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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: Marta A. VanDussen Phone: (828) 281 3350

E-mail: mvandussen@altamontenvironmental.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Jackson County Municipal Solid Waste Landfill	US Highway 441 Dillsboro, NC 28725	50-02	.1600	April 7 and 8, 2009

Environmental Status: (Check all that apply)

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

Type of data submitted: (Check all that apply)

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

Notification attached?

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

Certification

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

Alec Macbeth — Facility Representative Name (Print)
P.G. — Title
(828) 281 3350 ext.215 — (Area Code) Telephone Number

Signature: Alec Macbeth
Date: 6/26/09

Affix NC Licensed/ Professional Geologist/Engineer Seal here:

NORTH CAROLINA LICENSED SEAL 2205 GEOLOGIST ALEXANDER PAUL MACBETH

Revised 01/2007

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SPRING 2009 SEMIANNUAL WATER QUALITY MONITORING REPORT

JACKSON COUNTY MUNICIPAL SOLID WASTE LANDFILL JACKSON COUNTY, NORTH CAROLINA

Prepared for
Jackson County Solid Waste Department

June 26, 2009

Prepared by
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1.0 INTRODUCTION

The Jackson County Solid Waste Department maintains a closed Municipal Solid Waste Landfill (MSWLF) located approximately 0.75 miles west of Dillsboro, North Carolina, north of Old Dillsboro Road (Old U.S. 74). The approximate location of the landfill is shown in Figure 1. The water quality monitoring at the landfill is governed by the North Carolina Department of Environment and Natural Resources (DENR), Division of Waste Management (DWM), under Permit No. 50-02 issued to Jackson County. The landfill permit requires semiannual monitoring of groundwater and surface water quality.

This report serves as the first semiannual water quality monitoring report for 2009 and provides an evaluation of groundwater and surface water quality. Statistical analyses performed on groundwater analytical data, as well as the generalized groundwater flow direction are provided in the report and support the water quality assessment.

On a semiannual basis, water samples are collected from select monitoring points. One sampling event occurs during the spring and the other during the fall. The analytical suite associated with this sampling event and the future sampling events is as follows:

Spring 2009–Appendix I Metals and volatile organic compounds (VOCs)

Fall 2009–Appendix II Metals and VOCs

Spring 2010–Appendix I Metals and VOCs

The spring 2009 sampling event is conducted and reported in accordance with requirements stipulated in the North Carolina DENR Solid Waste Management Rules codified under Title 15A Subchapter 13B of the North Carolina Administrative Code (15A NCAC 13B).

This report contains the following items:

- Groundwater level measurements and corresponding elevations for the landfill monitoring wells
- An illustration of groundwater and surface water sampling locations

- Generalized groundwater flow direction map
- Summary of groundwater and surface water analytical results
- Statistical analyses for metals and VOCs
- Sampling logs
- Groundwater and surface water quality analytical results with chain-of-custody forms

In brief, six monitoring wells, two surface water locations, and two domestic wells were sampled on April 7 and 8, 2009. The concentration of only one metal, cadmium, in the sample collected from monitoring well 5002-MW-05 exceeded the applicable North Carolina groundwater standard (2L standard, as documented in 15A North Carolina Administrative Code [NCAC] 2L.0202 2L) of 1.75 µg/L. Three VOCs were detected at concentrations that exceeded their applicable groundwater standard (1,4-dichlorobenzene at a concentration range of 4.9 µg/L to 15.9 µg/L, benzene at a concentration range of 1 µg/L to 5.8 µg/L, and vinyl chloride at an estimated (J flag) concentration range of 0.78 µg/L to 0.99 µg/L). The presence of these VOCs is considered to have been caused by anthropogenic activities. The VOCs were also detected at comparable concentrations during the October 2008 groundwater monitoring sampling event. This report describes the spring 2009 results in detail.

Metals and VOCs were not detected in surface water samples collected from upstream and downstream of the Tuckasegee River, or in groundwater samples collected from two domestic water wells.

2.0 SEMIANNUAL MONITORING

2.1 GROUNDWATER, SURFACE WATER, AND DOMESTIC WELL SAMPLING

The closed MSWLF monitoring wells (5002-MW-01, 5002-MW-02, 5002-MW-03, 5002-MW-04, 5002-MW-05, and 5002-MW-06) and surface water sample locations (5002-SW-01 and 5002-SW-02) were sampled on April 7 and 8, 2009 by Altamont Environmental, Inc. (Altamont). The monitoring well and surface water sample locations are depicted on Figure 2. In addition, groundwater samples from two domestic water wells (DW-01 and DW-02) were collected on April 7 and 8, 2009.

Each of the monitoring wells except for 5002-MW-05 were purged and sampled using low-flow techniques in accordance with the procedures described in "Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures", United States Environmental Protection Agency (EPA), *Groundwater Issues* (April 1996). During purging, the pH, specific conductivity, dissolved oxygen, oxidation-reduction potential (ORP), turbidity, and temperature were measured and recorded approximately every three minutes. Well purging continued until these parameters stabilized (three successive readings in which pH +/- 0.1 unit; specific conductivity +/- 3 percent; temperature, dissolved oxygen and turbidity +/- 10 percent; and ORP +/- 10 millivolts). At that time, a groundwater sample was collected using laboratory-supplied sample bottles by Altamont field personnel wearing new unused nitrile gloves. Collected samples were immediately placed on ice in sample coolers for transport to the laboratory, Pace Analytical Services, Inc. (Pace) located in Asheville, North Carolina. Proper chain-of-custody documentation was followed during collection and transport of each sample. A trip blank was included in the sample cooler and analyzed for Appendix I VOCs.

Instead of low-flow sampling techniques, monitoring well 5002-MW-05 was purged and sampled using a disposable bailer. The well is bent and the down-hole pump used for the low-flow sampling cannot be lowered to the appropriate depth to collect a sample. Care was taken during the bailing of 5002-MW-05 to minimize agitation of the water within the well, and the turbidity value associated with the sample [3.3 nephelometric turbidity units (NTUs)] is relatively low for a bailed well. The range of turbidity values for the groundwater samples collected during the April 2009 sampling event ranged from 0.00 NTUs

measured at 5002-MW-03 to 5.96 NTUs measured at 5002-MW-06. Again, these are reasonably low values and therefore it does not appear that the metal results or detections from the spring 2009 sampling event reflect the influence of elevated turbidity.

Surface water samples 5002-SW-01 and 5002-SW-02 were collected at designated locations from the Tuckasegee River, which is adjacent to the landfill to the southwest. Surface water sample 5002-SW-01 is representative of surface water quality upstream of the landfill; 5002-SW-02 is representative of surface water quality downstream from the landfill. Samples were collected in laboratory-supplied sample bottles by Altamont field personnel wearing new nitrile gloves. Collected samples were immediately placed on ice in sample coolers for transport to the laboratory at Pace. Proper chain-of-custody documentation was followed during collection and transport of each sample. As with the groundwater sampling procedures, temperature, pH, specific conductivity, dissolved oxygen, ORP, and turbidity were measured and recorded at each surface water sampling location (Table 1).

Field parameters and additional observations pertaining to the MSWLF sampling locations are provided on sampling logs (Appendix A). Groundwater and surface water samples were analyzed by Pace, a North Carolina certified laboratory. Altamont submitted the groundwater samples collected from the monitoring wells and the surface water samples for the following analyses:

- Appendix I VOCs using EPA Method 8260
- Appendix I metals using EPA Methods 6010, 6020 and 7470

The domestic well samples were analyzed for VOCs using EPA Method 524.2.

2.2 Analytical Results

The laboratory analytical results for the groundwater samples (monitoring wells 5002-MW-01 through 5002-MW-06, and domestic wells DW-01 and DW-02) and surface water samples (5002-SW-01 and 5002-SW-02) collected at the MSWLF are summarized in Table 1. This table is presented in the Electronic Data Deliverable (EDD) format specified by a DENR DWM Solid Waste Section memorandum dated October 27, 2006. The laboratory analytical reports issued by Pace and chain-of-custody forms are included in Appendix B.

As stipulated in the October 27, 2006 Solid Waste Section memorandum referenced above, all laboratory analytical results were reported and appropriately qualified. Non-detections (non-detects), which are values reported by the laboratory as below method detection limits (MDLs), were tabulated on Table 1 as "Below Quantitation Limit" (BQL), and were qualified with the "U" qualifier. The MDL is the minimum concentration of a substance that can be measured and reported by a laboratory with 99% confidence that the constituent concentration is greater than zero. All detections (values above the MDL) were compared to constituent-specific Solid Waste Section Limits (SWSLs) established by the Solid Waste Section. The SWSL is defined as the lowest concentration of a constituent in a sample that can be quantitatively determined with suitable precision and accuracy. If a reported concentration is above the laboratory MDL but below the SWSL, the analytical result is qualified as estimated. These results are flagged with a "J" qualifier (J-flag) in Table 1.

Detected concentrations of constituents in groundwater samples were compared to the applicable North Carolina groundwater quality standards. For most constituents, this standard is the 2L Standard, from 15A NCAC 2L.0202. Detected concentrations of constituents in groundwater with no established 2L Standard were compared to the Groundwater Protection Standards (GWPSs) pursuant to 15A NACA 13B.1634. Surface water sample detections were compared to the standard from the North Carolina Administrative Code (NCAC) Title 13A, Subchapter 2B groundwater quality standards (2B Standard).

2.2.1 Groundwater-Monitoring Wells

Analytical results for groundwater samples collected from the monitoring wells are discussed below.

Appendix I Metals

- Nine metals (arsenic, barium, chromium, cobalt, copper, mercury, nickel, zinc, and thallium) were detected at concentrations below their SWSLs (J-flags) in one or more of the monitoring well groundwater samples (Table 1).
- Five metals (barium, cadmium, cobalt, mercury, and zinc) were detected in samples collected from one or more of the monitoring wells at concentrations above the SWSLs but below the respective 2L Standard or GWPS, as applicable (Table 2).

- One metal, cadmium, was detected in the groundwater sample collected from one monitoring well (5002-MW-05) at a concentration (3.4 micrograms per liter [µg/L]) above its 2L Standard (1.75 µg/L; Table 3).

Appendix I VOCs

- Eight VOCs were detected at estimated concentrations below their SWSLs (J-flags) in the groundwater samples collected from the monitoring wells. These VOCs are 1,1-dichloroethane, 1,2-dichlorobenzene, benzene, chlorobenzene, cis-1,2-dichloroethene, o-xylene, tetrachloroethene, and vinyl chloride (Table 1).
- Six VOCs (1,1-dichloroethane, 1,4-dichlorobenzene, benzene, chlorobenzene, cis-1,2-dichloroethene and trichloroethene) were detected at concentrations above their respective SWSLs (Table 2).
- Three VOCs, 1,4-dichlorobenzene, benzene, and vinyl chloride, were detected at concentrations above their respective 2L Standards.

The following statements summarize the 2L Standard exceedances for Appendix I VOCs in groundwater samples, as shown in Table 3.

- The detected concentrations of 1,4-dichlorobenzene in the groundwater samples collected from five monitoring wells (5002-MW-01, 5002-MW-03, 5002-MW-04, 5002-MW-05, and 5002-MW-06) exceeded the compound's 2L Standard of 1.4 µg/L. The detected concentrations of 1,4-dichlorobenzene in these monitoring wells ranged from 3.2 µg/L to 15.9 µg/L.
- The concentration of benzene detected in the groundwater samples collected from four monitoring wells (5002-MW-01, 5002-MW-04, 5002-MW-05, and 5002-MW-06) exceeded the 2L Standard of 1 µg/L. The detected concentrations of benzene in these monitoring wells ranged from 1.0 µg/L to 5.8 µg/L.
- Vinyl chloride was detected at concentrations above its 2L Standard (0.015 µg/L) in the groundwater samples collected from 5002-MW-04 at 0.78 J µg/L and 5002-MW-05 at 0.99 J µg/L. These concentrations are below the compound's SWSL of 1 µg/L.

2.2.2 Surface Water

The following statements summarize detections of Appendix I metals and Appendix I VOCs in the two surface water samples collected during the April 2009 sampling event.

Appendix I Metals

- Four metals (barium, cobalt, copper, and zinc) were detected at estimated concentrations below SWSLs in the surface water samples collected during the spring 2009 sampling event. No other metals were detected in either surface water sample.
- None of the metals detected in surface water samples 5002-SW-01 or 5002-SW-02 exceeded the applicable 2B Standards.

Appendix I VOCs

- VOCs were not detected in either surface water sample (5002-SW-01 or 5002-SW-02).

2.2.3 Groundwater—Domestic Water Wells

No VOCs analyzed by EPA Method 524.2 were detected in the samples collected from domestic wells (DW-01 or DW-02).

2.3 HYDROGEOLOGY

Groundwater occurring in the saprolite and bedrock aquifers is monitored at the MSWLF. Three bedrock monitoring wells, 5002-MW-01, 5002-MW-02, and 5002-MW-06, are located in the northwest portion of the site (Figure 2 and Table 4). Because these three wells are situated linearly and groundwater flow in fractured bedrock is complex, an accurate groundwater flow direction in bedrock cannot be reliably estimated.

Monitoring wells 5002-MW-03, 5002-MW-04, and 5002-MW-05 (Figure 3), located at the southern portion of the landfill, are completed in the saprolite (including partially weathered rock [PWR]) water bearing zone. Water level data collected from these monitoring wells (Table 4) indicate that groundwater flow direction in the shallow aquifer is generally to the southwest, toward the Tuckasegee River. Figure 3 depicts the generalized groundwater flow direction in the saprolite/PWR water bearing zone, based on the groundwater measurements made by Altamont on April 7 and 8, 2009.

