Partly Cloudy, Cool

WELL NUMBER: MW-01
WELL DIAMETER: 2"
TYPE OF CASING: PVC
MEASURING POINT: TOC
FLUSH MOUNT / STICK-UP
COMMENTS:

WELL DEPTH IN FEET (WD): 19.50
START TIME: 9:55
WATER LEVEL IN FEET (WL): 5.77
LENGTH OF WATER COLUMN: 13.73 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 2.33 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 6.99 GALLONS
ACTUAL VOLUME PURGED: 7.0 GALLONS

WELL CASING VOLUMES (WCV)
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	GALLONS PURGED	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	initial	5.61	99	10.67	4.15	211.1	3.55	
2	2.5	5.42	123	10.67	3.57	200.6	133.5	
3	4.75	5.44	117	10.74	3.90	196.8	514.1	
4	7.0	5.47	114	10.79	3.86	199.8	478.4	
5								
6								
7								
8								
9								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC	2	Appendix I Metals by 6000/7000
40 ml GLASS	3	Appendix I VOCs by 8260
1 L GLASS		
OTHER		

PROTECTIVE CASING: OK PAD: OK LOCK: OK VEGETATION: OK ACCESS: OK

Sampling Personnel Signature: [signature] **Date:** 4-29-08

Notes: µS = micro-Siemen
C° = degrees Celsius
mg/L = milligrams per liter
mV = millivolt
NTU = nephelometric turbidity units

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www.altamontenvironmental.com

Well Sampling Log

FACILITY NAME: Madison County Landfill - Operating
DATE: 4-29-08
LOCATION: Madison County, North Carolina
SAMPLING TIME: 9:34
SAMPLING PERSONNEL: Jon Hazinski
WEATHER: Partly Cloudy, Cool

WELL NUMBER: MW-02
WELL DIAMETER: 2"
TYPE OF CASING: PVC
MEASURING POINT: TOC
FLUSH MOUNT / STICK-UP
COMMENTS:

WELL DEPTH IN FEET (WD): 18.20
START TIME: 9:00
WATER LEVEL IN FEET (WL): 5.28
LENGTH OF WATER COLUMN: 12.92 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 2.20 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 6.60 GALLONS
ACTUAL VOLUME PURGED: 6.75 GALLONS

WELL CASING VOLUMES (WCV)
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	GALLONS PURGED	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	initial	6.75	203	10.05	3.55	146.6	3.35	
2	2.25	6.12	180	10.28	2.49	153.8	11.28	
3	4.5	5.96	178	10.22	2.65	162.8	31.70	
4	6.75	5.93	180	10.27	2.59	165.4	32.75	
5								
6								
7								
8								
9								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC	2	Appendix I Metals by 6000/7000
40 ml GLASS	3	Appendix I VOCs by 8260
1 L GLASS		
OTHER		

PROTECTIVE CASING: OK PAD: OK LOCK: OK VEGETATION: OK ACCESS: Good

Sampling Personnel Signature: [signature] **Date:** 4-29-08

Notes: µS = micro-Siemen
C° = degrees Celsius
mg/L = milligrams per liter
mV = millivolt
NTU = nephelometric turbidity units

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Well Sampling Log

FACILITY NAME: Madison County Landfill - Operating
DATE: 4-29-08
LOCATION: Madison County, North Carolina
SAMPLING TIME: 13:53
SAMPLING PERSONNEL: Jon Hazinski
WEATHER: Partly Cloudy, Cool

WELL NUMBER: MW-03
WELL DIAMETER: 2"
TYPE OF CASING: PVC
MEASURING POINT: TOC
FLUSH MOUNT / STICK-UP
COMMENTS:

WELL DEPTH IN FEET (WD): 35.90
START TIME: 13:12
WATER LEVEL IN FEET (WL): 23.07
LENGTH OF WATER COLUMN: 12.83 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 2.18 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 6.54 GALLONS
ACTUAL VOLUME PURGED: 6.75 GALLONS

WELL CASING VOLUMES (WCV)
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	GALLONS PURGED	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	initial	5.84	410	14.95	3.44	119.4	84.26	
2	2.25	5.97	588	14.53	2.27	61.8	161.1	
3	4.5	6.00	578	14.29	2.20	61.0	185.3	
4	6.75	6.04	575	14.37	2.15	66.8	240.2	
5								
6								
7								
8								
9								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC	2	Appendix I Metals by 6000/7000
40 ml GLASS	3	Appendix I VOCs by 8260
1 L GLASS		
OTHER		

PROTECTIVE CASING: OK PAD: OK LOCK: OK VEGETATION: OK ACCESS: Good

Sampling Personnel Signature: [signature] **Date:** 4-29-08

Notes: µS = micro-Siemen
C° = degrees Celsius
mg/L = milligrams per liter
mV = millivolt
NTU = nephelometric turbidity units

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Well Sampling Log

FACILITY NAME: Madison County Landfill - Operating
DATE: 4-29-08
LOCATION: Madison County, North Carolina
SAMPLING TIME: 15:01
SAMPLING PERSONNEL: Jon Hazinski
WEATHER: Partly Cloudy

WELL NUMBER: MW-04
WELL DEPTH IN FEET (WD): 83.00
START TIME: 14:00
WELL DIAMETER: 2"
WATER LEVEL IN FEET (WL): 29.05
TYPE OF CASING: PVC
LENGTH OF WATER COLUMN: 53.95 FEET
MEASURING POINT: TOC
(WD) - (WL) = (LWC)
FLUSH MOUNT / STICK-UP
ONE CASING VOLUME: 9.17 GALLONS
COMMENTS: Pump placed ~ 60 ft below TOC. Water level ~ 32 ft at time of sample
(LWC) x (WCV)
THREE CASING VOLUMES: 27.51 GALLONS
ACTUAL VOLUME PURGED: 30 GALLONS

WELL CASING VOLUMES (WCV)
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	GALLONS PURGED	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	initial	6.24	249	15.65	4.74	74.6	26.88	
2	10	6.34	235	15.38	3.02	97.5	18.36	
3	20	6.34	235	15.39	2.93	111.7	16.03	
4	30	6.36	236	15.44	3.15	116.2	13.22	
5								
6								
7								
8								
9								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC	2	Appendix I Metals by 6000/7000
40 ml GLASS	3	Appendix I VOCs by 8260
1 L GLASS		
OTHER		

PROTECTIVE CASING: OK PAD: OK LOCK: OK VEGETATION: OK ACCESS: Good

Sampling Personnel Signature: [signature] **Date:** 4-29-08

Notes: µS = micro-Siemen
C° = degrees Celsius
mg/L = milligrams per liter
mV = millivolt
NTU = nephelometric turbidity units

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Well Sampling Log

FACILITY NAME: Madison County Landfill - Operating
DATE: 4-29-08
LOCATION: Madison County, North Carolina
SAMPLING TIME: 1557
SAMPLING PERSONNEL: Jon Hazinski
WEATHER: Sunny, cool

WELL NUMBER: MW-05
WELL DIAMETER: 2"
TYPE OF CASING: PVC
MEASURING POINT: TOC
FLUSH MOUNT / STICK-UP
COMMENTS:

WELL DEPTH IN FEET (WD): 64.00
START TIME: 15:20
WATER LEVEL IN FEET (WL): 52.22
LENGTH OF WATER COLUMN: 11.78 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 2.00 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 6.00 GALLONS
ACTUAL VOLUME PURGED: 6.0 GALLONS

WELL CASING VOLUMES (WCV)
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	GALLONS PURGED	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	initial	6.25	193	13.69	1.83	143.3	48.51	
2	2.0	6.13	191	13.23	1.69	151.0	238.0	
3	4.0	6.15	191	13.19	1.81	153.4	496.8	
4	6.0	6.14	187	13.08	1.88	146.5	448.4	
5								
6								
7								
8								
9								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC	2	Appendix I Metals by 6000/7000
40 ml GLASS	3	Appendix I VOCs by 8260
1 L GLASS		
OTHER		

PROTECTIVE CASING: OK PAD: OK LOCK: OK VEGETATION: OK ACCESS: Good

Sampling Personnel Signature: [signature] **Date:** 4-29-08

Notes: µS = micro-Siemen
C° = degrees Celsius
mg/L = milligrams per liter
mV = millivolt
NTU = nephelometric turbidity units

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Well Sampling Log

FACILITY NAME: Madison County Landfill - Operating
DATE: 4/29/08
LOCATION: Madison County, North Carolina
SAMPLING TIME:
SAMPLING PERSONNEL: Jon Hazinski
WEATHER: Partly Cloudy, Cool

WELL NUMBER: MW-06
WELL DIAMETER: 2"
TYPE OF CASING: PVC
MEASURING POINT: TOC
FLUSH MOUNT / STICK-UP
COMMENTS: Well dry. No sample collected.

WELL DEPTH IN FEET (WD): 103.80
START TIME: 8:25
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)
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	GALLONS PURGED	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1								
2								
3								
4								
5								
6								
7								
8								
9								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC	2	Appendix I Metals by 6000/7000
40 ml GLASS	3	Appendix I VOCs by 8260
1 L GLASS		
OTHER		

PROTECTIVE CASING: OK PAD: OK LOCK: OK VEGETATION: OK ACCESS: Good

Sampling Personnel Signature: [signature] **Date:** 4-29-08

Notes: µS = micro-Siemen
C° = degrees Celsius
mg/L = milligrams per liter
mV = millivolt
NTU = nephelometric turbidity units

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Well Sampling Log

FACILITY NAME: Madison County Landfill - Operating
DATE: 4-29-08
LOCATION: Madison County, North Carolina
SAMPLING TIME: 12:51
SAMPLING PERSONNEL: Jon Hazinski
WEATHER: Partly Cloudy, cool

WELL NUMBER: MW-7R
WELL DIAMETER: 2"
TYPE OF CASING: PVC
MEASURING POINT: TOC
FLUSH MOUNT / STICK-UP
COMMENTS: well bailed dry @ ~4 gal. let well recharge and collected sample

WELL DEPTH IN FEET (WD): 41.40
START TIME: 12:18
WATER LEVEL IN FEET (WL): 30.68
LENGTH OF WATER COLUMN: 10.72 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 1.82 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 5.46 GALLONS
ACTUAL VOLUME PURGED: ~4.0 GALLONS

WELL CASING VOLUMES (WCV)
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	GALLONS PURGED	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	initial	6.48	87	13.80	6.22	152.1	91.93	
2	2.0	6.24	91	13.90	6.13	166.5	354.9	
3	~4.0	6.16	86	13.94	6.19	173.5	383.2	
4								
5								
6								
7								
8								
9								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC	2	Appendix I Metals by 6000/7000
40 ml GLASS	3	Appendix I VOCs by 8260
1 L GLASS		
OTHER		

PROTECTIVE CASING: OK PAD: OK LOCK: OK VEGETATION: OK ACCESS: OK

Sampling Personnel Signature: [signature] **Date:** 4-29-08

Notes: µS = micro-Siemen
C° = degrees Celsius
mg/L = milligrams per liter
mV = millivolt
NTU = nephelometric turbidity units

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Well Sampling Log

FACILITY NAME: Madison County Landfill - Operating
DATE: 4-29-08
LOCATION: Madison County, North Carolina
SAMPLING TIME: 11:55
SAMPLING PERSONNEL: Jon Hazinski
WEATHER: Partly Cloudy, Cool

WELL NUMBER: MW-08
WELL DIAMETER: 2"
TYPE OF CASING: PVC
MEASURING POINT: TOC
FLUSH MOUNT / STICK-UP
COMMENTS: Had to wait for well to produce 3 volumes.

WELL DEPTH IN FEET (WD): 26.60
START TIME: 11:23
WATER LEVEL IN FEET (WL): 22.19
LENGTH OF WATER COLUMN: 4.41 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 0.75 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 2.25 GALLONS
ACTUAL VOLUME PURGED: 2.25 GALLONS

WELL CASING VOLUMES (WCV)
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	GALLONS PURGED	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	Inital	6.38	280	13.11	6.31	93.9	44.66	
2	0.75	6.31	277	12.69	6.21	110.2	448.2	
3	1.50	6.26	275	12.57	6.01	118.4	569.8	
4	2.25	6.27	278	12.69	5.93	123.6	552.4	
5								
6								
7								
8								
9								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC	2	Appendix I Metals by 6000/7000
40 ml GLASS	3	Appendix I VOCs by 8260
1 L GLASS		
OTHER		

PROTECTIVE CASING: OK PAD: OK LOCK: OK VEGETATION: OK ACCESS: Good

Sampling Personnel Signature: [signature] **Date:** 4-29-08

Notes: µS = micro-Siemen
C° = degrees Celsius
mg/L = milligrams per liter
mV = millivolt
NTU = nephelometric turbidity units

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Surface Water Sampling Log

FACILITY NAME: Madison County Landfill - Operating
DATE: 4-29-08
LOCATION: Madison County, North Carolina
SAMPLING TIME: 16:20
SAMPLING PERSONNEL: Jon Hazinski
WEATHER: Sunny, Cool

SAMPLE NAME: SW-01

START TIME: 16:12
END TIME: 16:25

COMMENTS: Upstream sample

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

READING	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	6.64	112	14.36	7.21	88.5	106.1	
2							
3							
4							
5							
6							
7							
8							
9							

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
125 ml PLASTIC		
250 ml PLASTIC	2	Appendix I Metals by 6000/7000
500 ml PLASTIC		
40 ml GLASS	3	Appendix I VOCs by 8260
1 L GLASS		
OTHER		

VEGETATION: OK ACCESS: Good

Sampling Personnel Signature: [signature] **Date:** 4-29-08

Notes: µS = micro-Siemen
C° = degrees Celcius
mg/L = milligrams per liter
mV = millivolt
NTU = nephelometric turbidity units

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Surface Water Sampling Log

FACILITY NAME: Madison County Landfill - Operating
DATE: 4-29-08
LOCATION: Madison County, North Carolina
SAMPLING TIME: 11:13
SAMPLING PERSONNEL: Jon Hazinski
WEATHER: Partly Cloudy, Cool

SAMPLE NAME: SW-02R

START TIME: 11:07
END TIME: 11:18

COMMENTS: Downstream sample

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

READING	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	6.50	148	11.10	8.15	64.8	103.4	
2							
3							
4							
5							
6							
7							
8							
9							

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
125 ml PLASTIC		
250 ml PLASTIC	2	Appendix I Metals by 6000/7000
500 ml PLASTIC		
40 ml GLASS	3	Appendix I VOCs by 8260
1 L GLASS		
OTHER		

VEGETATION: OK ACCESS: OK

Sampling Personnel Signature: [signature] **Date:** 4-29-08

Notes: µS = micro-Siemen
C° = degrees Celcius
mg/L = milligrams per liter
mV = millivolt
NTU = nephelometric turbidity units

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Surface Water Sampling Log

FACILITY NAME: Madison County Landfill - Operating
DATE: 4-30-08
LOCATION: Madison County, North Carolina
SAMPLING TIME: 12:21
SAMPLING PERSONNEL: Jon Hazinski
WEATHER: Cool, sunny

SAMPLE NAME: LP-1

START TIME: 12:15
END TIME: 12:45

COMMENTS: leachate pond - sample collected at influent pipe

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

READING	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	8.17	4,504	17.59	2.83	108.7	111.2	
2							
3							
4							
5							
6							
7							
8							
9							

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
125 ml PLASTIC	2	Phosphorus; COD
250 ml PLASTIC	3	Appendix I Metals by 6000/7000; Nitrate/Sulfate
500 ml PLASTIC		
40 ml GLASS	3	Appendix I VOCs by 8260
1 L ~~GLASS~~ Plastic	1	BOD
OTHER		

VEGETATION: OK ACCESS: OK

Sampling Personnel Signature: [signature] **Date:** 4-30-08

Notes: µS = micro-Siemen
C° = degrees Celcius
mg/L = milligrams per liter
mV = millivolt
NTU = nephelometric turbidity units

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Equipment Documentation & Instrument Calibration Data Sheet

Project Name: Madison County Landfills
Project Number: 2006.12
Project Location: Madison County, North Carolina

Equipment Documentation

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

Equipment Type	Manufacturer	Serial Number	Date of Use
150-ft Water Level	Heron	7186	
150-ft Water Level	Solinst	26154	
150-ft Water Level	Solinst	22754	
150-ft Water Level	Testwell	150	4-29+30-08

Calibration Documentation

Person Conducting Calibration: Jon Hazinski
Date of Calibration: 4-28-08
Date of Field Measurements: 4-29 +30-08

Micro TPW Turbidity Meter

Calibration Time	Calib Standard Exp	Instrument Serial #	Instrument Reading		
			1000 NTU	10.0 NTU	0.02 NTU
17:40	Sept 2008	200601045	Initial: 942.3 Cal: 1068	Initial: 9.56 Cal: 9.22	Initial: 0.00 Cal: 0.50

YSI 556 Multiparameter Meter

Calibration Time	Calib Standard Expiration Date	Instrument Serial Number	Instrument Readings						
			pH 4	pH 7	pH 10	QC pH 7	Conductivity 447 µS	QC 84 µS	ORP 200 mV
17:40	Oct 09	07D100979	Initial: 4.01 Cal: 4.00	Initial: 6.99 Cal: 7.00	Initial: 9.93 Cal: 9.99	Meas: 7.07	Initial: 450 Cal: 448	Meas: 81	Initial: 192.7 Cal: 200.0
			Initial: Cal:	Initial: Cal:	Initial: Cal:	Meas:	Initial: Cal:	Meas:	Initial: Cal:

Comments:

Signature and Date: 4-28-08

Note: Electronic equipment calibrated according to the manufacturer's operation manual.