2.4 STATISTICAL ANALYSIS

Typically, an analysis of variance (ANOVA) procedure is used to compare concentration data from several compliance wells with concentration data from background wells. However, as stated in a letter from Altamont to DENR dated January 16, 2004, the MSWLF does not have an adequate background well. Monitoring well 5002-MW-01 was installed at a location that was considered to represent background water quality. The historical analytical results, though, suggest that groundwater quality at 5002-MW-01 is not representative of background groundwater conditions for the MSWLF. Therefore, a standard ANOVA procedure is not feasible for this landfill.

In lieu of an ANOVA procedure, Altamont performed the Student's *t*-test statistical procedure (*t*-test) to determine whether the mean concentration of a detected constituent is statistically greater than its respective 2L Standard or GWPS. The *t*-test is commonly used when comparing a time series of data (e.g., current and historic concentrations of a specific contaminant detected in samples collected from a specific well) to one given value (for example, the 2L Standard). GWPS values were used for constituents that did not have a listed 2L Standard.

The *t*-test evaluates the null hypothesis that the mean concentration of a detected constituent is equal to or less than the 2L Standard. If the mean for a particular constituent is not statistically greater than its respective 2L Standard, then the null hypothesis is accepted. Conversely, if the mean for a particular constituent is statistically greater than the respective 2L Standard, then the null hypothesis is rejected and the mean concentration is acknowledged to be greater than the 2L Standard. This is determined by comparing the computed *t*-statistic to a tabulated *t*-statistic.

The computed *t*-statistic takes into account the mean, standard deviation, number of data points, and the 2L Standard (or GWPS), as shown in the following equation:

$$t_{\text{computed}} = \frac{\text{mean} - \text{2L Standard}}{\dfrac{\text{standard deviation}}{\sqrt{\text{sample size}}}}$$

Data and calculations for the computed *t*-statistic are included in Appendix C. Historical data from 1996 to April 2009 were used.

The tabulated *t*-statistic is derived from a standard *t*-distribution table and is based on the sample size and a pre-determined sensitivity value (α). The DENR, in Subchapter 13B, Section .1632(h)(2), established α as 0.01. If the tabulated *t*-statistic exceeds the computed *t*-statistic, then the null hypothesis is accepted. If the computed *t*-statistic exceeds the tabulated *t*-statistic, then the null hypothesis is rejected, and the alternate hypothesis is accepted (that is, the mean concentration of the constituent is greater than the 2L Standard or GWPS).

The statistical analysis was performed on metals and VOCs that have been detected historically at the MSWLF. For a given constituent, a dataset (or sample set) consisted of analytical results from all available laboratory analyses performed to date. Concentrations detected below the laboratory MDL (non-detects) during the current sampling event were replaced with the method reporting limit (MRL) specified by the laboratory in all datasets. The MDL was replaced with the MRL since the MRL is the minimum concentration of a constituent in a sample that can be quantitatively determined by the referenced method with suitable precision and accuracy by the laboratory. Statistical evaluation of a given constituent whose sample set contained a large amount of non-detects was not conducted if the MRL exceeded the groundwater quality standard of interest. Altamont consulted with Dr. Arthur Lubin, an environmental statistician with the EPA, on January 9, 2004 concerning the use of values reported as "non-detectable". Dr. Lubin stated that a valid statistical comparison is not possible when a sample set contains non-detect values and the detection limit (or value used to replace non-detects) is greater than the associated groundwater standard. Dr. Lubin added that a qualitative analysis of the data is the only feasible option for this scenario. Statistical analyses were not performed for constituents that have not been detected historically; in the event of future detections, Altamont will conduct statistical analyses on these constituents.

2.4.1 Appendix I Metals

The results of the statistical analysis are summarized in Appendix C. Valid statistical analysis of cadmium and thallium datasets was not possible due to the large number of historical non-detect values.

Statistical analysis of all other detected metals indicates that the historical mean concentration of each metal does not exceed its respective 2L Standard or GWPS.

2.4.2 Appendix I VOCs

As summarized in Appendix C, the historical mean concentration of two detected VOCs, 1,4-dichlorobenzene and benzene, are statistically greater than the respective 2L Standard in one or more of the monitoring wells.

The mean concentration of 1,4-dichlorobenzene in five of the monitoring wells (5002-MW-01, 5002-MW-03, 5002-MW-04, 5002-MW-05, and 5002-MW-06) is statistically greater than its respective 2L Standard of 1.4 µg/L. For 5002-MW-02, the use of the *t*-test to evaluate concentration of 1,4-dichlorobenzene is not valid, as the sample set contains a majority of historical non-detect values that exceed the current 2L Standard.

The mean concentration of benzene in three of the monitoring wells (5002-MW-01, 5002-MW-05, and 5002-MW-06) is statistically greater than the respective 2L Standard of 1 µg/L. Use of the *t*-test to evaluate the concentration of benzene present in the remainder group of wells (5002-MW-02, 5002-MW-03, and 5002-MW-04) is not valid. Benzene has never been detected in samples collected from 5002-MW-02. The sample sets of the monitoring wells 5002-MW-03 and 5002-MW-04 contain a majority of historical non-detect values, which exceed the current 2L Standard. Therefore, the benzene datasets associated with groundwater samples from these monitoring wells were not statistically evaluated.

Statistical analysis of the other VOC, vinyl chloride, detected at concentrations above its 2L Standard during the spring 20009 sampling event cannot be accepted as valid due to the large number of non-detects in sample sets of each of the six monitoring wells. Additionally, the MRL of the compound is above the applicable standards.

No other VOCs detected in the samples collected from monitoring wells exceed applicable groundwater quality standards.

3.0 SUMMARY

The first semiannual groundwater monitoring event of 2009 was conducted on April 7 and 8, 2009 at the Jackson County MSWLF.

3.1 GROUNDWATER – MONITORING WELLS

Appendix I Metals

Five metals (barium, cadmium, cobalt, mercury, and zinc) were detected at concentrations above their SWSLs in the groundwater samples collected from one or more of the monitoring wells during the spring 2009 water quality monitoring event. Of these five metals, only cadmium was detected at a concentration exceeding its 2L Standard. The cadmium concentration detected in 5002-MW-05 (3.4 µg/L) exceeded the 2L Standard of 1.75 µg/L. In the past, cadmium has been detected intermittently at low levels in groundwater samples collected from monitoring wells at the MSWLF. The concentrations of cadmium detected in the groundwater samples collected from 5002-MW-05 during the April and October 2008 sampling events also exceeded the metal's 2L Standard. A valid statistical analyses on the cadmium concentrations could not be conducted because of the lack of viable background groundwater samples and the large number of non-detect values present in datasets.

Appendix I VOCs

Six VOCs (1,1-dichloroethane, 1,4-dichlorobenzene, benzene, chlorobenzene, cis-1,2-dichloroethene, trichloroethene) were detected at concentrations above their SWSLs in groundwater samples collected from the monitoring wells at the MSWLF.

1,4-Dichlorobenzene is detected in groundwater samples collected from five monitoring wells (5002-MW-01 at 5.6 µg/L; 5002-MW-03 at 4.9 µg/L; 5002-MW-04 at 7.1 µg/L 5002-MW-05 at 15.9 µg/L; and 5002-MW-06 at 3.2 µg/L) in exceedance of both the SWSL and the compound's 2L Standard of 1.4 µg/L. Statistical analysis, using the Student's *t*-test, revealed that the mean concentration of 1,4-dichlorobenzene is significantly greater than the 2L Standard in five of six monitoring wells (5002-MW-01, 5002-MW-03, 5002-MW-04, 5002-MW-05, and 5002-MW-06). For 5002-MW-02, the use of the *t*-

test to evaluate concentrations of 1,4-dichlorobenzene was not applicable, as the sample set contains a majority of historical non-detect values with associated MRLs that are greater than the compound's 2L Standard.

Concentrations of benzene detected in four groundwater samples (5002-MW-01 at 5.8 µg/L; 5002-MW-04 at 1.2 µg/L; 5002-MW-05 at 1.0 µg/L; and 5002-MW-06 at 1.4 µg/L) exceeded the compound's 2L Standard of 1.0 µg/L. Statistical analysis, using the Student's *t*-test, revealed that the mean concentration of benzene is significantly greater than the 2L Standard in monitoring wells 5002-MW-01, 5002-MW-05, and 5002-MW-06. The datasets for 5002-MW-03 and 5002-MW-04 were not statistically evaluated as they each contained a majority of historical non-detects with associated MRLs that were greater than benzene's 2L Standard. The dataset for 5002-MW-02 was not evaluated because benzene has never been detected in this monitoring well.

Vinyl chloride was detected at estimated concentrations in groundwater samples collected from two monitoring wells (5002-MW-04 at 0.78 J µg/L and 5002-MW-05 at 0.99 J µg/L) that exceeded the compound's 2L Standard of 0.015 µg/L. A statistical analysis of the vinyl chloride dataset is not valid as the sample set contains a majority of historical non-detect values that exceed the current 2L Standard.

A review of historical groundwater data indicates that the three compounds, 1,4-dichlorobenzene, benzene, and vinyl chloride have been detected at comparable concentrations for the past several years. Historical surface water samples from the Tuckasegee River, which likely receives discharge from the saprolite groundwater bearing zone, have consistently shown no detections of these compounds, or any other VOCs.

3.2 SURFACE WATER

Appendix I Metals

Metals were not detected above SWSLs in either of the surface water samples collected from the Tuckasegee River.

Appendix I VOCs

VOCs were not detected in surface water samples collected either upstream or downstream of the landfill.

3.3 GROUNDWATER—DOMESTIC WELLS

Method 524.2 VOCs

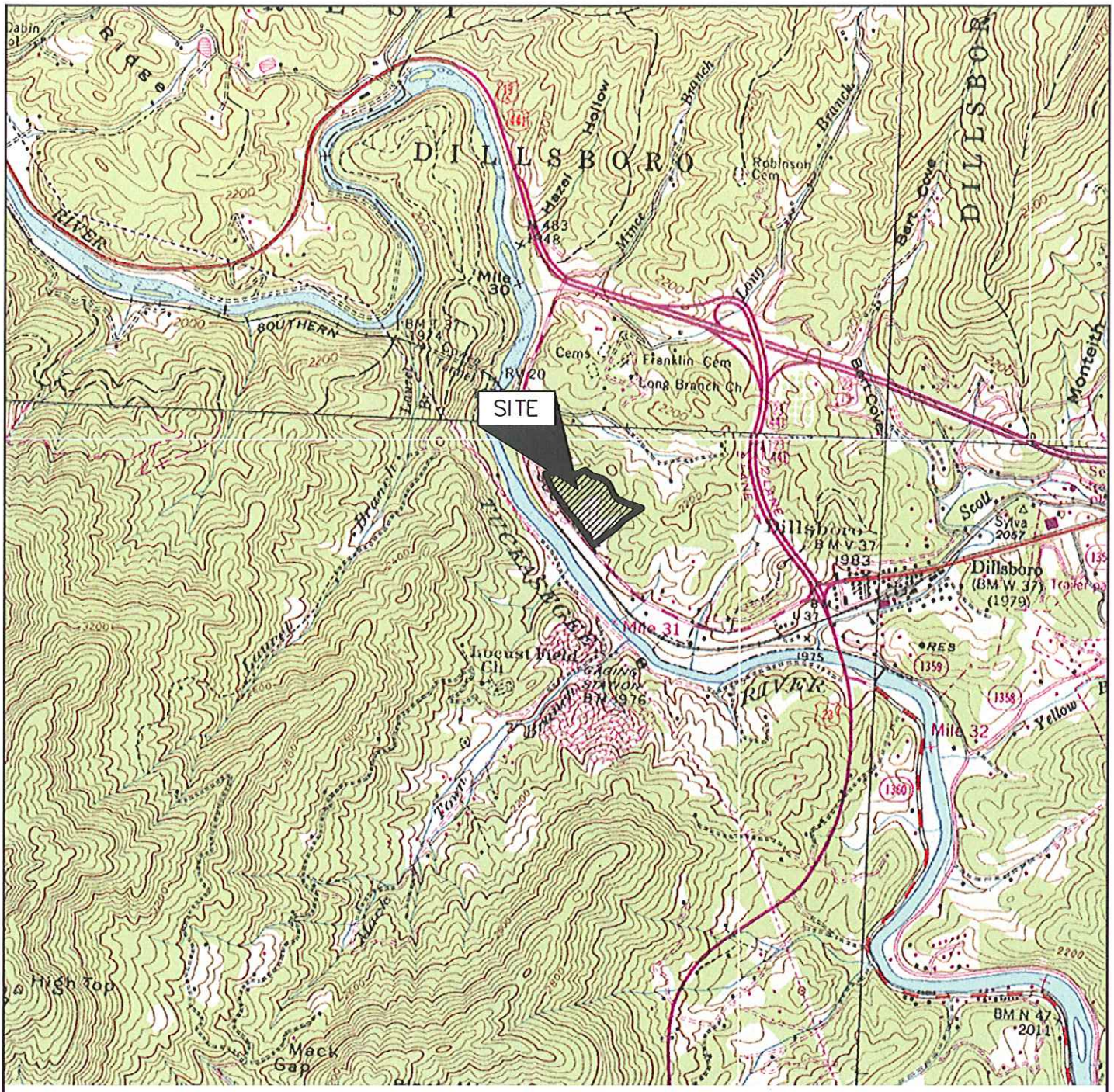
No VOCs were detected above SWSLs in either of the groundwater samples collected from the two domestic wells.

3.4 RECOMMENDATIONS

2L Standard exceedances of 1,2-dichlorobenzene, benzene, and vinyl chloride were detected in groundwater samples collected during the spring 2009 monitoring event. Based upon a review of previous reports, the concentrations appear to be decreasing with time.

Altamont will continue to monitor the water quality on a semiannual basis at the MSWLF. The next semiannual sampling event, which will consist of analysis for Appendix II Metals and VOCs, is scheduled for October 2009.