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Well Sampling Log

FACILITY NAME: Madison County Landfill - Operating
DATE: 4-29-08
LOCATION: Madison County, North Carolina
SAMPLING TIME: 10:26
SAMPLING PERSONNEL: Jon Hazinski
WEATHER: Partly Cloudy, Cool

WELL NUMBER: MW-01
WELL DIAMETER: 2"
TYPE OF CASING: PVC
MEASURING POINT: TOC
FLUSH MOUNT / STICK-UP
COMMENTS:

WELL DEPTH IN FEET (WD): 19.50
START TIME: 9:55
WATER LEVEL IN FEET (WL): 5.77
LENGTH OF WATER COLUMN: 13.73 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 2.33 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 6.99 GALLONS
ACTUAL VOLUME PURGED: 7.0 GALLONS

WELL CASING VOLUMES (WCV)
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	GALLONS PURGED	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	initial	5.61	99	10.67	4.15	211.1	3.55	
2	2.5	5.42	123	10.67	3.57	200.6	133.5	
3	4.75	5.44	117	10.74	3.90	196.8	514.1	
4	7.0	5.47	114	10.79	3.86	199.8	478.4	
5								
6								
7								
8								
9								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC	2	Appendix I Metals by 6000/7000
40 ml GLASS	3	Appendix I VOCs by 8260
1 L GLASS		
OTHER		

PROTECTIVE CASING: OK PAD: OK LOCK: OK VEGETATION: OK ACCESS: OK

Sampling Personnel Signature: [signature] **Date:** 4-29-08

Notes: µS = micro-Siemen
C° = degrees Celsius
mg/L = milligrams per liter
mV = millivolt
NTU = nephelometric turbidity units

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Well Sampling Log

FACILITY NAME: Madison County Landfill - Operating
DATE: 4-29-08
LOCATION: Madison County, North Carolina
SAMPLING TIME: 9:34
SAMPLING PERSONNEL: Jon Hazinski
WEATHER: Partly Cloudy, Cool

WELL NUMBER: MW-02
WELL DIAMETER: 2"
TYPE OF CASING: PVC
MEASURING POINT: TOC
FLUSH MOUNT / STICK-UP
COMMENTS:

WELL DEPTH IN FEET (WD): 18.20
START TIME: 9:00
WATER LEVEL IN FEET (WL): 5.28
LENGTH OF WATER COLUMN: 12.92 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 2.20 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 6.60 GALLONS
ACTUAL VOLUME PURGED: 6.75 GALLONS

WELL CASING VOLUMES (WCV)
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	GALLONS PURGED	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	initial	6.75	203	10.05	3.55	146.6	3.35	
2	2.25	6.12	180	10.28	2.49	153.8	11.28	
3	4.5	5.96	178	10.22	2.65	162.8	31.70	
4	6.75	5.93	180	10.27	2.59	165.4	32.75	
5								
6								
7								
8								
9								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC	2	Appendix I Metals by 6000/7000
40 ml GLASS	3	Appendix I VOCs by 8260
1 L GLASS		
OTHER		

PROTECTIVE CASING: OK PAD: OK LOCK: OK VEGETATION: OK ACCESS: Good

Sampling Personnel Signature: [signature] **Date:** 4-29-08

Notes: µS = micro-Siemen
C° = degrees Celsius
mg/L = milligrams per liter
mV = millivolt
NTU = nephelometric turbidity units

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Well Sampling Log

FACILITY NAME: Madison County Landfill - Operating
DATE: 4-29-08
LOCATION: Madison County, North Carolina
SAMPLING TIME: 13:53
SAMPLING PERSONNEL: Jon Hazinski
WEATHER: Partly Cloudy, Cool

WELL NUMBER: MW-03
WELL DIAMETER: 2"
TYPE OF CASING: PVC
MEASURING POINT: TOC
FLUSH MOUNT / STICK-UP
COMMENTS:

WELL DEPTH IN FEET (WD): 35.90
START TIME: 13:12
WATER LEVEL IN FEET (WL): 23.07
LENGTH OF WATER COLUMN: 12.83 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 2.18 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 6.54 GALLONS
ACTUAL VOLUME PURGED: 6.75 GALLONS

WELL CASING VOLUMES (WCV)
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	GALLONS PURGED	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	initial	5.84	410	14.95	3.44	119.4	84.26	
2	2.25	5.97	588	14.53	2.27	61.8	161.1	
3	4.5	6.00	578	14.29	2.20	61.0	185.3	
4	6.75	6.04	575	14.37	2.15	66.8	240.2	
5								
6								
7								
8								
9								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC	2	Appendix I Metals by 6000/7000
40 ml GLASS	3	Appendix I VOCs by 8260
1 L GLASS		
OTHER		

PROTECTIVE CASING: OK PAD: OK LOCK: OK VEGETATION: OK ACCESS: Good

Sampling Personnel Signature: [signature] **Date:** 4-29-08

Notes: µS = micro-Siemen
C° = degrees Celsius
mg/L = milligrams per liter
mV = millivolt
NTU = nephelometric turbidity units

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Well Sampling Log

FACILITY NAME: Madison County Landfill - Operating
DATE: 4-29-08
LOCATION: Madison County, North Carolina
SAMPLING TIME: 15:01
SAMPLING PERSONNEL: Jon Hazinski
WEATHER: Partly Cloudy

WELL NUMBER: MW-04
WELL DEPTH IN FEET (WD): 83.00
START TIME: 14:00
WELL DIAMETER: 2"
WATER LEVEL IN FEET (WL): 29.05
TYPE OF CASING: PVC
LENGTH OF WATER COLUMN: 53.95 FEET
MEASURING POINT: TOC
(WD) - (WL) = (LWC)
FLUSH MOUNT / STICK-UP
ONE CASING VOLUME: 9.17 GALLONS
COMMENTS: Pump placed ~ 60 ft below TOC. Water level ~ 32 ft at time of sample
(LWC) x (WCV)
THREE CASING VOLUMES: 27.51 GALLONS
ACTUAL VOLUME PURGED: 30 GALLONS

WELL CASING VOLUMES (WCV)
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	GALLONS PURGED	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	initial	6.24	249	15.65	4.74	74.6	26.88	
2	10	6.34	235	15.38	3.02	97.5	18.36	
3	20	6.34	235	15.39	2.93	111.7	16.03	
4	30	6.36	236	15.44	3.15	116.2	13.22	
5								
6								
7								
8								
9								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC	2	Appendix I Metals by 6000/7000
40 ml GLASS	3	Appendix I VOCs by 8260
1 L GLASS		
OTHER		

PROTECTIVE CASING: OK PAD: OK LOCK: OK VEGETATION: OK ACCESS: Good

Sampling Personnel Signature: [signature] **Date:** 4-29-08

Notes: µS = micro-Siemen
C° = degrees Celsius
mg/L = milligrams per liter
mV = millivolt
NTU = nephelometric turbidity units

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Well Sampling Log

FACILITY NAME: Madison County Landfill - Operating
DATE: 4-29-08
LOCATION: Madison County, North Carolina
SAMPLING TIME: 1557
SAMPLING PERSONNEL: Jon Hazinski
WEATHER: Sunny, cool

WELL NUMBER: MW-05
WELL DIAMETER: 2"
TYPE OF CASING: PVC
MEASURING POINT: TOC
FLUSH MOUNT / STICK-UP
COMMENTS:

WELL DEPTH IN FEET (WD): 64.00
START TIME: 15:20
WATER LEVEL IN FEET (WL): 52.22
LENGTH OF WATER COLUMN: 11.78 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 2.00 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 6.00 GALLONS
ACTUAL VOLUME PURGED: 6.0 GALLONS

WELL CASING VOLUMES (WCV)
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	GALLONS PURGED	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	initial	6.25	193	13.69	1.83	143.3	48.51	
2	2.0	6.13	191	13.23	1.69	151.0	238.0	
3	4.0	6.15	191	13.19	1.81	153.4	496.8	
4	6.0	6.14	187	13.08	1.88	146.5	448.4	
5								
6								
7								
8								
9								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC	2	Appendix I Metals by 6000/7000
40 ml GLASS	3	Appendix I VOCs by 8260
1 L GLASS		
OTHER		

PROTECTIVE CASING: OK PAD: OK LOCK: OK VEGETATION: OK ACCESS: Good

Sampling Personnel Signature: [signature] **Date:** 4-29-08

Notes: µS = micro-Siemen
C° = degrees Celsius
mg/L = milligrams per liter
mV = millivolt
NTU = nephelometric turbidity units

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Well Sampling Log

FACILITY NAME: Madison County Landfill - Operating
DATE: 4/29/08
LOCATION: Madison County, North Carolina
SAMPLING TIME:
SAMPLING PERSONNEL: Jon Hazinski
WEATHER: Partly Cloudy, Cool

WELL NUMBER: MW-06
WELL DIAMETER: 2"
TYPE OF CASING: PVC
MEASURING POINT: TOC
FLUSH MOUNT / STICK-UP
COMMENTS: Well dry. No sample collected.

WELL DEPTH IN FEET (WD): 103.80
START TIME: 8:25
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)
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	GALLONS PURGED	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1								
2								
3								
4								
5								
6								
7								
8								
9								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC	2	Appendix I Metals by 6000/7000
40 ml GLASS	3	Appendix I VOCs by 8260
1 L GLASS		
OTHER		

PROTECTIVE CASING: OK PAD: OK LOCK: OK VEGETATION: OK ACCESS: Good

Sampling Personnel Signature: [signature] **Date:** 4-29-08

Notes: µS = micro-Siemen
C° = degrees Celsius
mg/L = milligrams per liter
mV = millivolt
NTU = nephelometric turbidity units

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Well Sampling Log

FACILITY NAME: Madison County Landfill - Operating
DATE: 4-29-08
LOCATION: Madison County, North Carolina
SAMPLING TIME: 12:51
SAMPLING PERSONNEL: Jon Hazinski
WEATHER: Partly Cloudy, cool

WELL NUMBER: MW-7R
WELL DIAMETER: 2"
TYPE OF CASING: PVC
MEASURING POINT: TOC
FLUSH MOUNT / STICK-UP
COMMENTS: well bailed dry @ ~4 gal. let well recharge and collected sample

WELL DEPTH IN FEET (WD): 41.40
START TIME: 12:18
WATER LEVEL IN FEET (WL): 30.68
LENGTH OF WATER COLUMN: 10.72 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 1.82 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 5.46 GALLONS
ACTUAL VOLUME PURGED: ~4.0 GALLONS

WELL CASING VOLUMES (WCV)
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	GALLONS PURGED	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	initial	6.48	87	13.80	6.22	152.1	91.93	
2	2.0	6.24	91	13.90	6.13	166.5	354.9	
3	~4.0	6.16	86	13.94	6.19	173.5	383.2	
4								
5								
6								
7								
8								
9								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC	2	Appendix I Metals by 6000/7000
40 ml GLASS	3	Appendix I VOCs by 8260
1 L GLASS		
OTHER		

PROTECTIVE CASING: OK PAD: OK LOCK: OK VEGETATION: OK ACCESS: OK

Sampling Personnel Signature: [signature] **Date:** 4-29-08

Notes: µS = micro-Siemen
C° = degrees Celsius
mg/L = milligrams per liter
mV = millivolt
NTU = nephelometric turbidity units

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Well Sampling Log

FACILITY NAME: Madison County Landfill - Operating
DATE: 4-29-08
LOCATION: Madison County, North Carolina
SAMPLING TIME: 11:55
SAMPLING PERSONNEL: Jon Hazinski
WEATHER: Partly Cloudy, Cool

WELL NUMBER: MW-08
WELL DIAMETER: 2"
TYPE OF CASING: PVC
MEASURING POINT: TOC
FLUSH MOUNT / STICK-UP
COMMENTS: Had to wait for well to produce 3 volumes.