FIGURES



SOURCE: USGS TOPOGRAPHIC MAPS; NORTH CAROLINA QUADRANGLES ARE AT A SCALE OF 1:24,000
GREENS CREEK (CREATED: 1940, REVISED: 1978)
SYLVA NORTH (CREATED: 1967, REVISED 1978)
SYLVA SOUTH (CREATED: 1946, REVISED 1990)
WHITTIER (CREATED: 1967, REVISED 1978)

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SITE LOCATION MAP

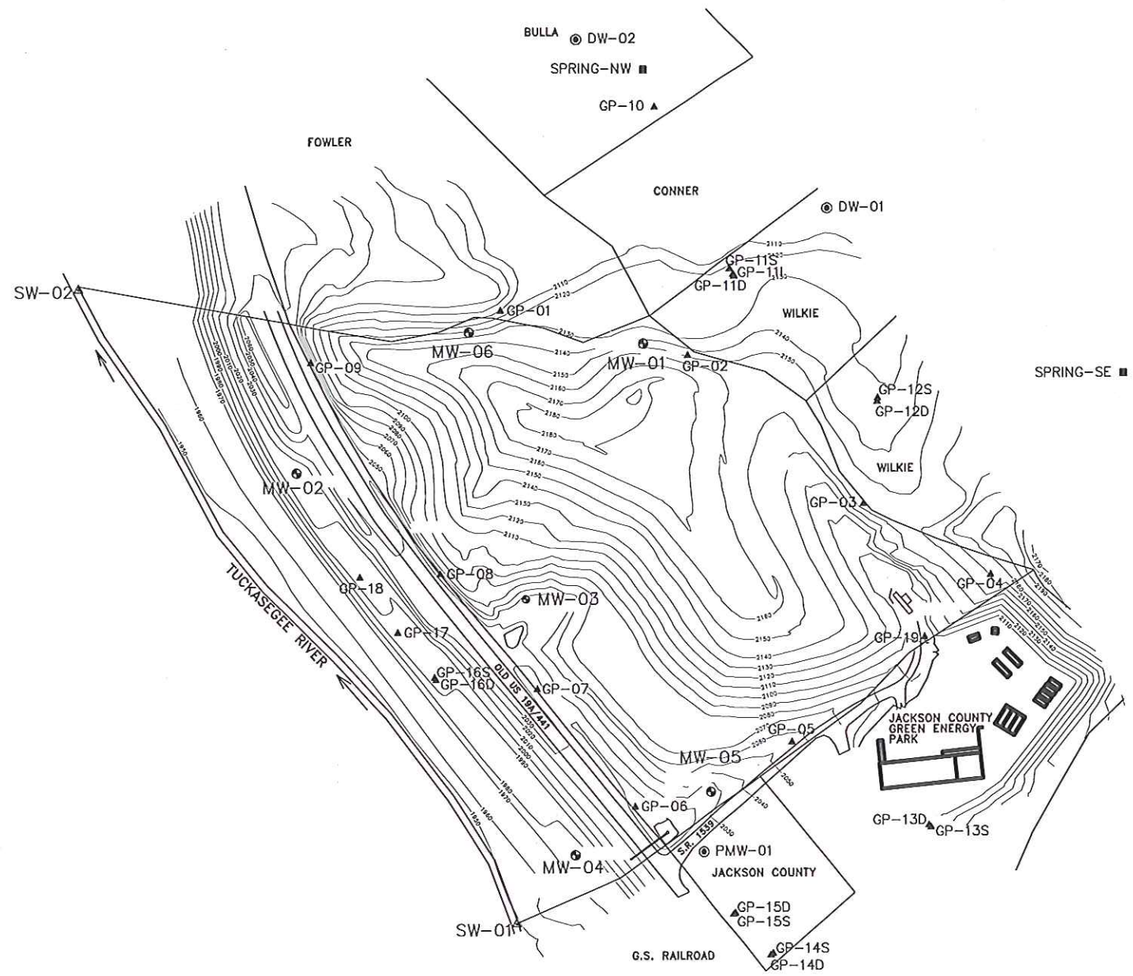
MUNICIPAL SOLID WASTE LANDFILL
JACKSON COUNTY
NORTH CAROLINA

FIGURE 1

DRAWN BY: EVAN YURKOVICH
PROJECT MANAGER: JOEL LENK
CLIENT: JACKSON COUNTY
DATE: 06/01/2009

SCALE (FEET)
1000 0 1000 2000

P:\JACKSON COUNTY\DILLSBORO GW\FIGURES\CAD\FIGURE 1 (06-01)



LEGEND:

MW-1	MONITORING WELL LOCATION
SW-1	SURFACE WATER SAMPLE LOCATION
GP-1	GAS PROBE LOCATION
DW-01	APPROXIMATE DOMESTIC WATER SUPPLY WELL LOCATION
PMW-01	PRIVATE MONITORING WELL LOCATION
SPRING-NW	SPRING LOCATION
FOWLER	PROPERTY OWNER SURNAME

NOTE:

1. TOPOGRAPHIC CONTOURS ARE FOR REPRESENTATIVE PURPOSES. CONTOURS OBTAINED FROM McGILL ASSOCIATES.
2. LOCATIONS OF DOMESTIC WATER SUPPLY WELLS DW-01 AND DW-02 ARE APPROXIMATE.

REV.	DATE	DESCRIPTION	BY	CHK	APV
9	06-09-08	UPDATE	KRM	JDH	
8	01-24-08	UPDATE	KRM	JDH	
7	11-03-06	NEW TITLE BLOCK	JK	CFG	
6	06-28-06	UPDATE	ZP	JSM	
5	01-08-05	UPDATE	ZP	JSM	
4	06-18-04	UPDATE	ZP	JSM	
3	11-21-03	UPDATE	ZP	JSM	
2	05-13-02	UPDATE	SEK	JSM	
1	11-12-01	ORIGINAL	JMC	JPM	

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DRAWN BY: MARTA A VANDUSSEN
PROJECT MANAGER: JOEL LENK
CLIENT: JACKSON COUNTY
DATE: 06/01/2009

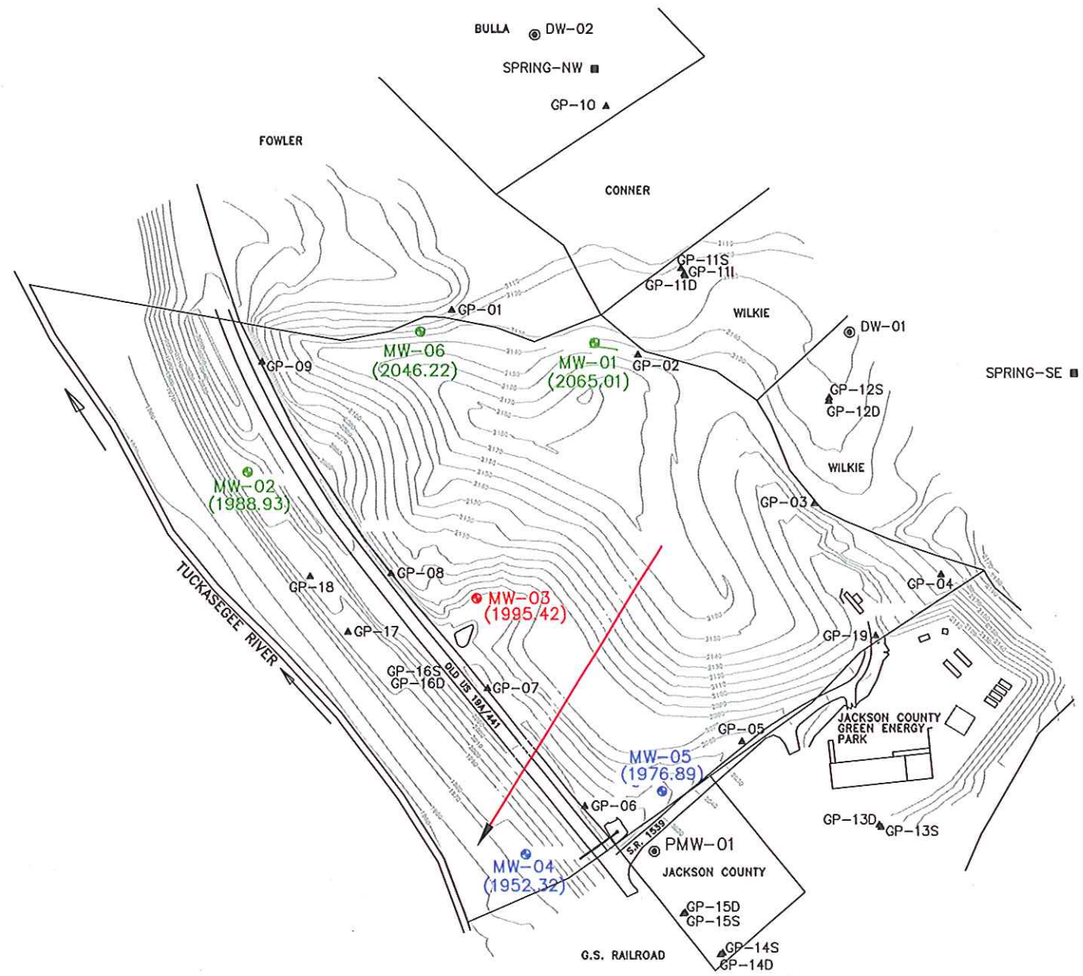
SCALE (FEET)
150 0 150 300

MONITORING WELL AND GAS PROBE LOCATION MAP

MUNICIPAL SOLID WASTE LANDFILL
JACKSON COUNTY
NORTH CAROLINA

FIGURE 2

P:\JACKSON COUNTY\DILLSBORO GW\FIGURES\CAD\FIGURE 2 LOCATION MAP (06-01)



LEGEND:

	MW-1 MONITORING WELL LOCATION
△	SW-1 SURFACE WATER SAMPLE LOCATION
▲	GP-1 GAS PROBE LOCATION
◉	PMW-01 PRIVATE MONITORING WELL LOCATION
◉	DW-1 DOMESTICWATER SUPPLY WELL
■	SPRING-NW SPRING LOCATION
(2066.53)	GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL ON APRIL 7 AND 8, 2009
FOWLER	PROPERTY OWNER SURNAME
	SAPROLITE
	PARTIALLY WEATHERED ROCK
	BEDROCK

NOTE:

1. TOPOGRAPHIC CONTOURS ARE FOR REPRESENTATIVE PURPOSES. CONTOURS OBTAINED FROM McGILL ASSOCIATES.
2. GROUNDWATER FLOW DIRECTION BASED ON GROUNDWATER ELEVATIONS MEASURED IN FEET ON APRIL 7 AND 8, 2009 IN MW-03, MW-04, AND MW-05.
3. GROUNDWATER ELEVATIONS AND FLOW DIRECTION ARE UPDATED ON A SEMI-ANNUAL BASIS EVERY APRIL AND OCTOBER FOLLOWING THE SAMPLE COLLECTION EVENTS.

REV.	DATE	DESCRIPTION	BY	CHK	APV
4	06-01-09	UPDATE	MAV	JDH	
3	06-09-08	UPDATE	KM	JDH	
2	10-30-06	NEW TITLE BLOCK	JK	JDH	
1	11-12-01	ORIGINAL	JMC	JPM	

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DRAWN BY: MARTA A VANDUSSEN
PROJECT MANAGER: JOEL LENK
CLIENT: JACKSON COUNTY
DATE: 06/26/2009

SCALE (FEET)
150 0 150 300

GENERALIZED GROUNDWATER FLOW DIRECTION-SAPROLITE AND PARTIALLY WEATHERED BEDROCK ZONE

MUNICIPAL SOLID WASTE LANDFILL
JACKSON COUNTY
NORTH CAROLINA

FIGURE
3

P:\JACKSON COUNTY\DILLSBORO GW\FIGURES\CAD\FIGURE 3 FLOW DIRECTION_06-01

TABLES

Table 1
Analytical Data and Field Parameters
Jackson County Landfill
Jackson County, North Carolina

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE
50-02	5002-MW-01	7440-36-0	13	Antimony	BQL	ug/L	U	EPA 6010	2.6	6	1	04/08/09	04/10/09	04/14/09
50-02	5002-MW-01	7440-38-2	14	Arsenic	BQL	ug/L	U	EPA 6010	2.7	10	1	04/08/09	04/10/09	04/14/09
50-02	5002-MW-01	7440-39-3	15	Barium	83.4	ug/L	J	EPA 6010	0.20	100	1	04/08/09	04/10/09	04/14/09
50-02	5002-MW-01	7440-41-7	23	Beryllium	BQL	ug/L	U	EPA 6010	0.10	1	1	04/08/09	04/10/09	04/14/09
50-02	5002-MW-01	7440-43-9	34	Cadmium	BQL	ug/L	U	EPA 6010	0.50	1	1	04/08/09	04/10/09	04/14/09
50-02	5002-MW-01	7440-47-3	51	Chromium	BQL	ug/L	U	EPA 6010	0.40	10	1	04/08/09	04/10/09	04/14/09
50-02	5002-MW-01	7440-48-4	53	Cobalt	27.4	ug/L		EPA 6010	0.60	10	1	04/08/09	04/10/09	04/14/09
50-02	5002-MW-01	7440-50-8	54	Copper	BQL	ug/L	U	EPA 6010	0.30	10	1	04/08/09	04/10/09	04/14/09
50-02	5002-MW-01	7439-92-1	131	Lead	BQL	ug/L	U	EPA 6010	4.0	10	1	04/08/09	04/10/09	04/14/09
50-02	5002-MW-01	7439-97-6	132	Mercury	BQL	ug/L	U	EPA 7470	0.070	0.2	1	04/08/09	04/10/09	04/10/09
50-02	5002-MW-01	7440-02-0	152	Nickel	4.4	ug/L	J	EPA 6010	1.7	50	1	04/08/09	04/10/09	04/14/09
50-02	5002-MW-01	7782-49-2	183	Selenium	BQL	ug/L	U	EPA 6010	3.8	10	1	04/08/09	04/10/09	04/14/09
50-02	5002-MW-01	7440-22-4	184	Silver	BQL	ug/L	U	EPA 6010	0.10	10	1	04/08/09	04/10/09	04/14/09
50-02	5002-MW-01	7440-28-0	194	Thallium	0.26	ug/L	J	EPA 6020	0.25	5.5	1	04/08/09	04/16/09	04/20/09
50-02	5002-MW-01	7440-62-2	209	Vanadium	BQL	ug/L	U	EPA 6010	0.20	25	1	04/08/09	04/10/09	04/14/09
50-02	5002-MW-01	7440-66-6	213	Zinc	1.4	ug/L	J	EPA 6010	0.40	10	1	04/08/09	04/10/09	04/14/09
50-02	5002-MW-01	630-20-6	190	1,1,1,2-Tetrachloroethane	BQL	ug/L	U	EPA 8260	0.33	5	1	04/08/09		04/16/09
50-02	5002-MW-01	71-55-6	200	1,1,1-Trichloroethane	BQL	ug/L	U	EPA 8260	0.48	1	1	04/08/09		04/16/09
50-02	5002-MW-01	79-34-5	191	1,1,2,2-Tetrachloroethane	BQL	ug/L	U	EPA 8260	0.40	3	1	04/08/09		04/16/09
50-02	5002-MW-01	79-00-5	202	1,1,2-Trichloroethane	BQL	ug/L	U	EPA 8260	0.29	1	1	04/08/09		04/16/09
50-02	5002-MW-01	75-34-3	75	1,1-Dichloroethane	6.5	ug/L		EPA 8260	0.32	5	1	04/08/09		04/16/09
50-02	5002-MW-01	75-35-4	77	1,1-Dichloroethene	BQL	ug/L	U	EPA 8260	0.56	5	1	04/08/09		04/16/09
50-02	5002-MW-01	96-18-4	206	1,2,3-Trichloropropane	BQL	ug/L	U	EPA 8260	0.41	1	1	04/08/09		04/16/09
50-02	5002-MW-01	96-12-8	67	1,2-Dibromo-3-chloropropane	BQL	ug/L	U	EPA 8260	2.5	13	1	04/08/09		04/16/09
50-02	5002-MW-01	106-93-4	68	1,2-Dibromoethane (EDB)	BQL	ug/L	U	EPA 8260	0.27	1	1	04/08/09		04/16/09
50-02	5002-MW-01	95-50-1	69	1,2-Dichlorobenzene	BQL	ug/L	U	EPA 8260	0.30	5	1	04/08/09		04/16/09
50-02	5002-MW-01	107-06-2	76	1,2-Dichloroethane	BQL	ug/L	U	EPA 8260	0.12	1	1	04/08/09		04/16/09
50-02	5002-MW-01	78-87-5	82	1,2-Dichloropropane	BQL	ug/L	U	EPA 8260	0.27	1	1	04/08/09		04/16/09
50-02	5002-MW-01	106-46-7	71	1,4-Dichlorobenzene	**5.6**	ug/L		EPA 8260	0.33	1	1	04/08/09		04/16/09
50-02	5002-MW-01	78-93-3	141	2-Butanone (MEK)	BQL	ug/L	U	EPA 8260	0.96	100	1	04/08/09		04/16/09
50-02	5002-MW-01	591-78-6	124	2-Hexanone	BQL	ug/L	U	EPA 8260	0.46	50	1	04/08/09		04/16/09
50-02	5002-MW-01	108-10-1	147	4-Methyl-2-pentanone (MIBK)	BQL	ug/L	U	EPA 8260	0.33	100	1	04/08/09		04/16/09
50-02	5002-MW-01	67-64-1	3	Acetone	BQL	ug/L	U	EPA 8260	2.2	100	1	04/08/09		04/16/09
50-02	5002-MW-01	107-13-1	8	Acrylonitrile	BQL	ug/L	U	EPA 8260	1.9	200	1	04/08/09		04/16/09
50-02	5002-MW-01	71-43-2	16	Benzene	**5.8**	ug/L		EPA 8260	0.25	1	1	04/08/09		04/16/09
50-02	5002-MW-01	74-97-5	28	Bromochloromethane	BQL	ug/L	U	EPA 8260	0.17	3	1	04/08/09		04/16/09
50-02	5002-MW-01	75-27-4	29	Bromodichloromethane	BQL	ug/L	U	EPA 8260	0.18	1	1	04/08/09		04/16/09
50-02	5002-MW-01	75-25-2	30	Bromoform	BQL	ug/L	U	EPA 8260	0.26	3	1	04/08/09		04/16/09
50-02	5002-MW-01	74-83-9	136	Bromomethane	BQL	ug/L	U	EPA 8260	0.29	10	1	04/08/09		04/16/09
50-02	5002-MW-01	75-15-0	35	Carbon disulfide	BQL	ug/L	U	EPA 8260	1.2	100	1	04/08/09		04/16/09
50-02	5002-MW-01	56-23-5	36	Carbon tetrachloride	BQL	ug/L	U	EPA 8260	0.25	1	1	04/08/09		04/16/09
50-02	5002-MW-01	108-90-7	39	Chlorobenzene	3.1	ug/L		EPA 8260	0.23	3	1	04/08/09		04/16/09
50-02	5002-MW-01	75-00-3	41	Chloroethane	BQL	ug/L	U	EPA 8260	0.54	10	1	04/08/09		04/16/09
50-02	5002-MW-01	67-66-3	44	Chloroform	BQL	ug/L	U	EPA 8260	0.14	5	1	04/08/09		04/16/09
50-02	5002-MW-01	74-87-3	137	Chloromethane	BQL	ug/L	U	EPA 8260	0.11	1	1	04/08/09		04/16/09
50-02	5002-MW-01	156-59-2	78	cis-1,2-Dichloroethene	10	ug/L		EPA 8260	0.19	5	1	04/08/09		04/16/09
50-02	5002-MW-01	10061-01-5	86	cis-1,3-Dichloropropene	BQL	ug/L	U	EPA 8260	0.13	1	1	04/08/09		04/16/09
50-02	5002-MW-01	124-48-1	66	Dibromochloromethane	BQL	ug/L	U	EPA 8260	0.21	3	1	04/08/09		04/16/09

Table 1
Analytical Data and Field Parameters
Jackson County Landfill
Jackson County, North Carolina

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE
50-02	5002-MW-01	74-95-3	139	Dibromomethane	BQL	ug/L	U	EPA 8260	0.21	10	1	04/08/09		04/16/09
50-02	5002-MW-01	100-41-4	110	Ethylbenzene	BQL	ug/L	U	EPA 8260	0.30	1	1	04/08/09		04/16/09
50-02	5002-MW-01	74-88-4	142	Iodomethane	BQL	ug/L	U	EPA 8260	0.32	10	1	04/08/09		04/16/09
50-02	5002-MW-01	1330-20-7	359	m&p-Xylene	BQL	ug/L	U	EPA 8260	0.66	NE	1	04/08/09		04/16/09
50-02	5002-MW-01	75-09-2	140	Methylene Chloride	BQL	ug/L	U	EPA 8260	0.97	1	1	04/08/09		04/16/09
50-02	5002-MW-01	95-47-6	408	o-Xylene	BQL	ug/L	U	EPA 8260	0.23	NE	1	04/08/09		04/16/09
50-02	5002-MW-01	100-42-5	186	Styrene	BQL	ug/L	U	EPA 8260	0.26	1	1	04/08/09		04/16/09
50-02	5002-MW-01	127-18-4	192	Tetrachloroethene	0.49	ug/L	J	EPA 8260	0.46	1	1	04/08/09		04/16/09
50-02	5002-MW-01	108-88-3	196	Toluene	BQL	ug/L	U	EPA 8260	0.26	1	1	04/08/09		04/16/09
50-02	5002-MW-01	156-60-5	79	trans-1,2-Dichloroethene	BQL	ug/L	U	EPA 8260	0.49	5	1	04/08/09		04/16/09
50-02	5002-MW-01	10061-02-6	87	trans-1,3-Dichloropropene	BQL	ug/L	U	EPA 8260	0.26	1	1	04/08/09		04/16/09
50-02	5002-MW-01	110-57-6	73	trans-1,4-Dichloro-2-butene	BQL	ug/L	U	EPA 8260	1.0	100	1	04/08/09		04/16/09
50-02	5002-MW-01	79-01-6	201	Trichloroethene	1.2	ug/L		EPA 8260	0.47	1	1	04/08/09		04/16/09
50-02	5002-MW-01	75-69-4	203	Trichlorofluoromethane	BQL	ug/L	U	EPA 8260	0.20	1	1	04/08/09		04/16/09
50-02	5002-MW-01	108-05-4	210	Vinyl acetate	BQL	ug/L	U	EPA 8260	0.35	50	1	04/08/09		04/16/09
50-02	5002-MW-01	75-01-4	211	Vinyl chloride	BQL	ug/L	U	EPA 8260	0.62	1	1	04/08/09		04/16/09
50-02	5002-MW-01	1330-20-7	346	Xylene (Total)	BQL	ug/L	U	EPA 8260	0.66	5	1	04/08/09		04/16/09
50-02	5002-MW-01	NA	356	Dissolved Oxygen	1.21	mg/l				NE		04/08/09		
50-02	5002-MW-01	NA	336	Oxygen Reduction Potential	28.1	mV				NE		04/08/09		
50-02	5002-MW-01	NA	320	pH	5.59	standard				NE		04/08/09		
50-02	5002-MW-01	NA	323	Specific Conductivity	0.236	mS				NE		04/08/09		
50-02	5002-MW-01	NA	325	Temperature	17.51	°C				NE		04/08/09		
50-02	5002-MW-01	NA	330	Turbidity	1.47	NTU				NE		04/08/09		
50-02	5002-MW-01	NA	328	Top of Casing (ft mean sea level)	2171.42	ft				NE		04/08/09		
50-02	5002-MW-01	NA	318	Depth to Water	106.41	ft				NE		04/08/09		
50-02	5002-MW-01	NA	411	Total Well Depth	110.00	ft				NE				
50-02	5002-MW-02	7440-36-0	13	Antimony	BQL	ug/L	U	EPA 6010	2.6	6	1	04/08/09	04/10/09	04/14/09
50-02	5002-MW-02	7440-38-2	14	Arsenic	BQL	ug/L	U	EPA 6010	2.7	10	1	04/08/09	04/10/09	04/14/09
50-02	5002-MW-02	7440-39-3	15	Barium	31.8	ug/L	J	EPA 6010	0.20	100	1	04/08/09	04/10/09	04/14/09
50-02	5002-MW-02	7440-41-7	23	Beryllium	BQL	ug/L	U	EPA 6010	0.10	1	1	04/08/09	04/10/09	04/14/09
50-02	5002-MW-02	7440-43-9	34	Cadmium	BQL	ug/L	U	EPA 6010	0.50	1	1	04/08/09	04/10/09	04/14/09
50-02	5002-MW-02	7440-47-3	51	Chromium	BQL	ug/L	U	EPA 6010	0.40	10	1	04/08/09	04/10/09	04/14/09
50-02	5002-MW-02	7440-48-4	53	Cobalt	9.8	ug/L	J	EPA 6010	0.60	10	1	04/08/09	04/10/09	04/14/09
50-02	5002-MW-02	7440-50-8	54	Copper	BQL	ug/L	U	EPA 6010	0.30	10	1	04/08/09	04/10/09	04/14/09
50-02	5002-MW-02	7439-92-1	131	Lead	BQL	ug/L	U	EPA 6010	4.0	10	1	04/08/09	04/10/09	04/14/09
50-02	5002-MW-02	7439-97-6	132	Mercury	BQL	ug/L	U	EPA 7470	0.070	0.2	1	04/08/09	04/10/09	04/10/09
50-02	5002-MW-02	7440-02-0	152	Nickel	3.3	ug/L	J	EPA 6010	1.7	50	1	04/08/09	04/10/09	04/14/09
50-02	5002-MW-02	7782-49-2	183	Selenium	BQL	ug/L	U	EPA 6010	3.8	10	1	04/08/09	04/10/09	04/14/09
50-02	5002-MW-02	7440-22-4	184	Silver	BQL	ug/L	U	EPA 6010	0.10	10	1	04/08/09	04/10/09	04/14/09
50-02	5002-MW-02	7440-28-0	194	Thallium	BQL	ug/L	U	EPA 6020	0.25	5.5	1	04/08/09	04/16/09	04/20/09
50-02	5002-MW-02	7440-62-2	209	Vanadium	BQL	ug/L	U	EPA 6010	0.20	25	1	04/08/09	04/10/09	04/14/09
50-02	5002-MW-02	7440-66-6	213	Zinc	2.1	ug/L	J	EPA 6010	0.40	10	1	04/08/09	04/10/09	04/14/09
50-02	5002-MW-02	630-20-6	190	1,1,1,2-Tetrachloroethane	BQL	ug/L	U	EPA 8260	0.33	5	1	04/08/09		04/16/09
50-02	5002-MW-02	71-55-6	200	1,1,1-Trichloroethane	BQL	ug/L	U	EPA 8260	0.48	1	1	04/08/09		04/16/09
50-02	5002-MW-02	79-34-5	191	1,1,2,2-Tetrachloroethane	BQL	ug/L	U	EPA 8260	0.40	3	1	04/08/09		04/16/09
50-02	5002-MW-02	79-00-5	202	1,1,2-Trichloroethane	BQL	ug/L	U	EPA 8260	0.29	1	1	04/08/09		04/16/09
50-02	5002-MW-02	75-34-3	75	1,1-Dichloroethane	0.67	ug/L	J	EPA 8260	0.32	5	1	04/08/09		04/16/09