WELL DEPTH IN FEET (WD): 26.60
START TIME: 11:23
WATER LEVEL IN FEET (WL): 22.19
LENGTH OF WATER COLUMN: 4.41 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 0.75 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 2.25 GALLONS
ACTUAL VOLUME PURGED: 2.25 GALLONS

WELL CASING VOLUMES (WCV)
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	GALLONS PURGED	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	Inital	6.38	280	13.11	6.31	93.9	44.66	
2	0.75	6.31	277	12.69	6.21	110.2	448.2	
3	1.50	6.26	275	12.57	6.01	118.4	569.8	
4	2.25	6.27	278	12.69	5.93	123.6	552.4	
5								
6								
7								
8								
9								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC	2	Appendix I Metals by 6000/7000
40 ml GLASS	3	Appendix I VOCs by 8260
1 L GLASS		
OTHER		

PROTECTIVE CASING: OK PAD: OK LOCK: OK VEGETATION: OK ACCESS: Good

Sampling Personnel Signature: [signature] **Date:** 4-29-08

Notes: µS = micro-Siemen
C° = degrees Celsius
mg/L = milligrams per liter
mV = millivolt
NTU = nephelometric turbidity units

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Surface Water Sampling Log

FACILITY NAME: Madison County Landfill - Operating
DATE: 4-29-08
LOCATION: Madison County, North Carolina
SAMPLING TIME: 16:20
SAMPLING PERSONNEL: Jon Hazinski
WEATHER: Sunny, Cool

SAMPLE NAME: SW-01

START TIME: 16:12
END TIME: 16:25

COMMENTS: Upstream sample

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

READING	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	6.64	112	14.36	7.21	88.5	106.1	
2							
3							
4							
5							
6							
7							
8							
9							

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
125 ml PLASTIC		
250 ml PLASTIC	2	Appendix I Metals by 6000/7000
500 ml PLASTIC		
40 ml GLASS	3	Appendix I VOCs by 8260
1 L GLASS		
OTHER		

VEGETATION: OK ACCESS: Good

Sampling Personnel Signature: [signature] **Date:** 4-29-08

Notes: µS = micro-Siemen
C° = degrees Celcius
mg/L = milligrams per liter
mV = millivolt
NTU = nephelometric turbidity units

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Surface Water Sampling Log

FACILITY NAME: Madison County Landfill - Operating
DATE: 4-29-08
LOCATION: Madison County, North Carolina
SAMPLING TIME: 11:13
SAMPLING PERSONNEL: Jon Hazinski
WEATHER: Partly Cloudy, Cool

SAMPLE NAME: SW-02R

START TIME: 11:07
END TIME: 11:18

COMMENTS: Downstream sample

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

READING	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	6.50	148	11.10	8.15	64.8	103.4	
2							
3							
4							
5							
6							
7							
8							
9							

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
125 ml PLASTIC		
250 ml PLASTIC	2	Appendix I Metals by 6000/7000
500 ml PLASTIC		
40 ml GLASS	3	Appendix I VOCs by 8260
1 L GLASS		
OTHER		

VEGETATION: OK ACCESS: OK

Sampling Personnel Signature: [signature] **Date:** 4-29-08

Notes: µS = micro-Siemen
C° = degrees Celcius
mg/L = milligrams per liter
mV = millivolt
NTU = nephelometric turbidity units

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Surface Water Sampling Log

FACILITY NAME: Madison County Landfill - Operating
DATE: 4-30-08
LOCATION: Madison County, North Carolina
SAMPLING TIME: 12:21
SAMPLING PERSONNEL: Jon Hazinski
WEATHER: Cool, sunny

SAMPLE NAME: LP-1

START TIME: 12:15
END TIME: 12:45

COMMENTS: leachate pond - sample collected at influent pipe

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

READING	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	8.17	4,504	17.59	2.83	108.7	111.2	
2							
3							
4							
5							
6							
7							
8							
9							

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
125 ml PLASTIC	2	Phosphorus; COD
250 ml PLASTIC	3	Appendix I Metals by 6000/7000; Nitrate/Sulfate
500 ml PLASTIC		
40 ml GLASS	3	Appendix I VOCs by 8260
1 L ~~GLASS~~ Plastic	1	BOD
OTHER		

VEGETATION: OK ACCESS: OK

Sampling Personnel Signature: [signature] **Date:** 4-30-08

Notes: µS = micro-Siemen
C° = degrees Celcius
mg/L = milligrams per liter
mV = millivolt
NTU = nephelometric turbidity units

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Equipment Documentation & Instrument Calibration Data Sheet

Project Name: Madison County Landfills
Project Number: 2006.12
Project Location: Madison County, North Carolina

Equipment Documentation

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

Equipment Type	Manufacturer	Serial Number	Date of Use
150-ft Water Level	Heron	7186	
150-ft Water Level	Solinst	26154	
150-ft Water Level	Solinst	22754	
150-ft Water Level	Testwell	150	4-29+30-08

Calibration Documentation

Person Conducting Calibration: Jon Hazinski
Date of Calibration: 4-28-08
Date of Field Measurements: 4-29 +30-08

Micro TPW Turbidity Meter

Calibration Time	Calib Standard Exp	Instrument Serial #	Instrument Reading		
			1000 NTU	10.0 NTU	0.02 NTU
17:40	Sept 2008	200601045	Initial: 942.3 Cal: 1068	Initial: 9.56 Cal: 9.22	Initial: 0.00 Cal: 0.50

YSI 556 Multiparameter Meter

Calibration Time	Calib Standard Expiration Date	Instrument Serial Number	Instrument Readings						
			pH 4	pH 7	pH 10	QC pH 7	Conductivity 447 µS	QC 84 µS	ORP 200 mV
17:40	Oct 09	07D100979	Initial: 4.01 Cal: 4.00	Initial: 6.99 Cal: 7.00	Initial: 9.93 Cal: 9.99	Meas: 7.07	Initial: 450 Cal: 448	Meas: 81	Initial: 192.7 Cal: 200.0
			Initial: Cal:	Initial: Cal:	Initial: Cal:	Meas:	Initial: Cal:	Meas:	Initial: Cal:

Comments:

Signature and Date: 4-28-08

Note: Electronic equipment calibrated according to the manufacturer's operation manual.

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www.pacelabs.com

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Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

June 02, 2008

Mr. Joel Lenk
Altamont Environmental
50 College Street
Asheville, NC 28801

RE: Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218382

Dear Mr. Lenk:
Enclosed are the analytical results for sample(s) received by the laboratory on April 30, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

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

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218382

Charlotte Certification IDs

Florida/NELAP Certification Number: E87627
Kansas Certification Number: E-10364
Louisiana/LELAP Certification Number: 04034
North Carolina Drinking Water Certification Number: 37706
North Carolina Wastewater Certification Number: 12
North Carolina Field Services Certification Number: 5342
South Carolina Certification Number: 990060001
South Carolina Bioassay Certification Number: 990060003
Tennessee Certification Number: 04010
Virginia Certification Number: 00213

Asheville Certification IDs

Florida/NELAP Certification Number: E87648
Louisiana/LELAP Certification Number: 03095
New Jersey Certification Number: NC011
North Carolina Drinking Water Certification Number: 37712
North Carolina Wastewater Certification Number: 40
North Carolina Bioassay Certification Number: 9
Pennsylvania Certification Number: 68-03578
South Carolina Certification Number: 99030001
South Carolina Bioassay Certification Number: 99030002
Tennessee Certification Number: 2980
Virginia Certification Number: 00072

Eden Certification IDs

North Carolina Drinking Water Certification Number: 37738
Virginia Drinking Water Certification Number: 00424
North Carolina Wastewater Certification Number: 633

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SAMPLE SUMMARY

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218382

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9218382001	MW-01	Water	04/29/08 10:26	04/30/08 15:25
9218382002	MW-02	Water	04/29/08 09:34	04/30/08 15:25
9218382003	MW-03	Water	04/29/08 13:53	04/30/08 15:25
9218382004	MW-04	Water	04/29/08 15:01	04/30/08 15:25
9218382005	MW-05	Water	04/29/08 15:57	04/30/08 15:25
9218382006	MW-07R	Water	04/29/08 12:51	04/30/08 15:25
9218382007	MW-08	Water	04/29/08 11:55	04/30/08 15:25
9218382008	MW-09	Water	04/30/08 12:59	04/30/08 15:25
9218382009	SW-01	Water	04/29/08 16:20	04/30/08 15:25
9218382010	SW-02R	Water	04/29/08 11:13	04/30/08 15:25
9218382011	Trip Blank (Operating)	Water	04/30/08 00:00	04/30/08 15:25

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SAMPLE ANALYTE COUNT

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218382

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9218382001	MW-01	EPA 6010 GW North Carolina	JMW	14	PASI-A
		EPA 7470	EWS	1	PASI-A
		EPA 8260	MCK	52	PASI-C
9218382002	MW-02	EPA 6010 GW North Carolina	JMW	14	PASI-A
		EPA 7470	EWS	1	PASI-A
		EPA 8260	MCK	52	PASI-C
9218382003	MW-03	EPA 6010 GW North Carolina	JMW	14	PASI-A
		EPA 7470	EWS	1	PASI-A
		EPA 8260	MCK	52	PASI-C
9218382004	MW-04	EPA 6010 GW North Carolina	JMW	14	PASI-A
		EPA 7470	EWS	1	PASI-A
		EPA 8260	MCK	52	PASI-C
9218382005	MW-05	EPA 6010 GW North Carolina	JMW	14	PASI-A
		EPA 7470	EWS	1	PASI-A
		EPA 8260	MCK	52	PASI-C
9218382006	MW-07R	EPA 6010 GW North Carolina	JMW	14	PASI-A
		EPA 7470	EWS	1	PASI-A
		EPA 8260	MCK	52	PASI-C
9218382007	MW-08	EPA 6010 GW North Carolina	JMW	14	PASI-A
		EPA 7470	EWS	1	PASI-A
		EPA 8260	MCK	52	PASI-C
9218382008	MW-09	EPA 6010 GW North Carolina	JMW	14	PASI-A
		EPA 7470	EWS	1	PASI-A
		EPA 8260	MCK	52	PASI-C
9218382009	SW-01	EPA 6010 GW North Carolina	JMW	14	PASI-A
		EPA 7470	EWS	1	PASI-A
		EPA 8260	MCK	52	PASI-C
9218382010	SW-02R	EPA 6010 GW North Carolina	JMW	14	PASI-A
		EPA 7470	EWS	1	PASI-A
		EPA 8260	MCK	52	PASI-C
9218382011	Trip Blank (Operating)	EPA 8260	MCK	52	PASI-C

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ANALYTICAL RESULTS

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218382

Sample: MW-01 **Lab ID: 9218382001** Collected: 04/29/08 10:26 Received: 04/30/08 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	05/02/08 20:25	05/04/08 21:26	7440-36-0	
Arsenic	ND	ug/L	5.0	2.7	1	05/02/08 20:25	05/04/08 21:26	7440-38-2	
Barium	**181**	ug/L	5.0	0.20	1	05/02/08 20:25	05/04/08 21:26	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	05/02/08 20:25	05/04/08 21:26	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	05/02/08 20:25	05/04/08 21:26	7440-43-9	
Chromium	**12.0**	ug/L	5.0	0.40	1	05/02/08 20:25	05/04/08 21:26	7440-47-3	
Cobalt	**7.6**	ug/L	5.0	0.60	1	05/02/08 20:25	05/04/08 21:26	7440-48-4	
Copper	**8.0**	ug/L	5.0	0.30	1	05/02/08 20:25	05/04/08 21:26	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	05/02/08 20:25	05/04/08 21:26	7439-92-1	
Nickel	**6.8**	ug/L	5.0	1.7	1	05/02/08 20:25	05/04/08 21:26	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	05/02/08 20:25	05/04/08 21:26	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	05/02/08 20:25	05/04/08 21:26	7440-22-4	
Vanadium	**16.2**	ug/L	5.0	0.20	1	05/02/08 20:25	05/04/08 21:26	7440-62-2	
Zinc	**29.2**	ug/L	10.0	0.40	1	05/02/08 20:25	05/04/08 21:26	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.090	1	05/13/08 09:30	05/13/08 14:11	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		05/01/08 19:22	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		05/01/08 19:22	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		05/01/08 19:22	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		05/01/08 19:22	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		05/01/08 19:22	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		05/01/08 19:22	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		05/01/08 19:22	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		05/01/08 19:22	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		05/01/08 19:22	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		05/01/08 19:22	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		05/01/08 19:22	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		05/01/08 19:22	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		05/01/08 19:22	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		05/01/08 19:22	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		05/01/08 19:22	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		05/01/08 19:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		05/01/08 19:22	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		05/01/08 19:22	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		05/01/08 19:22	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		05/01/08 19:22	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		05/01/08 19:22	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		05/01/08 19:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		05/01/08 19:22	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		05/01/08 19:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		05/01/08 19:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		05/01/08 19:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		05/01/08 19:22	78-87-5	

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ANALYTICAL RESULTS

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218382

Sample: MW-01 **Lab ID: 9218382001** Collected: 04/29/08 10:26 Received: 04/30/08 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		05/01/08 19:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/01/08 19:22	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		05/01/08 19:22	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		05/01/08 19:22	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		05/01/08 19:22	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		05/01/08 19:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		05/01/08 19:22	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		05/01/08 19:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		05/01/08 19:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		05/01/08 19:22	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		05/01/08 19:22	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		05/01/08 19:22	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		05/01/08 19:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		05/01/08 19:22	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		05/01/08 19:22	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		05/01/08 19:22	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		05/01/08 19:22	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		05/01/08 19:22	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		05/01/08 19:22	75-01-4	
m&p-Xylene	ND	ug/L	2.0	0.66	1		05/01/08 19:22	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		05/01/08 19:22	95-47-6	
4-Bromofluorobenzene (S)	102	%	87-109		1		05/01/08 19:22	460-00-4	
Dibromofluoromethane (S)	109	%	85-115		1		05/01/08 19:22	1868-53-7	
1,2-Dichloroethane-d4 (S)	111	%	79-120		1		05/01/08 19:22	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		05/01/08 19:22	2037-26-5	

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ANALYTICAL RESULTS

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218382

Sample: MW-02 **Lab ID: 9218382002** Collected: 04/29/08 09:34 Received: 04/30/08 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	05/02/08 20:25	05/04/08 21:29	7440-36-0	
Arsenic	ND	ug/L	5.0	2.7	1	05/02/08 20:25	05/04/08 21:29	7440-38-2	
Barium	**145**	ug/L	5.0	0.20	1	05/02/08 20:25	05/04/08 21:29	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	05/02/08 20:25	05/04/08 21:29	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	05/02/08 20:25	05/04/08 21:29	7440-43-9	
Chromium	**3.6J**	ug/L	5.0	0.40	1	05/02/08 20:25	05/04/08 21:29	7440-47-3	
Cobalt	**11.0**	ug/L	5.0	0.60	1	05/02/08 20:25	05/04/08 21:29	7440-48-4	
Copper	**2.0J**	ug/L	5.0	0.30	1	05/02/08 20:25	05/04/08 21:29	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	05/02/08 20:25	05/04/08 21:29	7439-92-1	
Nickel	**9.4**	ug/L	5.0	1.7	1	05/02/08 20:25	05/04/08 21:29	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	05/02/08 20:25	05/04/08 21:29	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	05/02/08 20:25	05/04/08 21:29	7440-22-4	
Vanadium	**9.7**	ug/L	5.0	0.20	1	05/02/08 20:25	05/04/08 21:29	7440-62-2	
Zinc	**13.2**	ug/L	10.0	0.40	1	05/02/08 20:25	05/04/08 21:29	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.090	1	05/13/08 09:30	05/13/08 14:16	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		05/01/08 19:46	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		05/01/08 19:46	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		05/01/08 19:46	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		05/01/08 19:46	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		05/01/08 19:46	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		05/01/08 19:46	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		05/01/08 19:46	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		05/01/08 19:46	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		05/01/08 19:46	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		05/01/08 19:46	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		05/01/08 19:46	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		05/01/08 19:46	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		05/01/08 19:46	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		05/01/08 19:46	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		05/01/08 19:46	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		05/01/08 19:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		05/01/08 19:46	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		05/01/08 19:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		05/01/08 19:46	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		05/01/08 19:46	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		05/01/08 19:46	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		05/01/08 19:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		05/01/08 19:46	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		05/01/08 19:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		05/01/08 19:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		05/01/08 19:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		05/01/08 19:46	78-87-5	

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ANALYTICAL RESULTS

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218382

Sample: MW-02 **Lab ID: 9218382002** Collected: 04/29/08 09:34 Received: 04/30/08 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		05/01/08 19:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/01/08 19:46	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		05/01/08 19:46	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		05/01/08 19:46	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		05/01/08 19:46	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		05/01/08 19:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		05/01/08 19:46	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		05/01/08 19:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		05/01/08 19:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		05/01/08 19:46	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		05/01/08 19:46	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		05/01/08 19:46	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		05/01/08 19:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		05/01/08 19:46	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		05/01/08 19:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		05/01/08 19:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		05/01/08 19:46	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		05/01/08 19:46	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		05/01/08 19:46	75-01-4	
m&p-Xylene	ND	ug/L	2.0	0.66	1		05/01/08 19:46	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		05/01/08 19:46	95-47-6	
4-Bromofluorobenzene (S)	101	%	87-109		1		05/01/08 19:46	460-00-4	
Dibromofluoromethane (S)	107	%	85-115		1		05/01/08 19:46	1868-53-7	
1,2-Dichloroethane-d4 (S)	113	%	79-120		1		05/01/08 19:46	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		05/01/08 19:46	2037-26-5	