Table 1
Analytical Data and Field Parameters
Jackson County Landfill
Jackson County, North Carolina

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE
50-02	5002-MW-02	75-35-4	77	1,1-Dichloroethene	BQL	ug/L	U	EPA 8260	0.56	5	1	04/08/09		04/16/09
50-02	5002-MW-02	96-18-4	206	1,2,3-Trichloropropane	BQL	ug/L	U	EPA 8260	0.41	1	1	04/08/09		04/16/09
50-02	5002-MW-02	96-12-8	67	1,2-Dibromo-3-chloropropane	BQL	ug/L	U	EPA 8260	2.5	13	1	04/08/09		04/16/09
50-02	5002-MW-02	106-93-4	68	1,2-Dibromoethane (EDB)	BQL	ug/L	U	EPA 8260	0.27	1	1	04/08/09		04/16/09
50-02	5002-MW-02	95-50-1	69	1,2-Dichlorobenzene	BQL	ug/L	U	EPA 8260	0.30	5	1	04/08/09		04/16/09
50-02	5002-MW-02	107-06-2	76	1,2-Dichloroethane	BQL	ug/L	U	EPA 8260	0.12	1	1	04/08/09		04/16/09
50-02	5002-MW-02	78-87-5	82	1,2-Dichloropropane	BQL	ug/L	U	EPA 8260	0.27	1	1	04/08/09		04/16/09
50-02	5002-MW-02	106-46-7	71	1,4-Dichlorobenzene	BQL	ug/L	U	EPA 8260	0.33	1	1	04/08/09		04/16/09
50-02	5002-MW-02	78-93-3	141	2-Butanone (MEK)	BQL	ug/L	U	EPA 8260	0.96	100	1	04/08/09		04/16/09
50-02	5002-MW-02	591-78-6	124	2-Hexanone	BQL	ug/L	U	EPA 8260	0.46	50	1	04/08/09		04/16/09
50-02	5002-MW-02	108-10-1	147	4-Methyl-2-pentanone (MIBK)	BQL	ug/L	U	EPA 8260	0.33	100	1	04/08/09		04/16/09
50-02	5002-MW-02	67-64-1	3	Acetone	BQL	ug/L	U	EPA 8260	2.2	100	1	04/08/09		04/16/09
50-02	5002-MW-02	107-13-1	8	Acrylonitrile	BQL	ug/L	U	EPA 8260	1.9	200	1	04/08/09		04/16/09
50-02	5002-MW-02	71-43-2	16	Benzene	BQL	ug/L	U	EPA 8260	0.25	1	1	04/08/09		04/16/09
50-02	5002-MW-02	74-97-5	28	Bromochloromethane	BQL	ug/L	U	EPA 8260	0.17	3	1	04/08/09		04/16/09
50-02	5002-MW-02	75-27-4	29	Bromodichloromethane	BQL	ug/L	U	EPA 8260	0.18	1	1	04/08/09		04/16/09
50-02	5002-MW-02	75-25-2	30	Bromoform	BQL	ug/L	U	EPA 8260	0.26	3	1	04/08/09		04/16/09
50-02	5002-MW-02	74-83-9	136	Bromomethane	BQL	ug/L	U	EPA 8260	0.29	10	1	04/08/09		04/16/09
50-02	5002-MW-02	75-15-0	35	Carbon disulfide	BQL	ug/L	U	EPA 8260	1.2	100	1	04/08/09		04/16/09
50-02	5002-MW-02	56-23-5	36	Carbon tetrachloride	BQL	ug/L	U	EPA 8260	0.25	1	1	04/08/09		04/16/09
50-02	5002-MW-02	108-90-7	39	Chlorobenzene	BQL	ug/L	U	EPA 8260	0.23	3	1	04/08/09		04/16/09
50-02	5002-MW-02	75-00-3	41	Chloroethane	BQL	ug/L	U	EPA 8260	0.54	10	1	04/08/09		04/16/09
50-02	5002-MW-02	67-66-3	44	Chloroform	BQL	ug/L	U	EPA 8260	0.14	5	1	04/08/09		04/16/09
50-02	5002-MW-02	74-87-3	137	Chloromethane	BQL	ug/L	U	EPA 8260	0.11	1	1	04/08/09		04/16/09
50-02	5002-MW-02	156-59-2	78	cis-1,2-Dichloroethene	0.56	ug/L	J	EPA 8260	0.19	5	1	04/08/09		04/16/09
50-02	5002-MW-02	10061-01-5	86	cis-1,3-Dichloropropene	BQL	ug/L	U	EPA 8260	0.13	1	1	04/08/09		04/16/09
50-02	5002-MW-02	124-48-1	66	Dibromochloromethane	BQL	ug/L	U	EPA 8260	0.21	3	1	04/08/09		04/16/09
50-02	5002-MW-02	74-95-3	139	Dibromomethane	BQL	ug/L	U	EPA 8260	0.21	10	1	04/08/09		04/16/09
50-02	5002-MW-02	100-41-4	110	Ethylbenzene	BQL	ug/L	U	EPA 8260	0.30	1	1	04/08/09		04/16/09
50-02	5002-MW-02	74-88-4	142	Iodomethane	BQL	ug/L	U	EPA 8260	0.32	10	1	04/08/09		04/16/09
50-02	5002-MW-02	1330-20-7	359	m&p-Xylene	BQL	ug/L	U	EPA 8260	0.66	NE	1	04/08/09		04/16/09
50-02	5002-MW-02	75-09-2	140	Methylene Chloride	BQL	ug/L	U	EPA 8260	0.97	1	1	04/08/09		04/16/09
50-02	5002-MW-02	95-47-6	408	o-Xylene	BQL	ug/L	U	EPA 8260	0.23	NE	1	04/08/09		04/16/09
50-02	5002-MW-02	100-42-5	186	Styrene	BQL	ug/L	U	EPA 8260	0.26	1	1	04/08/09		04/16/09
50-02	5002-MW-02	127-18-4	192	Tetrachloroethene	BQL	ug/L	U	EPA 8260	0.46	1	1	04/08/09		04/16/09
50-02	5002-MW-02	108-88-3	196	Toluene	BQL	ug/L	U	EPA 8260	0.26	1	1	04/08/09		04/16/09
50-02	5002-MW-02	156-60-5	79	trans-1,2-Dichloroethene	BQL	ug/L	U	EPA 8260	0.49	5	1	04/08/09		04/16/09
50-02	5002-MW-02	10061-02-6	87	trans-1,3-Dichloropropene	BQL	ug/L	U	EPA 8260	0.26	1	1	04/08/09		04/16/09
50-02	5002-MW-02	110-57-6	73	trans-1,4-Dichloro-2-butene	BQL	ug/L	U	EPA 8260	1.0	100	1	04/08/09		04/16/09
50-02	5002-MW-02	79-01-6	201	Trichloroethene	BQL	ug/L	U	EPA 8260	0.47	1	1	04/08/09		04/16/09
50-02	5002-MW-02	75-69-4	203	Trichlorofluoromethane	BQL	ug/L	U	EPA 8260	0.20	1	1	04/08/09		04/16/09
50-02	5002-MW-02	108-05-4	210	Vinyl acetate	BQL	ug/L	U	EPA 8260	0.35	50	1	04/08/09		04/16/09
50-02	5002-MW-02	75-01-4	211	Vinyl chloride	BQL	ug/L	U	EPA 8260	0.62	1	1	04/08/09		04/16/09
50-02	5002-MW-02	1330-20-7	346	Xylene (Total)	BQL	ug/L	U	EPA 8260	0.66	5	1	04/08/09		04/16/09
50-02	5002-MW-02	NA	356	Dissolved Oxygen	56.8	mg/l				NE		04/08/09		
50-02	5002-MW-02	NA	336	Oxygen Reduction Potential	301.1	mV				NE		04/08/09		
50-02	5002-MW-02	NA	320	pH	5.97	standard				NE		04/08/09		
50-02	5002-MW-02	NA	323	Specific Conductivity	0.158	mS				NE		04/08/09		

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FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE
50-02	5002-MW-02	NA	325	Temperature	12.77	°C				NE		04/08/09		
50-02	5002-MW-02	NA	330	Turbidity	0.93	NTU				NE		04/08/09		
50-02	5002-MW-02	NA	328	Top of Casing (ft mean sea level)	2015.38	ft				NE		04/08/09		
50-02	5002-MW-02	NA	318	Depth to Water	26.45	ft				NE		04/08/09		
50-02	5002-MW-02	NA	411	Total Well Depth	60.00	ft				NE				
50-02	5002-MW-03	7440-36-0	13	Antimony	BQL	ug/L	U	EPA 6010	2.6	6	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-03	7440-38-2	14	Arsenic	BQL	ug/L	U	EPA 6010	2.7	10	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-03	7440-39-3	15	Barium	141	ug/L		EPA 6010	0.20	100	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-03	7440-41-7	23	Beryllium	BQL	ug/L	U	EPA 6010	0.10	1	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-03	7440-43-9	34	Cadmium	BQL	ug/L	U	EPA 6010	0.50	1	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-03	7440-47-3	51	Chromium	0.52	ug/L	J	EPA 6010	0.40	10	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-03	7440-48-4	53	Cobalt	44.4	ug/L		EPA 6010	0.60	10	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-03	7440-50-8	54	Copper	BQL	ug/L	U	EPA 6010	0.30	10	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-03	7439-92-1	131	Lead	BQL	ug/L	U	EPA 6010	4.0	10	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-03	7439-97-6	132	Mercury	0.091	ug/L	J	EPA 7470	0.070	0.2	1	04/07/09	04/10/09	04/10/09
50-02	5002-MW-03	7440-02-0	152	Nickel	6.2	ug/L	J	EPA 6010	1.7	50	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-03	7782-49-2	183	Selenium	BQL	ug/L	U	EPA 6010	3.8	10	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-03	7440-22-4	184	Silver	BQL	ug/L	U	EPA 6010	0.10	10	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-03	7440-28-0	194	Thallium	BQL	ug/L	U	EPA 6020	0.25	5.5	1	04/07/09	04/15/09	04/20/09
50-02	5002-MW-03	7440-62-2	209	Vanadium	BQL	ug/L	U	EPA 6010	0.20	25	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-03	7440-66-6	213	Zinc	39.4	ug/L		EPA 6010	0.40	10	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-03	630-20-6	190	1,1,1,2-Tetrachloroethane	BQL	ug/L	U	EPA 8260	0.33	5	1	04/07/09		04/13/09
50-02	5002-MW-03	71-55-6	200	1,1,1-Trichloroethane	BQL	ug/L	U	EPA 8260	0.48	1	1	04/07/09		04/13/09
50-02	5002-MW-03	79-34-5	191	1,1,2,2-Tetrachloroethane	BQL	ug/L	U	EPA 8260	0.40	3	1	04/07/09		04/13/09
50-02	5002-MW-03	79-00-5	202	1,1,2-Trichloroethane	BQL	ug/L	U	EPA 8260	0.29	1	1	04/07/09		04/13/09
50-02	5002-MW-03	75-34-3	75	1,1-Dichloroethane	1.0	ug/L	J	EPA 8260	0.32	5	1	04/07/09		04/13/09
50-02	5002-MW-03	75-35-4	77	1,1-Dichloroethene	BQL	ug/L	U	EPA 8260	0.56	5	1	04/07/09		04/13/09
50-02	5002-MW-03	96-18-4	206	1,2,3-Trichloropropane	BQL	ug/L	U	EPA 8260	0.41	1	1	04/07/09		04/13/09
50-02	5002-MW-03	96-12-8	67	1,2-Dibromo-3-chloropropane	BQL	ug/L	U	EPA 8260	2.5	13	1	04/07/09		04/13/09
50-02	5002-MW-03	106-93-4	68	1,2-Dibromoethane (EDB)	BQL	ug/L	U	EPA 8260	0.27	1	1	04/07/09		04/13/09
50-02	5002-MW-03	95-50-1	69	1,2-Dichlorobenzene	BQL	ug/L	U	EPA 8260	0.30	5	1	04/07/09		04/13/09
50-02	5002-MW-03	107-06-2	76	1,2-Dichloroethane	BQL	ug/L	U	EPA 8260	0.12	1	1	04/07/09		04/13/09
50-02	5002-MW-03	78-87-5	82	1,2-Dichloropropane	BQL	ug/L	U	EPA 8260	0.27	1	1	04/07/09		04/13/09
50-02	5002-MW-03	106-46-7	71	1,4-Dichlorobenzene	**4.9**	ug/L		EPA 8260	0.33	1	1	04/07/09		04/13/09
50-02	5002-MW-03	78-93-3	141	2-Butanone (MEK)	BQL	ug/L	U	EPA 8260	0.96	100	1	04/07/09		04/13/09
50-02	5002-MW-03	591-78-6	124	2-Hexanone	BQL	ug/L	U	EPA 8260	0.46	50	1	04/07/09		04/13/09
50-02	5002-MW-03	108-10-1	147	4-Methyl-2-pentanone (MIBK)	BQL	ug/L	U	EPA 8260	0.33	100	1	04/07/09		04/13/09
50-02	5002-MW-03	67-64-1	3	Acetone	BQL	ug/L	U	EPA 8260	2.2	100	1	04/07/09		04/13/09
50-02	5002-MW-03	107-13-1	8	Acrylonitrile	BQL	ug/L	U	EPA 8260	1.9	200	1	04/07/09		04/13/09
50-02	5002-MW-03	71-43-2	16	Benzene	0.79	ug/L	J	EPA 8260	0.25	1	1	04/07/09		04/13/09
50-02	5002-MW-03	74-97-5	28	Bromochloromethane	BQL	ug/L	U	EPA 8260	0.17	3	1	04/07/09		04/13/09
50-02	5002-MW-03	75-27-4	29	Bromodichloromethane	BQL	ug/L	U	EPA 8260	0.18	1	1	04/07/09		04/13/09
50-02	5002-MW-03	75-25-2	30	Bromoform	BQL	ug/L	U	EPA 8260	0.26	3	1	04/07/09		04/13/09
50-02	5002-MW-03	74-83-9	136	Bromomethane	BQL	ug/L	U	EPA 8260	0.29	10	1	04/07/09		04/13/09
50-02	5002-MW-03	75-15-0	35	Carbon disulfide	BQL	ug/L	U	EPA 8260	1.2	100	1	04/07/09		04/13/09
50-02	5002-MW-03	56-23-5	36	Carbon tetrachloride	BQL	ug/L	U	EPA 8260	0.25	1	1	04/07/09		04/13/09
50-02	5002-MW-03	108-90-7	39	Chlorobenzene	6.0	ug/L		EPA 8260	0.23	3	1	04/07/09		04/13/09

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50-02	5002-MW-03	75-00-3	41	Chloroethane	BQL	ug/L	U	EPA 8260	0.54	10	1	04/07/09		04/13/09
50-02	5002-MW-03	67-66-3	44	Chloroform	BQL	ug/L	U	EPA 8260	0.14	5	1	04/07/09		04/13/09
50-02	5002-MW-03	74-87-3	137	Chloromethane	BQL	ug/L	U	EPA 8260	0.11	1	1	04/07/09		04/13/09
50-02	5002-MW-03	156-59-2	78	cis-1,2-Dichloroethene	2.2	ug/L	J	EPA 8260	0.19	5	1	04/07/09		04/13/09
50-02	5002-MW-03	10061-01-5	86	cis-1,3-Dichloropropene	BQL	ug/L	U	EPA 8260	0.13	1	1	04/07/09		04/13/09
50-02	5002-MW-03	124-48-1	66	Dibromochloromethane	BQL	ug/L	U	EPA 8260	0.21	3	1	04/07/09		04/13/09
50-02	5002-MW-03	74-95-3	139	Dibromomethane	BQL	ug/L	U	EPA 8260	0.21	10	1	04/07/09		04/13/09
50-02	5002-MW-03	100-41-4	110	Ethylbenzene	BQL	ug/L	U	EPA 8260	0.30	1	1	04/07/09		04/13/09
50-02	5002-MW-03	74-88-4	142	Iodomethane	BQL	ug/L	U	EPA 8260	0.32	10	1	04/07/09		04/13/09
50-02	5002-MW-03	1330-20-7	359	m&p-Xylene	BQL	ug/L	U	EPA 8260	0.66	NE	1	04/07/09		04/13/09
50-02	5002-MW-03	75-09-2	140	Methylene Chloride	BQL	ug/L	U	EPA 8260	0.97	1	1	04/07/09		04/13/09
50-02	5002-MW-03	95-47-6	408	o-Xylene	BQL	ug/L	U	EPA 8260	0.23	NE	1	04/07/09		04/13/09
50-02	5002-MW-03	100-42-5	186	Styrene	BQL	ug/L	U	EPA 8260	0.26	1	1	04/07/09		04/13/09
50-02	5002-MW-03	127-18-4	192	Tetrachloroethene	BQL	ug/L	U	EPA 8260	0.46	1	1	04/07/09		04/13/09
50-02	5002-MW-03	108-88-3	196	Toluene	BQL	ug/L	U	EPA 8260	0.26	1	1	04/07/09		04/13/09
50-02	5002-MW-03	156-60-5	79	trans-1,2-Dichloroethene	BQL	ug/L	U	EPA 8260	0.49	5	1	04/07/09		04/13/09
50-02	5002-MW-03	10061-02-6	87	trans-1,3-Dichloropropene	BQL	ug/L	U	EPA 8260	0.26	1	1	04/07/09		04/13/09
50-02	5002-MW-03	110-57-6	73	trans-1,4-Dichloro-2-butene	BQL	ug/L	U	EPA 8260	1.0	100	1	04/07/09		04/13/09
50-02	5002-MW-03	79-01-6	201	Trichloroethene	BQL	ug/L	U	EPA 8260	0.47	1	1	04/07/09		04/13/09
50-02	5002-MW-03	75-69-4	203	Trichlorofluoromethane	BQL	ug/L	U	EPA 8260	0.20	1	1	04/07/09		04/13/09
50-02	5002-MW-03	108-05-4	210	Vinyl acetate	BQL	ug/L	U	EPA 8260	0.35	50	1	04/07/09		04/13/09
50-02	5002-MW-03	75-01-4	211	Vinyl chloride	BQL	ug/L	U	EPA 8260	0.62	1	1	04/07/09		04/13/09
50-02	5002-MW-03	1330-20-7	346	Xylene (Total)	BQL	ug/L	U	EPA 8260	0.66	5	1	04/07/09		04/13/09
50-02	5002-MW-03	NA	356	Dissolved Oxygen	1.15	mg/l				NE		04/07/09		
50-02	5002-MW-03	NA	336	Oxygen Reduction Potential	211.6	mV				NE		04/07/09		
50-02	5002-MW-03	NA	320	pH	5.45	standard				NE		04/07/09		
50-02	5002-MW-03	NA	323	Specific Conductivity	0.320	mS				NE		04/07/09		
50-02	5002-MW-03	NA	325	Temperature	13.85	°C				NE		04/07/09		
50-02	5002-MW-03	NA	330	Turbidity	0.00	NTU				NE		04/07/09		
50-02	5002-MW-03	NA	328	Top of Casing (ft mean sea level)	2045.53	ft				NE		04/07/09		
50-02	5002-MW-03	NA	318	Depth to Water	50.11	ft				NE		04/07/09		
50-02	5002-MW-03	NA	411	Total Well Depth	63.50	ft				NE				
50-02	DUPLICATE/MW-03	7440-36-0	13	Antimony	BQL	ug/L	U	EPA 6010	2.6	6	1	04/07/09	04/09/09	04/14/09
50-02	DUPLICATE/MW-03	7440-38-2	14	Arsenic	BQL	ug/L	U	EPA 6010	2.7	10	1	04/07/09	04/09/09	04/14/09
50-02	DUPLICATE/MW-03	7440-39-3	15	Barium	135	ug/L		EPA 6010	0.20	100	1	04/07/09	04/09/09	04/14/09
50-02	DUPLICATE/MW-03	7440-41-7	23	Beryllium	BQL	ug/L	U	EPA 6010	0.10	1	1	04/07/09	04/09/09	04/14/09
50-02	DUPLICATE/MW-03	7440-43-9	34	Cadmium	BQL	ug/L	U	EPA 6010	0.50	1	1	04/07/09	04/09/09	04/14/09
50-02	DUPLICATE/MW-03	7440-47-3	51	Chromium	BQL	ug/L	U	EPA 6010	0.40	10	1	04/07/09	04/09/09	04/14/09
50-02	DUPLICATE/MW-03	7440-48-4	53	Cobalt	44.7	ug/L		EPA 6010	0.60	10	1	04/07/09	04/09/09	04/14/09
50-02	DUPLICATE/MW-03	7440-50-8	54	Copper	BQL	ug/L	U	EPA 6010	0.30	10	1	04/07/09	04/09/09	04/14/09
50-02	DUPLICATE/MW-03	7439-92-1	131	Lead	BQL	ug/L	U	EPA 6010	4.0	10	1	04/07/09	04/09/09	04/14/09
50-02	DUPLICATE/MW-03	7439-97-6	132	Mercury	0.10	ug/L	J	EPA 7470	0.070	0.2	1	04/07/09	04/10/09	04/10/09
50-02	DUPLICATE/MW-03	7440-02-0	152	Nickel	6.0	ug/L	J	EPA 6010	1.7	50	1	04/07/09	04/09/09	04/14/09
50-02	DUPLICATE/MW-03	7782-49-2	183	Selenium	BQL	ug/L	U	EPA 6010	3.8	10	1	04/07/09	04/09/09	04/14/09
50-02	DUPLICATE/MW-03	7440-22-4	184	Silver	BQL	ug/L	U	EPA 6010	0.10	10	1	04/07/09	04/09/09	04/14/09
50-02	DUPLICATE/MW-03	7440-28-0	194	Thallium	BQL	ug/L	U	EPA 6020	0.25	5.5	1	04/07/09	04/15/09	04/20/09
50-02	DUPLICATE/MW-03	7440-62-2	209	Vanadium	BQL	ug/L	U	EPA 6010	0.20	25	1	04/07/09	04/09/09	04/14/09

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Jackson County, North Carolina

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE
50-02	DUPLICATE/MW-03	7440-66-6	213	Zinc	34.9	ug/L		EPA 6010	0.40	10	1	04/07/09	04/09/09	04/14/09
50-02	DUPLICATE/MW-03	630-20-6	190	1,1,1,2-Tetrachloroethane	BQL	ug/L	U	EPA 8260	0.33	5	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	71-55-6	200	1,1,1-Trichloroethane	BQL	ug/L	U	EPA 8260	0.48	1	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	79-34-5	191	1,1,2,2-Tetrachloroethane	BQL	ug/L	U	EPA 8260	0.40	3	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	79-00-5	202	1,1,2-Trichloroethane	BQL	ug/L	U	EPA 8260	0.29	1	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	75-34-3	75	1,1-Dichloroethane	1.1	ug/L	J	EPA 8260	0.32	5	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	75-35-4	77	1,1-Dichloroethene	BQL	ug/L	U	EPA 8260	0.56	5	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	96-18-4	206	1,2,3-Trichloropropane	BQL	ug/L	U	EPA 8260	0.41	1	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	96-12-8	67	1,2-Dibromo-3-chloropropane	BQL	ug/L	U	EPA 8260	2.5	13	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	106-93-4	68	1,2-Dibromoethane (EDB)	BQL	ug/L	U	EPA 8260	0.27	1	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	95-50-1	69	1,2-Dichlorobenzene	BQL	ug/L	U	EPA 8260	0.30	5	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	107-06-2	76	1,2-Dichloroethane	BQL	ug/L	U	EPA 8260	0.12	1	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	78-87-5	82	1,2-Dichloropropane	BQL	ug/L	U	EPA 8260	0.27	1	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	106-46-7	71	1,4-Dichlorobenzene	**5.3**	ug/L		EPA 8260	0.33	1	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	78-93-3	141	2-Butanone (MEK)	BQL	ug/L	U	EPA 8260	0.96	100	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	591-78-6	124	2-Hexanone	BQL	ug/L	U	EPA 8260	0.46	50	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	108-10-1	147	4-Methyl-2-pentanone (MIBK)	BQL	ug/L	U	EPA 8260	0.33	100	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	67-64-1	3	Acetone	BQL	ug/L	U	EPA 8260	2.2	100	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	107-13-1	8	Acrylonitrile	BQL	ug/L	U	EPA 8260	1.9	200	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	71-43-2	16	Benzene	0.80	ug/L	J	EPA 8260	0.25	1	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	74-97-5	28	Bromochloromethane	BQL	ug/L	U	EPA 8260	0.17	3	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	75-27-4	29	Bromodichloromethane	BQL	ug/L	U	EPA 8260	0.18	1	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	75-25-2	30	Bromoform	BQL	ug/L	U	EPA 8260	0.26	3	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	74-83-9	136	Bromomethane	BQL	ug/L	U	EPA 8260	0.29	10	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	75-15-0	35	Carbon disulfide	BQL	ug/L	U	EPA 8260	1.2	100	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	56-23-5	36	Carbon tetrachloride	BQL	ug/L	U	EPA 8260	0.25	1	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	108-90-7	39	Chlorobenzene	6.3	ug/L		EPA 8260	0.23	3	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	75-00-3	41	Chloroethane	BQL	ug/L	U	EPA 8260	0.54	10	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	67-66-3	44	Chloroform	BQL	ug/L	U	EPA 8260	0.14	5	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	74-87-3	137	Chloromethane	BQL	ug/L	U	EPA 8260	0.11	1	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	156-59-2	78	cis-1,2-Dichloroethene	2.2	ug/L	J	EPA 8260	0.19	5	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	10061-01-5	86	cis-1,3-Dichloropropene	BQL	ug/L	U	EPA 8260	0.13	1	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	124-48-1	66	Dibromochloromethane	BQL	ug/L	U	EPA 8260	0.21	3	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	74-95-3	139	Dibromomethane	BQL	ug/L	U	EPA 8260	0.21	10	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	100-41-4	110	Ethylbenzene	BQL	ug/L	U	EPA 8260	0.30	1	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	74-88-4	142	Iodomethane	BQL	ug/L	U	EPA 8260	0.32	10	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	1330-20-7	359	m&p-Xylene	BQL	ug/L	U	EPA 8260	0.66	NE	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	75-09-2	140	Methylene Chloride	BQL	ug/L	U	EPA 8260	0.97	1	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	95-47-6	408	o-Xylene	BQL	ug/L	U	EPA 8260	0.23	NE	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	100-42-5	186	Styrene	BQL	ug/L	U	EPA 8260	0.26	1	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	127-18-4	192	Tetrachloroethene	BQL	ug/L	U	EPA 8260	0.46	1	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	108-88-3	196	Toluene	BQL	ug/L	U	EPA 8260	0.26	1	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	156-60-5	79	trans-1,2-Dichloroethene	BQL	ug/L	U	EPA 8260	0.49	5	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	10061-02-6	87	trans-1,3-Dichloropropene	BQL	ug/L	U	EPA 8260	0.26	1	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	110-57-6	73	trans-1,4-Dichloro-2-butene	BQL	ug/L	U	EPA 8260	1.0	100	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	79-01-6	201	Trichloroethene	BQL	ug/L	U	EPA 8260	0.47	1	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	75-69-4	203	Trichlorofluoromethane	BQL	ug/L	U	EPA 8260	0.20	1	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	108-05-4	210	Vinyl acetate	BQL	ug/L	U	EPA 8260	0.35	50	1	04/07/09		04/13/09