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ANALYTICAL RESULTS

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218382

Sample: MW-03 **Lab ID: 9218382003** Collected: 04/29/08 13:53 Received: 04/30/08 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	05/02/08 20:25	05/04/08 21:41	7440-36-0	
Arsenic	ND	ug/L	5.0	2.7	1	05/02/08 20:25	05/04/08 21:41	7440-38-2	
Barium	**216**	ug/L	5.0	0.20	1	05/02/08 20:25	05/04/08 21:41	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	05/02/08 20:25	05/04/08 21:41	7440-41-7	
Cadmium	**0.76J**	ug/L	1.0	0.50	1	05/02/08 20:25	05/04/08 21:41	7440-43-9	
Chromium	**1.3J**	ug/L	5.0	0.40	1	05/02/08 20:25	05/04/08 21:41	7440-47-3	
Cobalt	**77.5**	ug/L	5.0	0.60	1	05/02/08 20:25	05/04/08 21:41	7440-48-4	
Copper	ND	ug/L	5.0	0.30	1	05/02/08 20:25	05/04/08 21:41	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	05/02/08 20:25	05/04/08 21:41	7439-92-1	
Nickel	**3.1J**	ug/L	5.0	1.7	1	05/02/08 20:25	05/04/08 21:41	7440-02-0	
Selenium	**7.2J**	ug/L	10.0	3.8	1	05/02/08 20:25	05/04/08 21:41	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	05/02/08 20:25	05/04/08 21:41	7440-22-4	
Vanadium	ND	ug/L	5.0	0.20	1	05/02/08 20:25	05/04/08 21:41	7440-62-2	
Zinc	**25.3**	ug/L	10.0	0.40	1	05/02/08 20:25	05/04/08 21:41	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.090	1	05/13/08 09:30	05/13/08 14:21	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		05/01/08 20:09	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		05/01/08 20:09	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		05/01/08 20:09	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		05/01/08 20:09	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		05/01/08 20:09	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		05/01/08 20:09	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		05/01/08 20:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		05/01/08 20:09	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		05/01/08 20:09	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		05/01/08 20:09	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		05/01/08 20:09	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		05/01/08 20:09	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		05/01/08 20:09	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		05/01/08 20:09	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		05/01/08 20:09	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		05/01/08 20:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		05/01/08 20:09	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		05/01/08 20:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		05/01/08 20:09	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		05/01/08 20:09	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		05/01/08 20:09	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		05/01/08 20:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		05/01/08 20:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		05/01/08 20:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		05/01/08 20:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		05/01/08 20:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		05/01/08 20:09	78-87-5	

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ANALYTICAL RESULTS

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218382

Sample: MW-03 **Lab ID: 9218382003** Collected: 04/29/08 13:53 Received: 04/30/08 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		05/01/08 20:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/01/08 20:09	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		05/01/08 20:09	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		05/01/08 20:09	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		05/01/08 20:09	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		05/01/08 20:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		05/01/08 20:09	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		05/01/08 20:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		05/01/08 20:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		05/01/08 20:09	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		05/01/08 20:09	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		05/01/08 20:09	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		05/01/08 20:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		05/01/08 20:09	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		05/01/08 20:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		05/01/08 20:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		05/01/08 20:09	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		05/01/08 20:09	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		05/01/08 20:09	75-01-4	
m&p-Xylene	ND	ug/L	2.0	0.66	1		05/01/08 20:09	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		05/01/08 20:09	95-47-6	
4-Bromofluorobenzene (S)	101	%	87-109		1		05/01/08 20:09	460-00-4	
Dibromofluoromethane (S)	105	%	85-115		1		05/01/08 20:09	1868-53-7	
1,2-Dichloroethane-d4 (S)	109	%	79-120		1		05/01/08 20:09	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		05/01/08 20:09	2037-26-5	

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ANALYTICAL RESULTS

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218382

Sample: MW-04 **Lab ID: 9218382004** Collected: 04/29/08 15:01 Received: 04/30/08 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	05/02/08 20:25	05/04/08 21:45	7440-36-0	
Arsenic	ND	ug/L	5.0	2.7	1	05/02/08 20:25	05/04/08 21:45	7440-38-2	
Barium	**121**	ug/L	5.0	0.20	1	05/02/08 20:25	05/04/08 21:45	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	05/02/08 20:25	05/04/08 21:45	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	05/02/08 20:25	05/04/08 21:45	7440-43-9	
Chromium	ND	ug/L	5.0	0.40	1	05/02/08 20:25	05/04/08 21:45	7440-47-3	
Cobalt	**0.88J**	ug/L	5.0	0.60	1	05/02/08 20:25	05/04/08 21:45	7440-48-4	
Copper	ND	ug/L	5.0	0.30	1	05/02/08 20:25	05/04/08 21:45	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	05/02/08 20:25	05/04/08 21:45	7439-92-1	
Nickel	ND	ug/L	5.0	1.7	1	05/02/08 20:25	05/04/08 21:45	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	05/02/08 20:25	05/04/08 21:45	7782-49-2	
Silver	**0.21J**	ug/L	5.0	0.10	1	05/02/08 20:25	05/04/08 21:45	7440-22-4	
Vanadium	**4.0J**	ug/L	5.0	0.20	1	05/02/08 20:25	05/04/08 21:45	7440-62-2	
Zinc	**7.4J**	ug/L	10.0	0.40	1	05/02/08 20:25	05/04/08 21:45	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.090	1	05/13/08 09:30	05/13/08 14:24	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		05/01/08 20:33	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		05/01/08 20:33	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		05/01/08 20:33	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		05/01/08 20:33	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		05/01/08 20:33	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		05/01/08 20:33	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		05/01/08 20:33	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		05/01/08 20:33	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		05/01/08 20:33	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		05/01/08 20:33	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		05/01/08 20:33	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		05/01/08 20:33	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		05/01/08 20:33	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		05/01/08 20:33	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		05/01/08 20:33	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		05/01/08 20:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		05/01/08 20:33	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		05/01/08 20:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		05/01/08 20:33	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		05/01/08 20:33	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		05/01/08 20:33	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		05/01/08 20:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		05/01/08 20:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		05/01/08 20:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		05/01/08 20:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		05/01/08 20:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		05/01/08 20:33	78-87-5	

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ANALYTICAL RESULTS

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218382

Sample: MW-04 **Lab ID: 9218382004** Collected: 04/29/08 15:01 Received: 04/30/08 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		05/01/08 20:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/01/08 20:33	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		05/01/08 20:33	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		05/01/08 20:33	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		05/01/08 20:33	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		05/01/08 20:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		05/01/08 20:33	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		05/01/08 20:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		05/01/08 20:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		05/01/08 20:33	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		05/01/08 20:33	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		05/01/08 20:33	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		05/01/08 20:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		05/01/08 20:33	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		05/01/08 20:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		05/01/08 20:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		05/01/08 20:33	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		05/01/08 20:33	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		05/01/08 20:33	75-01-4	
m&p-Xylene	ND	ug/L	2.0	0.66	1		05/01/08 20:33	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		05/01/08 20:33	95-47-6	
4-Bromofluorobenzene (S)	103	%	87-109		1		05/01/08 20:33	460-00-4	
Dibromofluoromethane (S)	105	%	85-115		1		05/01/08 20:33	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	79-120		1		05/01/08 20:33	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		05/01/08 20:33	2037-26-5	

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ANALYTICAL RESULTS

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218382

Sample: MW-05 **Lab ID: 9218382005** Collected: 04/29/08 15:57 Received: 04/30/08 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	05/02/08 20:25	05/04/08 21:48	7440-36-0	
Arsenic	ND	ug/L	5.0	2.7	1	05/02/08 20:25	05/04/08 21:48	7440-38-2	
Barium	**764**	ug/L	5.0	0.20	1	05/02/08 20:25	05/04/08 21:48	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	05/02/08 20:25	05/04/08 21:48	7440-41-7	
Cadmium	**1.9**	ug/L	1.0	0.50	1	05/02/08 20:25	05/04/08 21:48	7440-43-9	
Chromium	**111**	ug/L	5.0	0.40	1	05/02/08 20:25	05/04/08 21:48	7440-47-3	
Cobalt	**54.5**	ug/L	5.0	0.60	1	05/02/08 20:25	05/04/08 21:48	7440-48-4	
Copper	**65.8**	ug/L	5.0	0.30	1	05/02/08 20:25	05/04/08 21:48	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	05/02/08 20:25	05/04/08 21:48	7439-92-1	
Nickel	**81.2**	ug/L	5.0	1.7	1	05/02/08 20:25	05/04/08 21:48	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	05/02/08 20:25	05/04/08 21:48	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	05/02/08 20:25	05/04/08 21:48	7440-22-4	
Vanadium	**93.9**	ug/L	5.0	0.20	1	05/02/08 20:25	05/04/08 21:48	7440-62-2	
Zinc	**130**	ug/L	10.0	0.40	1	05/02/08 20:25	05/04/08 21:48	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.090	1	05/13/08 09:30	05/13/08 14:26	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		05/01/08 20:56	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		05/01/08 20:56	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		05/01/08 20:56	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		05/01/08 20:56	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		05/01/08 20:56	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		05/01/08 20:56	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		05/01/08 20:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		05/01/08 20:56	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		05/01/08 20:56	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		05/01/08 20:56	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		05/01/08 20:56	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		05/01/08 20:56	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		05/01/08 20:56	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		05/01/08 20:56	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		05/01/08 20:56	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		05/01/08 20:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		05/01/08 20:56	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		05/01/08 20:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		05/01/08 20:56	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		05/01/08 20:56	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		05/01/08 20:56	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		05/01/08 20:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		05/01/08 20:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		05/01/08 20:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		05/01/08 20:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		05/01/08 20:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		05/01/08 20:56	78-87-5	

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ANALYTICAL RESULTS

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218382

Sample: MW-05 **Lab ID: 9218382005** Collected: 04/29/08 15:57 Received: 04/30/08 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		05/01/08 20:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/01/08 20:56	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		05/01/08 20:56	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		05/01/08 20:56	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		05/01/08 20:56	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		05/01/08 20:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		05/01/08 20:56	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		05/01/08 20:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		05/01/08 20:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		05/01/08 20:56	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		05/01/08 20:56	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		05/01/08 20:56	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		05/01/08 20:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		05/01/08 20:56	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		05/01/08 20:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		05/01/08 20:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		05/01/08 20:56	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		05/01/08 20:56	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		05/01/08 20:56	75-01-4	
m&p-Xylene	ND	ug/L	2.0	0.66	1		05/01/08 20:56	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		05/01/08 20:56	95-47-6	
4-Bromofluorobenzene (S)	102	%	87-109		1		05/01/08 20:56	460-00-4	
Dibromofluoromethane (S)	104	%	85-115		1		05/01/08 20:56	1868-53-7	
1,2-Dichloroethane-d4 (S)	110	%	79-120		1		05/01/08 20:56	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		05/01/08 20:56	2037-26-5	

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ANALYTICAL RESULTS

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218382

Sample: MW-07R **Lab ID: 9218382006** Collected: 04/29/08 12:51 Received: 04/30/08 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	05/02/08 20:25	05/04/08 21:52	7440-36-0	
Arsenic	**68.6**	ug/L	5.0	2.7	1	05/02/08 20:25	05/04/08 21:52	7440-38-2	
Barium	**2160**	ug/L	5.0	0.20	1	05/02/08 20:25	05/04/08 21:52	7440-39-3	
Beryllium	**1.6**	ug/L	1.0	0.10	1	05/02/08 20:25	05/04/08 21:52	7440-41-7	
Cadmium	**13.2**	ug/L	1.0	0.50	1	05/02/08 20:25	05/04/08 21:52	7440-43-9	
Chromium	**211**	ug/L	5.0	0.40	1	05/02/08 20:25	05/04/08 21:52	7440-47-3	
Cobalt	**64.9**	ug/L	5.0	0.60	1	05/02/08 20:25	05/04/08 21:52	7440-48-4	
Copper	**62.0**	ug/L	5.0	0.30	1	05/02/08 20:25	05/04/08 21:52	7440-50-8	
Lead	**27.8**	ug/L	5.0	4.0	1	05/02/08 20:25	05/04/08 21:52	7439-92-1	
Nickel	**87.5**	ug/L	5.0	1.7	1	05/02/08 20:25	05/04/08 21:52	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	05/02/08 20:25	05/04/08 21:52	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	05/02/08 20:25	05/04/08 21:52	7440-22-4	
Vanadium	**307**	ug/L	5.0	0.20	1	05/02/08 20:25	05/04/08 21:52	7440-62-2	
Zinc	**552**	ug/L	10.0	0.40	1	05/02/08 20:25	05/04/08 21:52	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.090	1	05/13/08 09:30	05/13/08 14:28	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		05/01/08 21:20	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		05/01/08 21:20	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		05/01/08 21:20	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		05/01/08 21:20	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		05/01/08 21:20	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		05/01/08 21:20	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		05/01/08 21:20	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		05/01/08 21:20	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		05/01/08 21:20	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		05/01/08 21:20	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		05/01/08 21:20	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		05/01/08 21:20	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		05/01/08 21:20	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		05/01/08 21:20	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		05/01/08 21:20	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		05/01/08 21:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		05/01/08 21:20	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		05/01/08 21:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		05/01/08 21:20	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		05/01/08 21:20	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		05/01/08 21:20	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		05/01/08 21:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		05/01/08 21:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		05/01/08 21:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		05/01/08 21:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		05/01/08 21:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		05/01/08 21:20	78-87-5	

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ANALYTICAL RESULTS

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218382

Sample: MW-07R **Lab ID: 9218382006** Collected: 04/29/08 12:51 Received: 04/30/08 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		05/01/08 21:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/01/08 21:20	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		05/01/08 21:20	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		05/01/08 21:20	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		05/01/08 21:20	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		05/01/08 21:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		05/01/08 21:20	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		05/01/08 21:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		05/01/08 21:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		05/01/08 21:20	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		05/01/08 21:20	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		05/01/08 21:20	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		05/01/08 21:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		05/01/08 21:20	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		05/01/08 21:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		05/01/08 21:20	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		05/01/08 21:20	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		05/01/08 21:20	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		05/01/08 21:20	75-01-4	
m&p-Xylene	ND	ug/L	2.0	0.66	1		05/01/08 21:20	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		05/01/08 21:20	95-47-6	
4-Bromofluorobenzene (S)	101	%	87-109		1		05/01/08 21:20	460-00-4	
Dibromofluoromethane (S)	105	%	85-115		1		05/01/08 21:20	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	%	79-120		1		05/01/08 21:20	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		05/01/08 21:20	2037-26-5	