Table 1
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Jackson County Landfill
Jackson County, North Carolina

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE
50-02	DUPLICATE/MW-03	75-01-4	211	Vinyl chloride	BQL	ug/L	U	EPA 8260	0.62	1	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	1330-20-7	346	Xylene (Total)	BQL	ug/L	U	EPA 8260	0.66	5	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	NA	336	Oxygen Reduction Potential	211.6	mV				NE		04/07/09		
50-02	DUPLICATE/MW-03	NA	320	pH	5.45	standard				NE		04/07/09		
50-02	DUPLICATE/MW-03	NA	323	Specific Conductivity	0.320	mS				NE		04/07/09		
50-02	DUPLICATE/MW-03	NA	325	Temperature	13.85	°C				NE		04/07/09		
50-02	DUPLICATE/MW-03	NA	330	Turbidity	0.00	NTU				NE		04/07/09		
50-02	DUPLICATE/MW-03	NA	328	Top of Casing (ft mean sea level)	2045.53	ft				NE		04/07/09		
50-02	DUPLICATE/MW-03	NA	318	Depth to Water	50.11	ft				NE		04/07/09		
50-02	DUPLICATE/MW-03	NA	411	Total Well Depth	63.50	ft				NE				
		NA												
50-02	5002-MW-04	7440-36-0	13	Antimony	BQL	ug/L	U	EPA 6010	2.6	6	1	04/08/09	04/10/09	04/14/09
50-02	5002-MW-04	7440-38-2	14	Arsenic	3.7	ug/L	J	EPA 6010	2.7	10	1	04/08/09	04/10/09	04/14/09
50-02	5002-MW-04	7440-39-3	15	Barium	108	ug/L		EPA 6010	0.20	100	1	04/08/09	04/10/09	04/14/09
50-02	5002-MW-04	7440-41-7	23	Beryllium	BQL	ug/L	U	EPA 6010	0.10	1	1	04/08/09	04/10/09	04/14/09
50-02	5002-MW-04	7440-43-9	34	Cadmium	BQL	ug/L	U	EPA 6010	0.50	1	1	04/08/09	04/10/09	04/14/09
50-02	5002-MW-04	7440-47-3	51	Chromium	BQL	ug/L	U	EPA 6010	0.40	10	1	04/08/09	04/10/09	04/14/09
50-02	5002-MW-04	7440-48-4	53	Cobalt	3.6	ug/L	J	EPA 6010	0.60	10	1	04/08/09	04/10/09	04/14/09
50-02	5002-MW-04	7440-50-8	54	Copper	BQL	ug/L	U	EPA 6010	0.30	10	1	04/08/09	04/10/09	04/14/09
50-02	5002-MW-04	7439-92-1	131	Lead	BQL	ug/L	U	EPA 6010	4.0	10	1	04/08/09	04/10/09	04/14/09
50-02	5002-MW-04	7439-97-6	132	Mercury	0.25	ug/L		EPA 7470	0.070	0.2	1	04/08/09	04/10/09	04/10/09
50-02	5002-MW-04	7440-02-0	152	Nickel	1.7	ug/L	J	EPA 6010	1.7	50	1	04/08/09	04/10/09	04/14/09
50-02	5002-MW-04	7782-49-2	183	Selenium	BQL	ug/L	U	EPA 6010	3.8	10	1	04/08/09	04/10/09	04/14/09
50-02	5002-MW-04	7440-22-4	184	Silver	BQL	ug/L	U	EPA 6010	0.10	10	1	04/08/09	04/10/09	04/14/09
50-02	5002-MW-04	7440-28-0	194	Thallium	BQL	ug/L	U	EPA 6020	0.25	5.5	1	04/08/09	04/16/09	04/20/09
50-02	5002-MW-04	7440-62-2	209	Vanadium	BQL	ug/L	U	EPA 6010	0.20	25	1	04/08/09	04/10/09	04/14/09
50-02	5002-MW-04	7440-66-6	213	Zinc	BQL	ug/L	U	EPA 6010	0.40	10	1	04/08/09	04/10/09	04/14/09
50-02	5002-MW-04	630-20-6	190	1,1,1,2-Tetrachloroethane	BQL	ug/L	U	EPA 8260	0.33	5	1	04/08/09		04/16/09
50-02	5002-MW-04	71-55-6	200	1,1,1-Trichloroethane	BQL	ug/L	U	EPA 8260	0.48	1	1	04/08/09		04/16/09
50-02	5002-MW-04	79-34-5	191	1,1,2,2-Tetrachloroethane	BQL	ug/L	U	EPA 8260	0.40	3	1	04/08/09		04/16/09
50-02	5002-MW-04	79-00-5	202	1,1,2-Trichloroethane	BQL	ug/L	U	EPA 8260	0.29	1	1	04/08/09		04/16/09
50-02	5002-MW-04	75-34-3	75	1,1-Dichloroethane	0.44	ug/L	J	EPA 8260	0.32	5	1	04/08/09		04/16/09
50-02	5002-MW-04	75-35-4	77	1,1-Dichloroethene	BQL	ug/L	U	EPA 8260	0.56	5	1	04/08/09		04/16/09
50-02	5002-MW-04	96-18-4	206	1,2,3-Trichloropropane	BQL	ug/L	U	EPA 8260	0.41	1	1	04/08/09		04/16/09
50-02	5002-MW-04	96-12-8	67	1,2-Dibromo-3-chloropropane	BQL	ug/L	U	EPA 8260	2.5	13	1	04/08/09		04/16/09
50-02	5002-MW-04	106-93-4	68	1,2-Dibromoethane (EDB)	BQL	ug/L	U	EPA 8260	0.27	1	1	04/08/09		04/16/09
50-02	5002-MW-04	95-50-1	69	1,2-Dichlorobenzene	0.40	ug/L	J	EPA 8260	0.30	5	1	04/08/09		04/16/09
50-02	5002-MW-04	107-06-2	76	1,2-Dichloroethane	BQL	ug/L	U	EPA 8260	0.12	1	1	04/08/09		04/16/09
50-02	5002-MW-04	78-87-5	82	1,2-Dichloropropane	BQL	ug/L	U	EPA 8260	0.27	1	1	04/08/09		04/16/09
50-02	5002-MW-04	106-46-7	71	1,4-Dichlorobenzene	**7.1**	ug/L		EPA 8260	0.33	1	1	04/08/09		04/16/09
50-02	5002-MW-04	78-93-3	141	2-Butanone (MEK)	BQL	ug/L	U	EPA 8260	0.96	100	1	04/08/09		04/16/09
50-02	5002-MW-04	591-78-6	124	2-Hexanone	BQL	ug/L	U	EPA 8260	0.46	50	1	04/08/09		04/16/09
50-02	5002-MW-04	108-10-1	147	4-Methyl-2-pentanone (MIBK)	BQL	ug/L	U	EPA 8260	0.33	100	1	04/08/09		04/16/09
50-02	5002-MW-04	67-64-1	3	Acetone	BQL	ug/L	U	EPA 8260	2.2	100	1	04/08/09		04/16/09
50-02	5002-MW-04	107-13-1	8	Acrylonitrile	BQL	ug/L	U	EPA 8260	1.9	200	1	04/08/09		04/16/09
50-02	5002-MW-04	71-43-2	16	Benzene	**1.2**	ug/L		EPA 8260	0.25	1	1	04/08/09		04/16/09
50-02	5002-MW-04	74-97-5	28	Bromochloromethane	BQL	ug/L	U	EPA 8260	0.17	3	1	04/08/09		04/16/09
50-02	5002-MW-04	75-27-4	29	Bromodichloromethane	BQL	ug/L	U	EPA 8260	0.18	1	1	04/08/09		04/16/09

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Jackson County, North Carolina

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE
50-02	5002-MW-04	75-25-2	30	Bromoform	BQL	ug/L	U	EPA 8260	0.26	3	1	04/08/09		04/16/09
50-02	5002-MW-04	74-83-9	136	Bromomethane	BQL	ug/L	U	EPA 8260	0.29	10	1	04/08/09		04/16/09
50-02	5002-MW-04	75-15-0	35	Carbon disulfide	BQL	ug/L	U	EPA 8260	1.2	100	1	04/08/09		04/16/09
50-02	5002-MW-04	56-23-5	36	Carbon tetrachloride	BQL	ug/L	U	EPA 8260	0.25	1	1	04/08/09		04/16/09
50-02	5002-MW-04	108-90-7	39	Chlorobenzene	5.5	ug/L		EPA 8260	0.23	3	1	04/08/09		04/16/09
50-02	5002-MW-04	75-00-3	41	Chloroethane	BQL	ug/L	U	EPA 8260	0.54	10	1	04/08/09		04/16/09
50-02	5002-MW-04	67-66-3	44	Chloroform	BQL	ug/L	U	EPA 8260	0.14	5	1	04/08/09		04/16/09
50-02	5002-MW-04	74-87-3	137	Chloromethane	BQL	ug/L	U	EPA 8260	0.11	1	1	04/08/09		04/16/09
50-02	5002-MW-04	156-59-2	78	cis-1,2-Dichloroethene	9.6	ug/L		EPA 8260	0.19	5	1	04/08/09		04/16/09
50-02	5002-MW-04	10061-01-5	86	cis-1,3-Dichloropropene	BQL	ug/L	U	EPA 8260	0.13	1	1	04/08/09		04/16/09
50-02	5002-MW-04	124-48-1	66	Dibromochloromethane	BQL	ug/L	U	EPA 8260	0.21	3	1	04/08/09		04/16/09
50-02	5002-MW-04	74-95-3	139	Dibromomethane	BQL	ug/L	U	EPA 8260	0.21	10	1	04/08/09		04/16/09
50-02	5002-MW-04	100-41-4	110	Ethylbenzene	BQL	ug/L	U	EPA 8260	0.30	1	1	04/08/09		04/16/09
50-02	5002-MW-04	74-88-4	142	Iodomethane	BQL	ug/L	U	EPA 8260	0.32	10	1	04/08/09		04/16/09
50-02	5002-MW-04	1330-20-7	359	m&p-Xylene	BQL	ug/L	U	EPA 8260	0.66	NE	1	04/08/09		04/16/09
50-02	5002-MW-04	75-09-2	140	Methylene Chloride	BQL	ug/L	U	EPA 8260	0.97	1	1	04/08/09		04/16/09
50-02	5002-MW-04	95-47-6	408	o-Xylene	BQL	ug/L	U	EPA 8260	0.23	NE	1	04/08/09		04/16/09
50-02	5002-MW-04	100-42-5	186	Styrene	BQL	ug/L	U	EPA 8260	0.26	1	1	04/08/09		04/16/09
50-02	5002-MW-04	127-18-4	192	Tetrachloroethene	BQL	ug/L	U	EPA 8260	0.46	1	1	04/08/09		04/16/09
50-02	5002-MW-04	108-88-3	196	Toluene	BQL	ug/L	U	EPA 8260	0.26	1	1	04/08/09		04/16/09
50-02	5002-MW-04	156-60-5	79	trans-1,2-Dichloroethene	BQL	ug/L	U	EPA 8260	0.49	5	1	04/08/09		04/16/09
50-02	5002-MW-04	10061-02-6	87	trans-1,3-Dichloropropene	BQL	ug/L	U	EPA 8260	0.26	1	1	04/08/09		04/16/09
50-02	5002-MW-04	110-57-6	73	trans-1,4-Dichloro-2-butene	BQL	ug/L	U	EPA 8260	1.0	100	1	04/08/09		04/16/09
50-02	5002-MW-04	79-01-6	201	Trichloroethene	BQL	ug/L	U	EPA 8260	0.47	1	1	04/08/09		04/16/09
50-02	5002-MW-04	75-69-4	203	Trichlorofluoromethane	BQL	ug/L	U	EPA 8260	0.20	1	1	04/08/09		04/16/09
50-02	5002-MW-04	108-05-4	210	Vinyl acetate	BQL	ug/L	U	EPA 8260	0.35	50	1	04/08/09		04/16/09
50-02	5002-MW-04	75-01-4	211	Vinyl chloride	**0.78**	ug/L	J	EPA 8260	0.62	1	1	04/08/09		04/16/09
50-02	5002-MW-04	1330-20-7	346	Xylene (Total)	BQL	ug/L	U	EPA 8260	0.66	5	1	04/08/09		04/16/09
50-02	5002-MW-04	NA	356	Dissolved Oxygen	0.39	mg/l				NE		04/08/09		
50-02	5002-MW-04	NA	336	Oxygen Reduction Potential	528.2	mV				NE		04/08/09		
50-02	5002-MW-04	NA	320	pH	5.29	standard				NE		04/08/09		
50-02	5002-MW-04	NA	323	Specific Conductivity	0.540	mS				NE		04/08/09		
50-02	5002-MW-04	NA	325	Temperature	14.35	°C				NE		04/08/09		
50-02	5002-MW-04	NA	330	Turbidity	0.53	NTU				NE		04/08/09		
50-02	5002-MW-04	NA	328	Top of Casing (ft mean sea level)	1980.77	ft				NE		04/08/09		
50-02	5002-MW-04	NA	318	Depth to Water	28.45	ft				NE		04/08/09		
50-02	5002-MW-04	NA	411	Total Well Depth	40.00	ft				NE				
50-02	5002-MW-05	7440-36-0	13	Antimony	BQL	ug/L	U	EPA 6010	2.6	6	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-05	7440-38-2	14	Arsenic	BQL	ug/L	U	EPA 6010	2.7	10	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-05	7440-39-3	15	Barium	161	ug/L		EPA 6010	0.20	100	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-05	7440-41-7	23	Beryllium	BQL	ug/L	U	EPA 6010	0.10	1	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-05	7440-43-9	34	Cadmium	**3.4**	ug/L		EPA 6010	0.50	1	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-05	7440-47-3	51	Chromium	BQL	ug/L	U	EPA 6010	0.40	10	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-05	7440-48-4	53	Cobalt	4.9	ug/L	J	EPA 6010	0.60	10	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-05	7440-50-8	54	Copper	BQL	ug/L	U	EPA 6010	0.30	10	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-05	7439-92-1	131	Lead	BQL	ug/L	U	EPA 6010	4.0	10	1	04/07/09	04/09/09	04/14/09