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ANALYTICAL RESULTS

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218382

Sample: MW-08 **Lab ID: 9218382007** Collected: 04/29/08 11:55 Received: 04/30/08 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	05/02/08 20:25	05/04/08 21:56	7440-36-0	
Arsenic	ND	ug/L	5.0	2.7	1	05/02/08 20:25	05/04/08 21:56	7440-38-2	
Barium	**82.8**	ug/L	5.0	0.20	1	05/02/08 20:25	05/04/08 21:56	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	05/02/08 20:25	05/04/08 21:56	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	05/02/08 20:25	05/04/08 21:56	7440-43-9	
Chromium	**3.5J**	ug/L	5.0	0.40	1	05/02/08 20:25	05/04/08 21:56	7440-47-3	
Cobalt	**12.3**	ug/L	5.0	0.60	1	05/02/08 20:25	05/04/08 21:56	7440-48-4	
Copper	**7.2**	ug/L	5.0	0.30	1	05/02/08 20:25	05/04/08 21:56	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	05/02/08 20:25	05/04/08 21:56	7439-92-1	
Nickel	**9.9**	ug/L	5.0	1.7	1	05/02/08 20:25	05/04/08 21:56	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	05/02/08 20:25	05/04/08 21:56	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	05/02/08 20:25	05/04/08 21:56	7440-22-4	
Vanadium	**26.1**	ug/L	5.0	0.20	1	05/02/08 20:25	05/04/08 21:56	7440-62-2	
Zinc	**25.5**	ug/L	10.0	0.40	1	05/02/08 20:25	05/04/08 21:56	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.090	1	05/13/08 09:30	05/13/08 14:36	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		05/01/08 21:43	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		05/01/08 21:43	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		05/01/08 21:43	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		05/01/08 21:43	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		05/01/08 21:43	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		05/01/08 21:43	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		05/01/08 21:43	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		05/01/08 21:43	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		05/01/08 21:43	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		05/01/08 21:43	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		05/01/08 21:43	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		05/01/08 21:43	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		05/01/08 21:43	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		05/01/08 21:43	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		05/01/08 21:43	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		05/01/08 21:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		05/01/08 21:43	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		05/01/08 21:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		05/01/08 21:43	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		05/01/08 21:43	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		05/01/08 21:43	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		05/01/08 21:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		05/01/08 21:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		05/01/08 21:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		05/01/08 21:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		05/01/08 21:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		05/01/08 21:43	78-87-5	

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ANALYTICAL RESULTS

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218382

Sample: MW-08 **Lab ID: 9218382007** Collected: 04/29/08 11:55 Received: 04/30/08 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		05/01/08 21:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/01/08 21:43	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		05/01/08 21:43	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		05/01/08 21:43	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		05/01/08 21:43	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		05/01/08 21:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		05/01/08 21:43	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		05/01/08 21:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		05/01/08 21:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		05/01/08 21:43	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		05/01/08 21:43	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		05/01/08 21:43	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		05/01/08 21:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		05/01/08 21:43	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		05/01/08 21:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		05/01/08 21:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		05/01/08 21:43	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		05/01/08 21:43	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		05/01/08 21:43	75-01-4	
m&p-Xylene	ND	ug/L	2.0	0.66	1		05/01/08 21:43	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		05/01/08 21:43	95-47-6	
4-Bromofluorobenzene (S)	104	%	87-109		1		05/01/08 21:43	460-00-4	
Dibromofluoromethane (S)	107	%	85-115		1		05/01/08 21:43	1868-53-7	
1,2-Dichloroethane-d4 (S)	111	%	79-120		1		05/01/08 21:43	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		05/01/08 21:43	2037-26-5	

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ANALYTICAL RESULTS

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218382

Sample: MW-09 **Lab ID: 9218382008** Collected: 04/30/08 12:59 Received: 04/30/08 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	05/02/08 20:25	05/04/08 22:00	7440-36-0	
Arsenic	ND	ug/L	5.0	2.7	1	05/02/08 20:25	05/04/08 22:00	7440-38-2	
Barium	**1440**	ug/L	5.0	0.20	1	05/02/08 20:25	05/04/08 22:00	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	05/02/08 20:25	05/04/08 22:00	7440-41-7	
Cadmium	**5.5**	ug/L	1.0	0.50	1	05/02/08 20:25	05/04/08 22:00	7440-43-9	
Chromium	ND	ug/L	5.0	0.40	1	05/02/08 20:25	05/04/08 22:00	7440-47-3	
Cobalt	**66.8**	ug/L	5.0	0.60	1	05/02/08 20:25	05/04/08 22:00	7440-48-4	
Copper	**56.8**	ug/L	5.0	0.30	1	05/02/08 20:25	05/04/08 22:00	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	05/02/08 20:25	05/04/08 22:00	7439-92-1	
Nickel	**34.7**	ug/L	5.0	1.7	1	05/02/08 20:25	05/04/08 22:00	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	05/02/08 20:25	05/04/08 22:00	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	05/02/08 20:25	05/04/08 22:00	7440-22-4	
Vanadium	**201**	ug/L	5.0	0.20	1	05/02/08 20:25	05/04/08 22:00	7440-62-2	
Zinc	**282**	ug/L	10.0	0.40	1	05/02/08 20:25	05/04/08 22:00	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.090	1	05/13/08 09:30	05/13/08 14:38	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		05/01/08 22:06	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		05/01/08 22:06	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		05/01/08 22:06	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		05/01/08 22:06	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		05/01/08 22:06	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		05/01/08 22:06	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		05/01/08 22:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		05/01/08 22:06	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		05/01/08 22:06	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		05/01/08 22:06	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		05/01/08 22:06	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		05/01/08 22:06	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		05/01/08 22:06	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		05/01/08 22:06	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		05/01/08 22:06	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		05/01/08 22:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		05/01/08 22:06	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		05/01/08 22:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		05/01/08 22:06	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		05/01/08 22:06	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		05/01/08 22:06	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		05/01/08 22:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		05/01/08 22:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		05/01/08 22:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		05/01/08 22:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		05/01/08 22:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		05/01/08 22:06	78-87-5	

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ANALYTICAL RESULTS

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218382

Sample: MW-09 **Lab ID: 9218382008** Collected: 04/30/08 12:59 Received: 04/30/08 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		05/01/08 22:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/01/08 22:06	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		05/01/08 22:06	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		05/01/08 22:06	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		05/01/08 22:06	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		05/01/08 22:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		05/01/08 22:06	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		05/01/08 22:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		05/01/08 22:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		05/01/08 22:06	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		05/01/08 22:06	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		05/01/08 22:06	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		05/01/08 22:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		05/01/08 22:06	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		05/01/08 22:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		05/01/08 22:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		05/01/08 22:06	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		05/01/08 22:06	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		05/01/08 22:06	75-01-4	
m&p-Xylene	ND	ug/L	2.0	0.66	1		05/01/08 22:06	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		05/01/08 22:06	95-47-6	
4-Bromofluorobenzene (S)	100	%	87-109		1		05/01/08 22:06	460-00-4	
Dibromofluoromethane (S)	106	%	85-115		1		05/01/08 22:06	1868-53-7	
1,2-Dichloroethane-d4 (S)	111	%	79-120		1		05/01/08 22:06	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		05/01/08 22:06	2037-26-5	

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ANALYTICAL RESULTS

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218382

Sample: SW-01 **Lab ID: 9218382009** Collected: 04/29/08 16:20 Received: 04/30/08 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	05/02/08 20:25	05/04/08 22:04	7440-36-0	
Arsenic	ND	ug/L	5.0	2.7	1	05/02/08 20:25	05/04/08 22:04	7440-38-2	
Barium	**58.9**	ug/L	5.0	0.20	1	05/02/08 20:25	05/04/08 22:04	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	05/02/08 20:25	05/04/08 22:04	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	05/02/08 20:25	05/04/08 22:04	7440-43-9	
Chromium	**1.4J**	ug/L	5.0	0.40	1	05/02/08 20:25	05/04/08 22:04	7440-47-3	
Cobalt	**2.4J**	ug/L	5.0	0.60	1	05/02/08 20:25	05/04/08 22:04	7440-48-4	
Copper	ND	ug/L	5.0	0.30	1	05/02/08 20:25	05/04/08 22:04	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	05/02/08 20:25	05/04/08 22:04	7439-92-1	
Nickel	ND	ug/L	5.0	1.7	1	05/02/08 20:25	05/04/08 22:04	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	05/02/08 20:25	05/04/08 22:04	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	05/02/08 20:25	05/04/08 22:04	7440-22-4	
Vanadium	**2.2J**	ug/L	5.0	0.20	1	05/02/08 20:25	05/04/08 22:04	7440-62-2	
Zinc	**13.1**	ug/L	10.0	0.40	1	05/02/08 20:25	05/04/08 22:04	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.090	1	05/13/08 09:30	05/13/08 14:41	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		05/01/08 22:30	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		05/01/08 22:30	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		05/01/08 22:30	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		05/01/08 22:30	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		05/01/08 22:30	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		05/01/08 22:30	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		05/01/08 22:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		05/01/08 22:30	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		05/01/08 22:30	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		05/01/08 22:30	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		05/01/08 22:30	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		05/01/08 22:30	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		05/01/08 22:30	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		05/01/08 22:30	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		05/01/08 22:30	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		05/01/08 22:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		05/01/08 22:30	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		05/01/08 22:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		05/01/08 22:30	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		05/01/08 22:30	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		05/01/08 22:30	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		05/01/08 22:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		05/01/08 22:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		05/01/08 22:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		05/01/08 22:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		05/01/08 22:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		05/01/08 22:30	78-87-5	

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ANALYTICAL RESULTS

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218382

Sample: SW-01 **Lab ID: 9218382009** Collected: 04/29/08 16:20 Received: 04/30/08 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		05/01/08 22:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/01/08 22:30	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		05/01/08 22:30	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		05/01/08 22:30	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		05/01/08 22:30	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		05/01/08 22:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		05/01/08 22:30	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		05/01/08 22:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		05/01/08 22:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		05/01/08 22:30	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		05/01/08 22:30	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		05/01/08 22:30	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		05/01/08 22:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		05/01/08 22:30	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		05/01/08 22:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		05/01/08 22:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		05/01/08 22:30	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		05/01/08 22:30	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		05/01/08 22:30	75-01-4	
m&p-Xylene	ND	ug/L	2.0	0.66	1		05/01/08 22:30	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		05/01/08 22:30	95-47-6	
4-Bromofluorobenzene (S)	102	%	87-109		1		05/01/08 22:30	460-00-4	
Dibromofluoromethane (S)	106	%	85-115		1		05/01/08 22:30	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	79-120		1		05/01/08 22:30	17060-07-0	
Toluene-d8 (S)	101	%	70-120		1		05/01/08 22:30	2037-26-5	

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ANALYTICAL RESULTS

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218382

Sample: SW-02R **Lab ID: 9218382010** Collected: 04/29/08 11:13 Received: 04/30/08 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	05/02/08 20:25	05/04/08 22:08	7440-36-0	
Arsenic	ND	ug/L	5.0	2.7	1	05/02/08 20:25	05/04/08 22:08	7440-38-2	
Barium	**75.5**	ug/L	5.0	0.20	1	05/02/08 20:25	05/04/08 22:08	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	05/02/08 20:25	05/04/08 22:08	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	05/02/08 20:25	05/04/08 22:08	7440-43-9	
Chromium	**3.2J**	ug/L	5.0	0.40	1	05/02/08 20:25	05/04/08 22:08	7440-47-3	
Cobalt	**5.5**	ug/L	5.0	0.60	1	05/02/08 20:25	05/04/08 22:08	7440-48-4	
Copper	**1.5J**	ug/L	5.0	0.30	1	05/02/08 20:25	05/04/08 22:08	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	05/02/08 20:25	05/04/08 22:08	7439-92-1	
Nickel	**3.0J**	ug/L	5.0	1.7	1	05/02/08 20:25	05/04/08 22:08	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	05/02/08 20:25	05/04/08 22:08	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	05/02/08 20:25	05/04/08 22:08	7440-22-4	
Vanadium	**9.4**	ug/L	5.0	0.20	1	05/02/08 20:25	05/04/08 22:08	7440-62-2	
Zinc	**18.3**	ug/L	10.0	0.40	1	05/02/08 20:25	05/04/08 22:08	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.090	1	05/13/08 09:30	05/13/08 14:43	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		05/01/08 22:53	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		05/01/08 22:53	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		05/01/08 22:53	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		05/01/08 22:53	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		05/01/08 22:53	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		05/01/08 22:53	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		05/01/08 22:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		05/01/08 22:53	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		05/01/08 22:53	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		05/01/08 22:53	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		05/01/08 22:53	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		05/01/08 22:53	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		05/01/08 22:53	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		05/01/08 22:53	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		05/01/08 22:53	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		05/01/08 22:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		05/01/08 22:53	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		05/01/08 22:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		05/01/08 22:53	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		05/01/08 22:53	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		05/01/08 22:53	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		05/01/08 22:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		05/01/08 22:53	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		05/01/08 22:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		05/01/08 22:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		05/01/08 22:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		05/01/08 22:53	78-87-5	

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ANALYTICAL RESULTS

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218382

Sample: SW-02R **Lab ID: 9218382010** Collected: 04/29/08 11:13 Received: 04/30/08 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		05/01/08 22:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/01/08 22:53	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		05/01/08 22:53	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		05/01/08 22:53	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		05/01/08 22:53	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		05/01/08 22:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		05/01/08 22:53	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		05/01/08 22:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		05/01/08 22:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		05/01/08 22:53	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		05/01/08 22:53	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		05/01/08 22:53	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		05/01/08 22:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		05/01/08 22:53	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		05/01/08 22:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		05/01/08 22:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		05/01/08 22:53	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		05/01/08 22:53	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		05/01/08 22:53	75-01-4	
m&p-Xylene	ND	ug/L	2.0	0.66	1		05/01/08 22:53	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		05/01/08 22:53	95-47-6	
4-Bromofluorobenzene (S)	101	%	87-109		1		05/01/08 22:53	460-00-4	
Dibromofluoromethane (S)	108	%	85-115		1		05/01/08 22:53	1868-53-7	
1,2-Dichloroethane-d4 (S)	111	%	79-120		1		05/01/08 22:53	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		05/01/08 22:53	2037-26-5	

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ANALYTICAL RESULTS

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218382

Sample: Trip Blank (Operating) **Lab ID: 9218382011** Collected: 04/30/08 00:00 Received: 04/30/08 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	**3.9J**	ug/L	25.0	2.2	1		05/01/08 16:14	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		05/01/08 16:14	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		05/01/08 16:14	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		05/01/08 16:14	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		05/01/08 16:14	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		05/01/08 16:14	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		05/01/08 16:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		05/01/08 16:14	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		05/01/08 16:14	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		05/01/08 16:14	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		05/01/08 16:14	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		05/01/08 16:14	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		05/01/08 16:14	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		05/01/08 16:14	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		05/01/08 16:14	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		05/01/08 16:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		05/01/08 16:14	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		05/01/08 16:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		05/01/08 16:14	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		05/01/08 16:14	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		05/01/08 16:14	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		05/01/08 16:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		05/01/08 16:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		05/01/08 16:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		05/01/08 16:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		05/01/08 16:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		05/01/08 16:14	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		05/01/08 16:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/01/08 16:14	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		05/01/08 16:14	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		05/01/08 16:14	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		05/01/08 16:14	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		05/01/08 16:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		05/01/08 16:14	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		05/01/08 16:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		05/01/08 16:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		05/01/08 16:14	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		05/01/08 16:14	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		05/01/08 16:14	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		05/01/08 16:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		05/01/08 16:14	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		05/01/08 16:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		05/01/08 16:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		05/01/08 16:14	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		05/01/08 16:14	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		05/01/08 16:14	75-01-4	

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ANALYTICAL RESULTS

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218382

Sample: Trip Blank (Operating) **Lab ID: 9218382011** Collected: 04/30/08 00:00 Received: 04/30/08 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
m&p-Xylene	ND	ug/L	2.0	0.66	1		05/01/08 16:14	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		05/01/08 16:14	95-47-6	
4-Bromofluorobenzene (S)	102	%	87-109		1		05/01/08 16:14	460-00-4	
Dibromofluoromethane (S)	105	%	85-115		1		05/01/08 16:14	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	79-120		1		05/01/08 16:14	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		05/01/08 16:14	2037-26-5	

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QUALITY CONTROL DATA

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218382

QC Batch: MSV/3273 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 9218382001, 9218382002, 9218382003, 9218382004, 9218382005, 9218382006, 9218382007, 9218382008, 9218382009, 9218382010, 9218382011

METHOD BLANK: 108462
Associated Lab Samples: 9218382001, 9218382002, 9218382003, 9218382004, 9218382005, 9218382006, 9218382007, 9218382008, 9218382009, 9218382010, 9218382011

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	
1,1,1-Trichloroethane	ug/L	ND	1.0	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	
1,1,2-Trichloroethane	ug/L	ND	1.0	
1,1-Dichloroethane	ug/L	ND	1.0	
1,1-Dichloroethene	ug/L	ND	1.0	
1,2,3-Trichloropropane	ug/L	ND	1.0	
1,2-Dibromo-3-chloropropane	ug/L	ND	3.0	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	
1,2-Dichlorobenzene	ug/L	ND	1.0	
1,2-Dichloroethane	ug/L	ND	1.0	
1,2-Dichloropropane	ug/L	ND	1.0	
1,4-Dichlorobenzene	ug/L	ND	1.0	
2-Butanone (MEK)	ug/L	ND	5.0	
2-Hexanone	ug/L	ND	5.0	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	
Acetone	ug/L	ND	25.0	
Acrylonitrile	ug/L	ND	10.0	
Benzene	ug/L	ND	1.0	
Bromochloromethane	ug/L	ND	1.0	
Bromodichloromethane	ug/L	ND	1.0	
Bromoform	ug/L	ND	1.0	
Bromomethane	ug/L	ND	5.0	
Carbon disulfide	ug/L	ND	2.0	
Carbon tetrachloride	ug/L	ND	1.0	
Chlorobenzene	ug/L	ND	1.0	
Chloroethane	ug/L	ND	1.0	
Chloroform	ug/L	ND	1.0	
Chloromethane	ug/L	ND	1.0	
cis-1,2-Dichloroethene	ug/L	ND	1.0	
cis-1,3-Dichloropropene	ug/L	ND	1.0	
Dibromochloromethane	ug/L	ND	1.0	
Dibromomethane	ug/L	ND	1.0	
Ethylbenzene	ug/L	ND	1.0	
Iodomethane	ug/L	ND	5.0	
m&p-Xylene	ug/L	ND	2.0	
Methylene Chloride	ug/L	1.5J	2.0	
o-Xylene	ug/L	ND	1.0	
Styrene	ug/L	ND	1.0	
Tetrachloroethene	ug/L	ND	1.0	
Toluene	ug/L	ND	1.0	

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218382

METHOD BLANK: 108462

Associated Lab Samples: 9218382001, 9218382002, 9218382003, 9218382004, 9218382005, 9218382006, 9218382007, 9218382008, 9218382009, 9218382010, 9218382011

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
trans-1,2-Dichloroethene	ug/L	ND	1.0	
trans-1,3-Dichloropropene	ug/L	ND	1.0	
trans-1,4-Dichloro-2-butene	ug/L	ND	1.0	
Trichloroethene	ug/L	ND	1.0	
Trichlorofluoromethane	ug/L	ND	1.0	
Vinyl acetate	ug/L	ND	2.0	
Vinyl chloride	ug/L	ND	1.0	
1,2-Dichloroethane-d4 (S)	%	106	79-120	
4-Bromofluorobenzene (S)	%	103	87-109	
Dibromofluoromethane (S)	%	105	85-115	
Toluene-d8 (S)	%	101	70-120	

LABORATORY CONTROL SAMPLE: 108463

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.9	100	83-125	
1,1,1-Trichloroethane	ug/L	50	56.9	114	80-129	
1,1,2,2-Tetrachloroethane	ug/L	50	56.1	112	73-127	
1,1,2-Trichloroethane	ug/L	50	53.5	107	77-123	
1,1-Dichloroethane	ug/L	50	54.4	109	76-129	
1,1-Dichloroethene	ug/L	50	51.5	103	78-146	
1,2,3-Trichloropropane	ug/L	50	53.9	108	72-125	
1,2-Dibromo-3-chloropropane	ug/L	50	56.6	113	65-128	
1,2-Dibromoethane (EDB)	ug/L	50	56.0	112	81-125	
1,2-Dichlorobenzene	ug/L	50	48.4	97	82-126	
1,2-Dichloroethane	ug/L	50	52.4	105	72-126	
1,2-Dichloropropane	ug/L	50	52.3	105	80-127	
1,4-Dichlorobenzene	ug/L	50	52.4	105	79-125	
2-Butanone (MEK)	ug/L	100	112	112	50-134	
2-Hexanone	ug/L	100	121	121	58-138	
4-Methyl-2-pentanone (MIBK)	ug/L	100	110	110	70-131	
Acetone	ug/L	100	109	109	50-146	
Acrylonitrile	ug/L	250	223	89	66-124	
Benzene	ug/L	50	50.9	102	78-128	
Bromochloromethane	ug/L	50	50.2	100	73-124	
Bromodichloromethane	ug/L	50	55.3	111	81-125	
Bromoform	ug/L	50	48.0	96	71-125	
Bromomethane	ug/L	50	41.5	83	50-150	
Carbon disulfide	ug/L	50	51.2	102	54-150	
Carbon tetrachloride	ug/L	50	66.1	132	81-137	
Chlorobenzene	ug/L	50	51.0	102	82-126	
Chloroethane	ug/L	50	53.2	106	69-140	
Chloroform	ug/L	50	55.2	110	77-129	
Chloromethane	ug/L	50	48.3	97	54-139	

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QUALITY CONTROL DATA

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218382

LABORATORY CONTROL SAMPLE: 108463

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	53.3	107	76-133	
cis-1,3-Dichloropropene	ug/L	50	56.0	112	76-127	
Dibromochloromethane	ug/L	50	49.9	100	77-125	
Dibromomethane	ug/L	50	49.3	99	77-125	
Ethylbenzene	ug/L	50	51.5	103	80-127	
Iodomethane	ug/L	100	88.4	88	65-172	
m&p-Xylene	ug/L	100	104	104	82-127	
Methylene Chloride	ug/L	50	51.0	102	67-133	
o-Xylene	ug/L	50	53.3	107	83-124	
Styrene	ug/L	50	53.8	108	80-130	
Tetrachloroethene	ug/L	50	49.8	100	78-128	
Toluene	ug/L	50	51.3	103	76-126	
trans-1,2-Dichloroethene	ug/L	50	53.8	108	78-134	
trans-1,3-Dichloropropene	ug/L	50	51.1	102	75-125	
trans-1,4-Dichloro-2-butene	ug/L	50	64.7	129	51-140	
Trichloroethene	ug/L	50	51.5	103	79-127	
Trichlorofluoromethane	ug/L	50	52.8	106	76-148	
Vinyl acetate	ug/L	100	154	154	50-150	L3
Vinyl chloride	ug/L	50	51.0	102	67-143	
1,2-Dichloroethane-d4 (S)	%			104	79-120	
4-Bromofluorobenzene (S)	%			103	87-109	
Dibromofluoromethane (S)	%			106	85-115	
Toluene-d8 (S)	%			100	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 108464 108465

Parameter	Units	9218380001 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	<0.56	50	50	74.6	74.4	149	149	60-150	.2	30	
Benzene	ug/L	<0.25	50	50	66.8	67.3	134	135	74-136	.7	30	
Chlorobenzene	ug/L	<0.23	50	50	63.8	66.5	128	133	79-135	4	30	
Toluene	ug/L	<0.26	50	50	65.7	66.4	131	133	73-131	1	30	M1
Trichloroethene	ug/L	<0.47	50	50	64.9	65.2	130	130	73-131	.3	30	
1,2-Dichloroethane-d4 (S)	%						107	109	79-120			
4-Bromofluorobenzene (S)	%						101	102	87-109			
Dibromofluoromethane (S)	%						104	103	85-115			
Toluene-d8 (S)	%						101	98	70-120			

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QUALITY CONTROL DATA

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218382

QC Batch: MPRP/2282 — Analysis Method: EPA 6010 GW North Carolina
QC Batch Method: EPA 3010 — Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 9218382001, 9218382002, 9218382003, 9218382004, 9218382005, 9218382006, 9218382007, 9218382008, 9218382009, 9218382010

METHOD BLANK: 108985
Associated Lab Samples: 9218382001, 9218382002, 9218382003, 9218382004, 9218382005, 9218382006, 9218382007, 9218382008, 9218382009, 9218382010

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Antimony	ug/L	ND	5.0	
Arsenic	ug/L	ND	5.0	
Barium	ug/L	ND	5.0	
Beryllium	ug/L	ND	1.0	
Cadmium	ug/L	ND	1.0	
Chromium	ug/L	ND	5.0	
Cobalt	ug/L	1.5J	5.0	
Copper	ug/L	ND	5.0	
Lead	ug/L	ND	5.0	
Nickel	ug/L	ND	5.0	
Selenium	ug/L	ND	10.0	
Silver	ug/L	0.11J	5.0	
Vanadium	ug/L	ND	5.0	
Zinc	ug/L	2.5J	10.0	

LABORATORY CONTROL SAMPLE: 108986

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	499	100	80-120	
Arsenic	ug/L	500	503	101	80-120	
Barium	ug/L	500	494	99	80-120	
Beryllium	ug/L	500	503	101	80-120	
Cadmium	ug/L	500	515	103	80-120	
Chromium	ug/L	500	516	103	80-120	
Cobalt	ug/L	500	510	102	80-120	
Copper	ug/L	500	485	97	80-120	
Lead	ug/L	500	515	103	80-120	
Nickel	ug/L	500	513	103	80-120	
Selenium	ug/L	500	496	99	80-120	
Silver	ug/L	250	246	98	80-120	
Vanadium	ug/L	500	497	99	80-120	
Zinc	ug/L	500	514	103	80-120	

MATRIX SPIKE SAMPLE: 108988

Parameter	Units	9217935002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	479	96	75-125	
Arsenic	ug/L	ND	500	484	97	75-125	

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QUALITY CONTROL DATA

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218382

MATRIX SPIKE SAMPLE: 108988

Parameter	Units	9217935002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	0.28J	500	470	94	75-125	
Beryllium	ug/L	0.50J	500	483	96	75-125	
Cadmium	ug/L	0.85J	500	493	98	75-125	
Chromium	ug/L	ND	500	494	99	75-125	
Cobalt	ug/L	1.2J	500	487	97	75-125	
Copper	ug/L	ND	500	465	93	75-125	
Lead	ug/L	ND	500	489	98	75-125	
Nickel	ug/L	8.1	500	491	97	75-125	
Selenium	ug/L	7.8J	500	476	94	75-125	
Silver	ug/L	0.13J	250	235	94	75-125	
Vanadium	ug/L	ND	500	477	95	75-125	
Zinc	ug/L	24.7	500	514	98	75-125	

SAMPLE DUPLICATE: 108987

Parameter	Units	9217935002 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND	0	25	
Arsenic	ug/L	ND	ND	200	25	
Barium	ug/L	0.28J	ND	72	25	
Beryllium	ug/L	0.50J	0.49J	2	25	
Cadmium	ug/L	0.85J	0.80J	5	25	
Chromium	ug/L	ND	ND	133	25	
Cobalt	ug/L	1.2J	ND	64	25	
Copper	ug/L	ND	ND	0	25	
Lead	ug/L	ND	ND	174	25	
Nickel	ug/L	8.1	2.7J	101	25	
Selenium	ug/L	7.8J	ND	104	25	
Silver	ug/L	0.13J	0.12J	6	25	
Vanadium	ug/L	ND	ND	200	25	
Zinc	ug/L	24.7	25.3	2	25	

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QUALITY CONTROL DATA

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218382

QC Batch: MERP/1471 — Analysis Method: EPA 7470
QC Batch Method: EPA 7470 — Analysis Description: 7470 Mercury
Associated Lab Samples: 9218382001, 9218382002, 9218382003, 9218382004, 9218382005, 9218382006, 9218382007, 9218382008, 9218382009, 9218382010

METHOD BLANK: 112847
Associated Lab Samples: 9218382001, 9218382002, 9218382003, 9218382004, 9218382005, 9218382006, 9218382007, 9218382008, 9218382009, 9218382010

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ug/L	ND	0.20	

LABORATORY CONTROL SAMPLE: 112848

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.4	97	80-120	

MATRIX SPIKE SAMPLE: 112849

Parameter	Units	9218382001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	2.5	1.9	75	75-125	

SAMPLE DUPLICATE: 112850

Parameter	Units	9218382002 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury	ug/L	ND	ND	33	25	R3

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QUALIFIERS

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218382

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.

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.

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LABORATORIES

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

ANALYTE QUALIFIERS

L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R3	RPD value was outside control limits due to uncertainty of values at or near the PRL.

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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

1178383

Section A Required Client Information:

Company: Altamont Environmental
Address: 50 College St
Asheville, NC 28801
Email To: jlenk@altamontenvironmental.com
Phone: 281-3350 Fax: 281-3351
Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: Joel Lenk
Copy To:
Purchase Order No.:
Project Name: Madison County Operating Landfill
Project Number: 2006.1202

Section C Invoice Information:

Attention: Judith Robertson
Company Name: Altamont
Address: Same
Pace Quote Reference:
Pace Project Manager: Lorri Patton
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	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	App I Metals 6010	App I Thallium	App I VOC 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-01	WT	G			4-29	10:26	11	5			2	3					X	X	X		9218382001
2	MW-02	WT	G			4-29	9:34	10	5			2	3					X	X	X		-002
3	MW-03	WT	G			4-29	13:53	14	5			2	3					X	X	X		-003
4	MW-04	WT	G			4-29	15:01	15	5			2	3					X	X	X		-004
5	MW-05	WT	G			4-29	15:57	13	5			2	3					X	X	X		-005
6	MW-07R	WT	G			4-29	12:51	14	5			2	3					X	X	X		-006
7	MW-08	WT	G			4-29	11:55	13	5			2	3					X	X	X		-007
8	MW-09	WT	G			4-30	12:59	13	5			2	3					X	X	X		-008
9	SW-01	WT	G			4-29	16:20	14	5			2	3					X	X	X		-009
10	SW-02R	WT	G			4-29	11:13	11	5			2	3					X	X	X		-010
11	TRIP BLANK	WT	—	LAB					2				2							X		-011
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
VOC by 8260 low level	Jon Hazinski	4-30-08	1525	[signature]	4/30/08	15:25	3.3	Y	N	Y
All analytical results									
need to include MDL									
and qualifiers if applicable									

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Jon Hazinski
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 4-30-08

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

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May 16, 2008

Client Services
Pace Analytical Ashville
2225 Riverside Dr.
Asheville, NC 28804

RE: Project: 9218382 ALTAMONT
Pace Project No.: 1072540

Dear Client Services:
Enclosed are the analytical results for sample(s) received by the laboratory on April 30, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Sylvia Hunter

sylvia.hunter@pacelabs.com
Project Manager

Florida (Nelap) Certification #: E87605
Illinois Certification #: 200011
Iowa Certification #: 368
Minnesota Certification #: 027-053-137
Wisconsin Certification #: 999407970

Enclosures

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SAMPLE SUMMARY

Project: 9218382 ALTAMONT
Pace Project No.: 1072540

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9218382001	MW-01	Water	04/29/08 10:26	04/30/08 15:25
9218382002	MW-02	Water	04/29/08 09:34	04/30/08 15:25
9218382003	MW-03	Water	04/29/08 13:53	04/30/08 15:25
9218382004	MW-04	Water	04/29/08 15:01	04/30/08 15:25
9218382005	MW-05	Water	04/29/08 15:57	04/30/08 15:25
9218382006	MW-07R	Water	04/29/08 12:51	04/30/08 15:25
9218382007	MW-08	Water	04/29/08 11:55	04/30/08 15:25
9218382008	MW-09	Water	04/30/08 12:59	04/30/08 15:25
9218382009	SW-01	Water	04/29/08 16:20	04/30/08 15:25
9218382010	SW-02R	Water	04/29/08 11:13	04/30/08 15:25

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SAMPLE ANALYTE COUNT

Project: 9218382 ALTAMONT
Pace Project No.: 1072540

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9218382001	MW-01	EPA 200.8	RJS	1	PASI-M
9218382002	MW-02	EPA 200.8	RJS	1	PASI-M
9218382003	MW-03	EPA 200.8	RJS	1	PASI-M
9218382004	MW-04	EPA 200.8	RJS	1	PASI-M
9218382005	MW-05	EPA 200.8	RJS	1	PASI-M
9218382006	MW-07R	EPA 200.8	RJS	1	PASI-M
9218382007	MW-08	EPA 200.8	RJS	1	PASI-M
9218382008	MW-09	EPA 200.8	RJS	1	PASI-M
9218382009	SW-01	EPA 200.8	RJS	1	PASI-M
9218382010	SW-02R	EPA 200.8	RJS	1	PASI-M

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PROJECT NARRATIVE

Project:
Pace Project No.:

Method:
Description:
Client:
Date:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 9218382 ALTAMONT
Pace Project No.: 1072540

Sample: MW-01 **Lab ID: 9218382001** Collected: 04/29/08 10:26 Received: 04/30/08 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Thallium	ND	ug/L	1.0	0.050	1	05/09/08 09:34	05/09/08 19:43	7440-28-0	

Sample: MW-02 **Lab ID: 9218382002** Collected: 04/29/08 09:34 Received: 04/30/08 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Thallium	ND	ug/L	1.0	0.050	1	05/09/08 09:34	05/09/08 19:47	7440-28-0	

Sample: MW-03 **Lab ID: 9218382003** Collected: 04/29/08 13:53 Received: 04/30/08 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Thallium	**0.054J**	ug/L	1.0	0.050	1	05/09/08 09:34	05/09/08 19:51	7440-28-0	

Sample: MW-04 **Lab ID: 9218382004** Collected: 04/29/08 15:01 Received: 04/30/08 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Thallium	ND	ug/L	1.0	0.050	1	05/09/08 09:34	05/09/08 19:55	7440-28-0	

Sample: MW-05 **Lab ID: 9218382005** Collected: 04/29/08 15:57 Received: 04/30/08 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Thallium	ND	ug/L	1.0	0.050	1	05/09/08 09:34	05/09/08 20:00	7440-28-0	

Sample: MW-07R **Lab ID: 9218382006** Collected: 04/29/08 12:51 Received: 04/30/08 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Thallium	ND	ug/L	1.0	0.050	1	05/09/08 09:34	05/09/08 20:04	7440-28-0	

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ANALYTICAL RESULTS

Project: 9218382 ALTAMONT
Pace Project No.: 1072540

Sample: MW-08 **Lab ID: 9218382007** Collected: 04/29/08 11:55 Received: 04/30/08 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Thallium	**0.052J**	ug/L	1.0	0.050	1	05/09/08 09:34	05/09/08 20:08	7440-28-0	

Sample: MW-09 **Lab ID: 9218382008** Collected: 04/30/08 12:59 Received: 04/30/08 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Thallium	ND	ug/L	1.0	0.050	1	05/09/08 09:34	05/09/08 20:12	7440-28-0	

Sample: SW-01 **Lab ID: 9218382009** Collected: 04/29/08 16:20 Received: 04/30/08 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Thallium	ND	ug/L	1.0	0.050	1	05/09/08 09:34	05/09/08 20:16	7440-28-0	

Sample: SW-02R **Lab ID: 9218382010** Collected: 04/29/08 11:13 Received: 04/30/08 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Thallium	ND	ug/L	1.0	0.050	1	05/09/08 09:34	05/09/08 20:36	7440-28-0	

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QUALITY CONTROL DATA

Project: 9218382 ALTAMONT
Pace Project No.: 1072540

QC Batch: MPRP/12053 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET
Associated Lab Samples: 9218382001, 9218382002, 9218382003, 9218382004, 9218382005, 9218382006, 9218382007, 9218382008, 9218382009, 9218382010

METHOD BLANK: 473792
Associated Lab Samples: 9218382001, 9218382002, 9218382003, 9218382004, 9218382005, 9218382006, 9218382007, 9218382008, 9218382009, 9218382010

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Thallium	ug/L	ND	1.0	

LABORATORY CONTROL SAMPLE: 473793

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Thallium	ug/L	80	81.3	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 473794 473795

Parameter	Units	1072383001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Thallium	ug/L		80	80	76.5	76.4	96	95	70-130	.2	20	

MATRIX SPIKE SAMPLE: 473796

Parameter	Units	9218383001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Thallium	ug/L	ND	80	78.2	98	70-130	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 9218382 ALTAMONT
Pace Project No.: 1072540

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.

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.

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LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 9218382 ALTAMONT
Pace Project No.: 1072540

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
9218382001	MW-01	EPA 200.8	MPRP/12053	EPA 200.8	ICPM/4756
9218382002	MW-02	EPA 200.8	MPRP/12053	EPA 200.8	ICPM/4756
9218382003	MW-03	EPA 200.8	MPRP/12053	EPA 200.8	ICPM/4756
9218382004	MW-04	EPA 200.8	MPRP/12053	EPA 200.8	ICPM/4756
9218382005	MW-05	EPA 200.8	MPRP/12053	EPA 200.8	ICPM/4756
9218382006	MW-07R	EPA 200.8	MPRP/12053	EPA 200.8	ICPM/4756
9218382007	MW-08	EPA 200.8	MPRP/12053	EPA 200.8	ICPM/4756
9218382008	MW-09	EPA 200.8	MPRP/12053	EPA 200.8	ICPM/4756
9218382009	SW-01	EPA 200.8	MPRP/12053	EPA 200.8	ICPM/4756
9218382010	SW-02R	EPA 200.8	MPRP/12053	EPA 200.8	ICPM/4756

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(704)875-9092

June 02, 2008

Mr. Joel Lenk
Altamont Environmental
50 College Street
Asheville, NC 28801

RE: Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218383

Dear Mr. Lenk:
Enclosed are the analytical results for sample(s) received by the laboratory on April 30, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

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.Operating 2006.1202
Pace Project No.: 9218383

Charlotte Certification IDs

Florida/NELAP Certification Number: E87627
Kansas Certification Number: E-10364
Louisiana/LELAP Certification Number: 04034
North Carolina Drinking Water Certification Number: 37706
North Carolina Wastewater Certification Number: 12
North Carolina Field Services Certification Number: 5342
South Carolina Certification Number: 990060001
South Carolina Bioassay Certification Number: 990060003
Tennessee Certification Number: 04010
Virginia Certification Number: 00213

Asheville Certification IDs

Florida/NELAP Certification Number: E87648
Louisiana/LELAP Certification Number: 03095
New Jersey Certification Number: NC011
North Carolina Drinking Water Certification Number: 37712
North Carolina Wastewater Certification Number: 40
North Carolina Bioassay Certification Number: 9
Pennsylvania Certification Number: 68-03578
South Carolina Certification Number: 99030001
South Carolina Bioassay Certification Number: 99030002
Tennessee Certification Number: 2980
Virginia Certification Number: 00072

Eden Certification IDs

North Carolina Drinking Water Certification Number: 37738
Virginia Drinking Water Certification Number: 00424
North Carolina Wastewater Certification Number: 633

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SAMPLE SUMMARY

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218383

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9218383001	**LP-1**	Water	04/30/08 12:21	04/30/08 15:25

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SAMPLE ANALYTE COUNT

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218383

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9218383001	LP-1	ASTM D516-90	RAB	1	PASI-A
		EPA 353.2	RAB	1	PASI-A
		EPA 365.1	DMN	1	PASI-A
		EPA 6010 GW North Carolina	JMW	14	PASI-A
		EPA 7470	EWS	1	PASI-A
		EPA 8260	MCK	52	PASI-C
		SM 5210B	JDA	1	PASI-A
		SM 5220D	SAJ	1	PASI-A

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ANALYTICAL RESULTS

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218383

Sample: LP-1 **Lab ID: 9218383001** Collected: 04/30/08 12:21 Received: 04/30/08 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	05/02/08 20:25	05/04/08 22:12	7440-36-0	
Arsenic	ND	ug/L	5.0	2.7	1	05/02/08 20:25	05/04/08 22:12	7440-38-2	
Barium	**77.6**	ug/L	5.0	0.20	1	05/02/08 20:25	05/04/08 22:12	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	05/02/08 20:25	05/04/08 22:12	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	05/02/08 20:25	05/04/08 22:12	7440-43-9	
Chromium	**5.7**	ug/L	5.0	0.40	1	05/02/08 20:25	05/04/08 22:12	7440-47-3	
Cobalt	**9.0**	ug/L	5.0	0.60	1	05/02/08 20:25	05/04/08 22:12	7440-48-4	
Copper	**2.5J**	ug/L	5.0	0.30	1	05/02/08 20:25	05/04/08 22:12	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	05/02/08 20:25	05/04/08 22:12	7439-92-1	
Nickel	**23.7**	ug/L	5.0	1.7	1	05/02/08 20:25	05/04/08 22:12	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	05/02/08 20:25	05/04/08 22:12	7782-49-2	
Silver	**0.27J**	ug/L	5.0	0.10	1	05/02/08 20:25	05/04/08 22:12	7440-22-4	
Vanadium	**4.7J**	ug/L	5.0	0.20	1	05/02/08 20:25	05/04/08 22:12	7440-62-2	
Zinc	**238**	ug/L	10.0	0.40	1	05/02/08 20:25	05/04/08 22:12	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.090	1	05/13/08 09:30	05/13/08 14:46	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	**4.6J**	ug/L	25.0	2.2	1		05/01/08 23:17	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		05/01/08 23:17	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		05/01/08 23:17	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		05/01/08 23:17	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		05/01/08 23:17	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		05/01/08 23:17	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		05/01/08 23:17	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		05/01/08 23:17	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		05/01/08 23:17	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		05/01/08 23:17	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		05/01/08 23:17	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		05/01/08 23:17	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		05/01/08 23:17	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		05/01/08 23:17	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		05/01/08 23:17	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		05/01/08 23:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		05/01/08 23:17	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		05/01/08 23:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		05/01/08 23:17	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		05/01/08 23:17	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		05/01/08 23:17	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		05/01/08 23:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		05/01/08 23:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		05/01/08 23:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		05/01/08 23:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		05/01/08 23:17	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		05/01/08 23:17	78-87-5	

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ANALYTICAL RESULTS

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218383

Sample: LP-1 **Lab ID: 9218383001** Collected: 04/30/08 12:21 Received: 04/30/08 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		05/01/08 23:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/01/08 23:17	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		05/01/08 23:17	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		05/01/08 23:17	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		05/01/08 23:17	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		05/01/08 23:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		05/01/08 23:17	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		05/01/08 23:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		05/01/08 23:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		05/01/08 23:17	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		05/01/08 23:17	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		05/01/08 23:17	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		05/01/08 23:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		05/01/08 23:17	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		05/01/08 23:17	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		05/01/08 23:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		05/01/08 23:17	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		05/01/08 23:17	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		05/01/08 23:17	75-01-4	
m&p-Xylene	ND	ug/L	2.0	0.66	1		05/01/08 23:17	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		05/01/08 23:17	95-47-6	
4-Bromofluorobenzene (S)	101	%	87-109		1		05/01/08 23:17	460-00-4	
Dibromofluoromethane (S)	105	%	85-115		1		05/01/08 23:17	1868-53-7	
1,2-Dichloroethane-d4 (S)	109	%	79-120		1		05/01/08 23:17	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		05/01/08 23:17	2037-26-5	
5210B BOD, Low Level	Analytical Method: SM 5210B								
BOD, 5 day	**21.7**	mg/L	2.0		1	05/01/08 08:10	05/06/08 09:45		
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**5.4**	mg/L	0.10	0.10	1		04/30/08 22:45		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1								
Phosphorus	**0.49**	mg/L	0.10	0.10	1		05/06/08 22:54	7723-14-0	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	**314**	mg/L	25.0	25.0	1		05/09/08 11:47		
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-90								
Sulfate	**11.3**	mg/L	5.0	5.0	1		05/06/08 15:38	14808-79-8	

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QUALITY CONTROL DATA

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218383

QC Batch: WETA/2586
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 9218383001

METHOD BLANK: 108182
Associated Lab Samples: 9218383001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	

LABORATORY CONTROL SAMPLE: 108183

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	5	5.3	105	90-110	

MATRIX SPIKE SAMPLE: 108184

Parameter	Units	9218306001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	19.5	5	26.6	142	90-110	M0

MATRIX SPIKE SAMPLE: 108186

Parameter	Units	9218312012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.25	5	7.9	153	90-110	M0

SAMPLE DUPLICATE: 108185

Parameter	Units	9218312002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	ND	ND	0	20	

SAMPLE DUPLICATE: 108187

Parameter	Units	9218383001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	5.4	5.4	.2	20	

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QUALITY CONTROL DATA

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218383

QC Batch: WET/3857
QC Batch Method: SM 5210B
Analysis Method: SM 5210B
Analysis Description: 5210B BOD, Low Level
Associated Lab Samples: 9218383001

METHOD BLANK: 108193
Associated Lab Samples: 9218383001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
BOD, 5 day	mg/L	0.0J	2.0	

LABORATORY CONTROL SAMPLE: 108194

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	178	90	84-115	

SAMPLE DUPLICATE: 108195

Parameter	Units	9218252001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	42.6	42.0	1	20	

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QUALITY CONTROL DATA

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218383

QC Batch: MSV/3273
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 9218383001

METHOD BLANK: 108462
Associated Lab Samples: 9218383001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	
1,1,1-Trichloroethane	ug/L	ND	1.0	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	
1,1,2-Trichloroethane	ug/L	ND	1.0	
1,1-Dichloroethane	ug/L	ND	1.0	
1,1-Dichloroethene	ug/L	ND	1.0	
1,2,3-Trichloropropane	ug/L	ND	1.0	
1,2-Dibromo-3-chloropropane	ug/L	ND	3.0	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	
1,2-Dichlorobenzene	ug/L	ND	1.0	
1,2-Dichloroethane	ug/L	ND	1.0	
1,2-Dichloropropane	ug/L	ND	1.0	
1,4-Dichlorobenzene	ug/L	ND	1.0	
2-Butanone (MEK)	ug/L	ND	5.0	
2-Hexanone	ug/L	ND	5.0	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	
Acetone	ug/L	ND	25.0	
Acrylonitrile	ug/L	ND	10.0	
Benzene	ug/L	ND	1.0	
Bromochloromethane	ug/L	ND	1.0	
Bromodichloromethane	ug/L	ND	1.0	
Bromoform	ug/L	ND	1.0	
Bromomethane	ug/L	ND	5.0	
Carbon disulfide	ug/L	ND	2.0	
Carbon tetrachloride	ug/L	ND	1.0	
Chlorobenzene	ug/L	ND	1.0	
Chloroethane	ug/L	ND	1.0	
Chloroform	ug/L	ND	1.0	
Chloromethane	ug/L	ND	1.0	
cis-1,2-Dichloroethene	ug/L	ND	1.0	
cis-1,3-Dichloropropene	ug/L	ND	1.0	
Dibromochloromethane	ug/L	ND	1.0	
Dibromomethane	ug/L	ND	1.0	
Ethylbenzene	ug/L	ND	1.0	
Iodomethane	ug/L	ND	5.0	
m&p-Xylene	ug/L	ND	2.0	
Methylene Chloride	ug/L	1.5J	2.0	
o-Xylene	ug/L	ND	1.0	
Styrene	ug/L	ND	1.0	
Tetrachloroethene	ug/L	ND	1.0	
Toluene	ug/L	ND	1.0	
trans-1,2-Dichloroethene	ug/L	ND	1.0	
trans-1,3-Dichloropropene	ug/L	ND	1.0	

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QUALITY CONTROL DATA

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218383

METHOD BLANK: 108462
Associated Lab Samples: 9218383001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
trans-1,4-Dichloro-2-butene	ug/L	ND	1.0	
Trichloroethene	ug/L	ND	1.0	
Trichlorofluoromethane	ug/L	ND	1.0	
Vinyl acetate	ug/L	ND	2.0	
Vinyl chloride	ug/L	ND	1.0	
1,2-Dichloroethane-d4 (S)	%	106	79-120	
4-Bromofluorobenzene (S)	%	103	87-109	
Dibromofluoromethane (S)	%	105	85-115	
Toluene-d8 (S)	%	101	70-120	

LABORATORY CONTROL SAMPLE: 108463

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.9	100	83-125	
1,1,1-Trichloroethane	ug/L	50	56.9	114	80-129	
1,1,2,2-Tetrachloroethane	ug/L	50	56.1	112	73-127	
1,1,2-Trichloroethane	ug/L	50	53.5	107	77-123	
1,1-Dichloroethane	ug/L	50	54.4	109	76-129	
1,1-Dichloroethene	ug/L	50	51.5	103	78-146	
1,2,3-Trichloropropane	ug/L	50	53.9	108	72-125	
1,2-Dibromo-3-chloropropane	ug/L	50	56.6	113	65-128	
1,2-Dibromoethane (EDB)	ug/L	50	56.0	112	81-125	
1,2-Dichlorobenzene	ug/L	50	48.4	97	82-126	
1,2-Dichloroethane	ug/L	50	52.4	105	72-126	
1,2-Dichloropropane	ug/L	50	52.3	105	80-127	
1,4-Dichlorobenzene	ug/L	50	52.4	105	79-125	
2-Butanone (MEK)	ug/L	100	112	112	50-134	
2-Hexanone	ug/L	100	121	121	58-138	
4-Methyl-2-pentanone (MIBK)	ug/L	100	110	110	70-131	
Acetone	ug/L	100	109	109	50-146	
Acrylonitrile	ug/L	250	223	89	66-124	
Benzene	ug/L	50	50.9	102	78-128	
Bromochloromethane	ug/L	50	50.2	100	73-124	
Bromodichloromethane	ug/L	50	55.3	111	81-125	
Bromoform	ug/L	50	48.0	96	71-125	
Bromomethane	ug/L	50	41.5	83	50-150	
Carbon disulfide	ug/L	50	51.2	102	54-150	
Carbon tetrachloride	ug/L	50	66.1	132	81-137	
Chlorobenzene	ug/L	50	51.0	102	82-126	
Chloroethane	ug/L	50	53.2	106	69-140	
Chloroform	ug/L	50	55.2	110	77-129	
Chloromethane	ug/L	50	48.3	97	54-139	
cis-1,2-Dichloroethene	ug/L	50	53.3	107	76-133	
cis-1,3-Dichloropropene	ug/L	50	56.0	112	76-127	
Dibromochloromethane	ug/L	50	49.9	100	77-125	

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QUALITY CONTROL DATA

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218383

LABORATORY CONTROL SAMPLE: 108463

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromomethane	ug/L	50	49.3	99	77-125	
Ethylbenzene	ug/L	50	51.5	103	80-127	
Iodomethane	ug/L	100	88.4	88	65-172	
m&p-Xylene	ug/L	100	104	104	82-127	
Methylene Chloride	ug/L	50	51.0	102	67-133	
o-Xylene	ug/L	50	53.3	107	83-124	
Styrene	ug/L	50	53.8	108	80-130	
Tetrachloroethene	ug/L	50	49.8	100	78-128	
Toluene	ug/L	50	51.3	103	76-126	
trans-1,2-Dichloroethene	ug/L	50	53.8	108	78-134	
trans-1,3-Dichloropropene	ug/L	50	51.1	102	75-125	
trans-1,4-Dichloro-2-butene	ug/L	50	64.7	129	51-140	
Trichloroethene	ug/L	50	51.5	103	79-127	
Trichlorofluoromethane	ug/L	50	52.8	106	76-148	
Vinyl acetate	ug/L	100	154	154	50-150	L3
Vinyl chloride	ug/L	50	51.0	102	67-143	
1,2-Dichloroethane-d4 (S)	%			104	79-120	
4-Bromofluorobenzene (S)	%			103	87-109	
Dibromofluoromethane (S)	%			106	85-115	
Toluene-d8 (S)	%			100	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 108464 108465

Parameter	Units	9218380001 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	<0.56	50	50	74.6	74.4	149	149	60-150	.2	30	
Benzene	ug/L	<0.25	50	50	66.8	67.3	134	135	74-136	.7	30	
Chlorobenzene	ug/L	<0.23	50	50	63.8	66.5	128	133	79-135	4	30	
Toluene	ug/L	<0.26	50	50	65.7	66.4	131	133	73-131	1	30	M1
Trichloroethene	ug/L	<0.47	50	50	64.9	65.2	130	130	73-131	.3	30	
1,2-Dichloroethane-d4 (S)	%						107	109	79-120			
4-Bromofluorobenzene (S)	%						101	102	87-109			
Dibromofluoromethane (S)	%						104	103	85-115			
Toluene-d8 (S)	%						101	98	70-120			

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QUALITY CONTROL DATA

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218383

QC Batch: MPRP/2282
QC Batch Method: EPA 3010
Analysis Method: EPA 6010 GW North Carolina
Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 9218383001

METHOD BLANK: 108985
Associated Lab Samples: 9218383001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Antimony	ug/L	ND	5.0	
Arsenic	ug/L	ND	5.0	
Barium	ug/L	ND	5.0	
Beryllium	ug/L	ND	1.0	
Cadmium	ug/L	ND	1.0	
Chromium	ug/L	ND	5.0	
Cobalt	ug/L	1.5J	5.0	
Copper	ug/L	ND	5.0	
Lead	ug/L	ND	5.0	
Nickel	ug/L	ND	5.0	
Selenium	ug/L	ND	10.0	
Silver	ug/L	0.11J	5.0	
Vanadium	ug/L	ND	5.0	
Zinc	ug/L	2.5J	10.0	

LABORATORY CONTROL SAMPLE: 108986

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	499	100	80-120	
Arsenic	ug/L	500	503	101	80-120	
Barium	ug/L	500	494	99	80-120	
Beryllium	ug/L	500	503	101	80-120	
Cadmium	ug/L	500	515	103	80-120	
Chromium	ug/L	500	516	103	80-120	
Cobalt	ug/L	500	510	102	80-120	
Copper	ug/L	500	485	97	80-120	
Lead	ug/L	500	515	103	80-120	
Nickel	ug/L	500	513	103	80-120	
Selenium	ug/L	500	496	99	80-120	
Silver	ug/L	250	246	98	80-120	
Vanadium	ug/L	500	497	99	80-120	
Zinc	ug/L	500	514	103	80-120	

MATRIX SPIKE SAMPLE: 108988

Parameter	Units	9217935002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	479	96	75-125	
Arsenic	ug/L	ND	500	484	97	75-125	
Barium	ug/L	0.28J	500	470	94	75-125	
Beryllium	ug/L	0.50J	500	483	96	75-125	

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QUALITY CONTROL DATA

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218383

MATRIX SPIKE SAMPLE: 108988

Parameter	Units	9217935002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cadmium	ug/L	0.85J	500	493	98	75-125	
Chromium	ug/L	ND	500	494	99	75-125	
Cobalt	ug/L	1.2J	500	487	97	75-125	
Copper	ug/L	ND	500	465	93	75-125	
Lead	ug/L	ND	500	489	98	75-125	
Nickel	ug/L	8.1	500	491	97	75-125	
Selenium	ug/L	7.8J	500	476	94	75-125	
Silver	ug/L	0.13J	250	235	94	75-125	
Vanadium	ug/L	ND	500	477	95	75-125	
Zinc	ug/L	24.7	500	514	98	75-125	

SAMPLE DUPLICATE: 108987

Parameter	Units	9217935002 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND	0	25	
Arsenic	ug/L	ND	ND	200	25	
Barium	ug/L	0.28J	ND	72	25	
Beryllium	ug/L	0.50J	0.49J	2	25	
Cadmium	ug/L	0.85J	0.80J	5	25	
Chromium	ug/L	ND	ND	133	25	
Cobalt	ug/L	1.2J	ND	64	25	
Copper	ug/L	ND	ND	0	25	
Lead	ug/L	ND	ND	174	25	
Nickel	ug/L	8.1	2.7J	101	25	
Selenium	ug/L	7.8J	ND	104	25	
Silver	ug/L	0.13J	0.12J	6	25	
Vanadium	ug/L	ND	ND	200	25	
Zinc	ug/L	24.7	25.3	2	25	

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QUALITY CONTROL DATA

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218383

QC Batch: WETA/2610
QC Batch Method: EPA 365.1
Analysis Method: EPA 365.1
Analysis Description: 365.1 Phosphorus, Total
Associated Lab Samples: 9218383001

METHOD BLANK: 109625
Associated Lab Samples: 9218383001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Phosphorus	mg/L	ND	0.10	

LABORATORY CONTROL SAMPLE: 109626

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	1	1.0	104	90-110	

MATRIX SPIKE SAMPLE: 109627

Parameter	Units	9217854002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	0.34	1	1.3	91	90-110	

MATRIX SPIKE SAMPLE: 109629

Parameter	Units	9218518001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	3.9	1	5.1	121	90-110	M1

SAMPLE DUPLICATE: 109628

Parameter	Units	9218337001 Result	Dup Result	RPD	Max RPD	Qualifiers
Phosphorus	mg/L	0.46	0.46	1	20	

SAMPLE DUPLICATE: 109630

Parameter	Units	9218438001 Result	Dup Result	RPD	Max RPD	Qualifiers
Phosphorus	mg/L	0.82	0.79	4	20	

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QUALITY CONTROL DATA

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218383

QC Batch: WETA/2613
QC Batch Method: ASTM D516-90
Analysis Method: ASTM D516-90
Analysis Description: ASTM D516-90 Sulfate Water
Associated Lab Samples: 9218383001

METHOD BLANK: 109922
Associated Lab Samples: 9218383001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Sulfate	mg/L	ND	5.0	

LABORATORY CONTROL SAMPLE: 109923

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	20.6	103	90-110	

MATRIX SPIKE SAMPLE: 109924

Parameter	Units	9218221002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	ND	20	21.0	105	75-125	

MATRIX SPIKE SAMPLE: 109926

Parameter	Units	9218547009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	ND	20	20.2	101	75-125	

SAMPLE DUPLICATE: 109925

Parameter	Units	9218291001 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	mg/L	13.1	12.9	2	20	

SAMPLE DUPLICATE: 109927

Parameter	Units	9218547010 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	mg/L	ND	ND	0	20	

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QUALITY CONTROL DATA

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218383

QC Batch: WETA/2622 | Analysis Method: SM 5220D
QC Batch Method: SM 5220D | Analysis Description: 5220D COD
Associated Lab Samples: 9218383001

METHOD BLANK: 111211
Associated Lab Samples: 9218383001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chemical Oxygen Demand	mg/L	ND	25.0	

LABORATORY CONTROL SAMPLE: 111212

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	750	766	102	90-110	

MATRIX SPIKE SAMPLE: 111213

Parameter	Units	9218383001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	314	750	716	54	75-125	M0

MATRIX SPIKE SAMPLE: 111298

Parameter	Units	9218712001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	94.0	750	835	99	75-125	

SAMPLE DUPLICATE: 111214

Parameter	Units	9218400002 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	2600000	2590000	.4	20	

SAMPLE DUPLICATE: 111215

Parameter	Units	9218677001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	ND	ND	0	20	

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QUALITY CONTROL DATA

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218383

QC Batch: MERP/1471
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Associated Lab Samples: 9218383001

METHOD BLANK: 112847
Associated Lab Samples: 9218383001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ug/L	ND	0.20	

LABORATORY CONTROL SAMPLE: 112848

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.4	97	80-120	

MATRIX SPIKE SAMPLE: 112849

Parameter	Units	9218382001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	2.5	1.9	75	75-125	

SAMPLE DUPLICATE: 112850

Parameter	Units	9218382002 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury	ug/L	ND	ND	33	25	R3

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Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: Madison Co.Operating 2006.1202
Pace Project No.: 9218383

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.

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.

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LABORATORIES

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

ANALYTE QUALIFIERS

L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R3	RPD value was outside control limits due to uncertainty of values at or near the PRL.

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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

1178585

Section A Required Client Information:

Company: Altamont Environmental
Address: 50 College St
Asheville, NC 28801
Email To: jlenk@altamontenvironmental.com
Phone: 281-3350 Fax: 281-3351
Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: Joel Lenk
Copy To:
Purchase Order No.:
Project Name: Madison Co Operating Landfill
Project Number: 2006.1202

Section C Invoice Information:

Attention: Judith Robertson
Company Name: Altamont
Address: Same
Pace Quote Reference:
Pace Project Manager: Lorri Patton
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): VOC 8260 - App I	App I metals-6010	Thallium	BOD	COD	Nitrate, Sulfate	Total Phosphorus	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	LP-1	WT	G			4-30	12:21	18	9	2	2	2	3					X	X	X	X	X	X	X		9218383001
2																										
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
VOC by 8260 low level	Jon Hazinski	4-30-08	1525		4/30/0	15:25	3.3	Y	N	Y
All analytical results										
need to include MDL										
and qualifers if applicable.										

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jon Hazinski

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 4-30-08

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.

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

May 12, 2008

Client Services
Pace Analytical Ashville
2225 Riverside Dr.
Asheville, NC 28804

RE: Project: 9218383 ALTAMONT
Pace Project No.: 1072541

Dear Client Services:
Enclosed are the analytical results for sample(s) received by the laboratory on April 30, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Sylvia Hunter

Sylvia Hunter

sylvia.hunter@pacelabs.com
Project Manager

Florida (Nelap) Certification #: E87605
Illinois Certification #: 200011
Iowa Certification #: 368
Minnesota Certification #: 027-053-137
Wisconsin Certification #: 999407970

Enclosures

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1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: 9218383 ALTAMONT
Pace Project No.: 1072541

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9218383001	LP-1	Water	04/30/08 12:21	04/30/08 15:25

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SAMPLE ANALYTE COUNT

Project: 9218383 ALTAMONT
Pace Project No.: 1072541

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9218383001	LP-1	EPA 200.8	RJS	1	PASI-M

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PROJECT NARRATIVE

Project:
Pace Project No.:

Method:
Description:
Client:
Date:

This data package has been reviewed for quality and completeness and is approved for release.

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(612)607-1700

QUALITY CONTROL DATA

Project: 9218383 ALTAMONT
Pace Project No.: 1072541

QC Batch: MPRP/12053
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET
Associated Lab Samples: 9218383001

METHOD BLANK: 473792
Associated Lab Samples: 9218383001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Thallium	ug/L	ND	1.0	

LABORATORY CONTROL SAMPLE: 473793

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Thallium	ug/L	80	81.3	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 473794 473795

Parameter	Units	1072383001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Thallium	ug/L	ND	80	80	76.5	76.4	96	95	70-130	.2	20	

MATRIX SPIKE SAMPLE: 473796

Parameter	Units	9218383001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Thallium	ug/L	ND	80	78.2	98	70-130	

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QUALIFIERS

Project: 9218383 ALTAMONT
Pace Project No.: 1072541

DEFINITIONS

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LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 9218383 ALTAMONT
Pace Project No.: 1072541

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
9218383001	**LP-1**	EPA 200.8	MPRP/12053	EPA 200.8	ICPM/4756

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