Table 1
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Jackson County Landfill
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FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE
50-02	5002-MW-05	7439-97-6	132	Mercury	0.12	ug/L	J	EPA 7470	0.070	0.2	1	04/07/09	04/10/09	04/10/09
50-02	5002-MW-05	7440-02-0	152	Nickel	BQL	ug/L	U	EPA 6010	1.7	50	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-05	7782-49-2	183	Selenium	BQL	ug/L	U	EPA 6010	3.8	10	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-05	7440-22-4	184	Silver	BQL	ug/L	U	EPA 6010	0.10	10	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-05	7440-28-0	194	Thallium	BQL	ug/L	U	EPA 6020	0.25	5.5	1	04/07/09	04/15/09	04/20/09
50-02	5002-MW-05	7440-62-2	209	Vanadium	BQL	ug/L	U	EPA 6010	0.20	25	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-05	7440-66-6	213	Zinc	BQL	ug/L	U	EPA 6010	0.40	10	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-05	630-20-6	190	1,1,1,2-Tetrachloroethane	BQL	ug/L	U	EPA 8260	0.33	5	1	04/07/09		04/13/09
50-02	5002-MW-05	71-55-6	200	1,1,1-Trichloroethane	BQL	ug/L	U	EPA 8260	0.48	1	1	04/07/09		04/13/09
50-02	5002-MW-05	79-34-5	191	1,1,2,2-Tetrachloroethane	BQL	ug/L	U	EPA 8260	0.40	3	1	04/07/09		04/13/09
50-02	5002-MW-05	79-00-5	202	1,1,2-Trichloroethane	BQL	ug/L	U	EPA 8260	0.29	1	1	04/07/09		04/13/09
50-02	5002-MW-05	75-34-3	75	1,1-Dichloroethane	0.32	ug/L	J	EPA 8260	0.32	5	1	04/07/09		04/13/09
50-02	5002-MW-05	75-35-4	77	1,1-Dichloroethene	BQL	ug/L	U	EPA 8260	0.56	5	1	04/07/09		04/13/09
50-02	5002-MW-05	96-18-4	206	1,2,3-Trichloropropane	BQL	ug/L	U	EPA 8260	0.41	1	1	04/07/09		04/13/09
50-02	5002-MW-05	96-12-8	67	1,2-Dibromo-3-chloropropane	BQL	ug/L	U	EPA 8260	2.5	13	1	04/07/09		04/13/09
50-02	5002-MW-05	106-93-4	68	1,2-Dibromoethane (EDB)	BQL	ug/L	U	EPA 8260	0.27	1	1	04/07/09		04/13/09
50-02	5002-MW-05	95-50-1	69	1,2-Dichlorobenzene	0.43	ug/L	J	EPA 8260	0.30	5	1	04/07/09		04/13/09
50-02	5002-MW-05	107-06-2	76	1,2-Dichloroethane	BQL	ug/L	U	EPA 8260	0.12	1	1	04/07/09		04/13/09
50-02	5002-MW-05	78-87-5	82	1,2-Dichloropropane	BQL	ug/L	U	EPA 8260	0.27	1	1	04/07/09		04/13/09
50-02	5002-MW-05	106-46-7	71	1,4-Dichlorobenzene	**15.9**	ug/L		EPA 8260	0.33	1	1	04/07/09		04/13/09
50-02	5002-MW-05	78-93-3	141	2-Butanone (MEK)	BQL	ug/L	U	EPA 8260	0.96	100	1	04/07/09		04/13/09
50-02	5002-MW-05	591-78-6	124	2-Hexanone	BQL	ug/L	U	EPA 8260	0.46	50	1	04/07/09		04/13/09
50-02	5002-MW-05	108-10-1	147	4-Methyl-2-pentanone (MIBK)	BQL	ug/L	U	EPA 8260	0.33	100	1	04/07/09		04/13/09
50-02	5002-MW-05	67-64-1	3	Acetone	BQL	ug/L	U	EPA 8260	2.2	100	1	04/07/09		04/13/09
50-02	5002-MW-05	107-13-1	8	Acrylonitrile	BQL	ug/L	U	EPA 8260	1.9	200	1	04/07/09		04/13/09
50-02	5002-MW-05	71-43-2	16	Benzene	**1.0**	ug/L		EPA 8260	0.25	1	1	04/07/09		04/13/09
50-02	5002-MW-05	74-97-5	28	Bromochloromethane	BQL	ug/L	U	EPA 8260	0.17	3	1	04/07/09		04/13/09
50-02	5002-MW-05	75-27-4	29	Bromodichloromethane	BQL	ug/L	U	EPA 8260	0.18	1	1	04/07/09		04/13/09
50-02	5002-MW-05	75-25-2	30	Bromoform	BQL	ug/L	U	EPA 8260	0.26	3	1	04/07/09		04/13/09
50-02	5002-MW-05	74-83-9	136	Bromomethane	BQL	ug/L	U	EPA 8260	0.29	10	1	04/07/09		04/13/09
50-02	5002-MW-05	75-15-0	35	Carbon disulfide	BQL	ug/L	U	EPA 8260	1.2	100	1	04/07/09		04/13/09
50-02	5002-MW-05	56-23-5	36	Carbon tetrachloride	BQL	ug/L	U	EPA 8260	0.25	1	1	04/07/09		04/13/09
50-02	5002-MW-05	108-90-7	39	Chlorobenzene	8.1	ug/L		EPA 8260	0.23	3	1	04/07/09		04/13/09
50-02	5002-MW-05	75-00-3	41	Chloroethane	BQL	ug/L	U	EPA 8260	0.54	10	1	04/07/09		04/13/09
50-02	5002-MW-05	67-66-3	44	Chloroform	BQL	ug/L	U	EPA 8260	0.14	5	1	04/07/09		04/13/09
50-02	5002-MW-05	74-87-3	137	Chloromethane	BQL	ug/L	U	EPA 8260	0.11	1	1	04/07/09		04/13/09
50-02	5002-MW-05	156-59-2	78	cis-1,2-Dichloroethene	21.6	ug/L		EPA 8260	0.19	5	1	04/07/09		04/13/09
50-02	5002-MW-05	10061-01-5	86	cis-1,3-Dichloropropene	BQL	ug/L	U	EPA 8260	0.13	1	1	04/07/09		04/13/09
50-02	5002-MW-05	124-48-1	66	Dibromochloromethane	BQL	ug/L	U	EPA 8260	0.21	3	1	04/07/09		04/13/09
50-02	5002-MW-05	74-95-3	139	Dibromomethane	BQL	ug/L	U	EPA 8260	0.21	10	1	04/07/09		04/13/09
50-02	5002-MW-05	100-41-4	110	Ethylbenzene	BQL	ug/L	U	EPA 8260	0.30	1	1	04/07/09		04/13/09
50-02	5002-MW-05	74-88-4	142	Iodomethane	BQL	ug/L	U	EPA 8260	0.32	10	1	04/07/09		04/13/09
50-02	5002-MW-05	1330-20-7	359	m&p-Xylene	BQL	ug/L	U	EPA 8260	0.66	NE	1	04/07/09		04/13/09
50-02	5002-MW-05	75-09-2	140	Methylene Chloride	BQL	ug/L	U	EPA 8260	0.97	1	1	04/07/09		04/13/09
50-02	5002-MW-05	95-47-6	408	o-Xylene	BQL	ug/L	U	EPA 8260	0.23	NE	1	04/07/09		04/13/09
50-02	5002-MW-05	100-42-5	186	Styrene	BQL	ug/L	U	EPA 8260	0.26	1	1	04/07/09		04/13/09
50-02	5002-MW-05	127-18-4	192	Tetrachloroethene	BQL	ug/L	U	EPA 8260	0.46	1	1	04/07/09		04/13/09
50-02	5002-MW-05	108-88-3	196	Toluene	BQL	ug/L	U	EPA 8260	0.26	1	1	04/07/09		04/13/09

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FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE
50-02	5002-MW-05	156-60-5	79	trans-1,2-Dichloroethene	BQL	ug/L	U	EPA 8260	0.49	5	1	04/07/09		04/13/09
50-02	5002-MW-05	10061-02-6	87	trans-1,3-Dichloropropene	BQL	ug/L	U	EPA 8260	0.26	1	1	04/07/09		04/13/09
50-02	5002-MW-05	110-57-6	73	trans-1,4-Dichloro-2-butene	BQL	ug/L	U	EPA 8260	1.0	100	1	04/07/09		04/13/09
50-02	5002-MW-05	79-01-6	201	Trichloroethene	BQL	ug/L	U	EPA 8260	0.47	1	1	04/07/09		04/13/09
50-02	5002-MW-05	75-69-4	203	Trichlorofluoromethane	BQL	ug/L	U	EPA 8260	0.20	1	1	04/07/09		04/13/09
50-02	5002-MW-05	108-05-4	210	Vinyl acetate	BQL	ug/L	U	EPA 8260	0.35	50	1	04/07/09		04/13/09
50-02	5002-MW-05	75-01-4	211	Vinyl chloride	**0.99**	ug/L	J	EPA 8260	0.62	1	1	04/07/09		04/13/09
50-02	5002-MW-05	1330-20-7	346	Xylene (Total)	BQL	ug/L	U	EPA 8260	0.66	5	1	04/07/09		04/13/09
50-02	5002-MW-05	NA	356	Dissolved Oxygen	2.46	mg/l				NE		04/07/09		
50-02	5002-MW-05	NA	336	Oxygen Reduction Potential	26.5	mV				NE		04/07/09		
50-02	5002-MW-05	NA	320	pH	6.09	standard				NE		04/07/09		
50-02	5002-MW-05	NA	323	Specific Conductivity	0.745	mS				NE		04/07/09		
50-02	5002-MW-05	NA	325	Temperature	14.02	°C				NE		04/07/09		
50-02	5002-MW-05	NA	330	Turbidity	3.3	NTU				NE		04/07/09		
50-02	5002-MW-05	NA	328	Top of Casing (ft mean sea level)	2028.97	ft				NE		04/07/09		
50-02	5002-MW-05	NA	318	Depth to Water	52.08	ft				NE		04/07/09		
50-02	5002-MW-05	NA	411	Total Well Depth	60.12	ft				NE		04/07/09		
50-02	5002-MW-06	7440-36-0	13	Antimony	BQL	ug/L	U	EPA 6010	2.6	6	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-06	7440-38-2	14	Arsenic	BQL	ug/L	U	EPA 6010	2.7	10	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-06	7440-39-3	15	Barium	48.2	ug/L	*J*	EPA 6010	0.20	100	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-06	7440-41-7	23	Beryllium	BQL	ug/L	U	EPA 6010	0.10	1	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-06	7440-43-9	34	Cadmium	BQL	ug/L	U	EPA 6010	0.50	1	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-06	7440-47-3	51	Chromium	BQL	ug/L	U	EPA 6010	0.40	10	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-06	7440-48-4	53	Cobalt	15.9	ug/L		EPA 6010	0.60	10	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-06	7440-50-8	54	Copper	0.43	ug/L	J	EPA 6010	0.30	10	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-06	7439-92-1	131	Lead	BQL	ug/L	U	EPA 6010	4.0	10	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-06	7439-97-6	132	Mercury	BQL	ug/L	U	EPA 7470	0.070	0.2	1	04/07/09	04/10/09	04/10/09
50-02	5002-MW-06	7440-02-0	152	Nickel	8.5	ug/L	*J*	EPA 6010	1.7	50	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-06	7782-49-2	183	Selenium	BQL	ug/L	U	EPA 6010	3.8	10	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-06	7440-22-4	184	Silver	BQL	ug/L	U	EPA 6010	0.10	10	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-06	7440-28-0	194	Thallium	BQL	ug/L	U	EPA 6020	0.25	5.5	1	04/07/09	04/15/09	04/20/09
50-02	5002-MW-06	7440-62-2	209	Vanadium	BQL	ug/L	U	EPA 6010	0.20	25	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-06	7440-66-6	213	Zinc	81.9	ug/L		EPA 6010	0.40	10	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-06	630-20-6	190	1,1,1,2-Tetrachloroethane	BQL	ug/L	U	EPA 8260	0.33	5	1	04/07/09		04/13/09
50-02	5002-MW-06	71-55-6	200	1,1,1-Trichloroethane	BQL	ug/L	U	EPA 8260	0.48	1	1	04/07/09		04/13/09
50-02	5002-MW-06	79-34-5	191	1,1,2,2-Tetrachloroethane	BQL	ug/L	U	EPA 8260	0.40	3	1	04/07/09		04/13/09
50-02	5002-MW-06	79-00-5	202	1,1,2-Trichloroethane	BQL	ug/L	U	EPA 8260	0.29	1	1	04/07/09		04/13/09
50-02	5002-MW-06	75-34-3	75	1,1-Dichloroethane	13.0	ug/L		EPA 8260	0.32	5	1	04/07/09		04/13/09
50-02	5002-MW-06	75-35-4	77	1,1-Dichloroethene	BQL	ug/L	U	EPA 8260	0.56	5	1	04/07/09		04/13/09
50-02	5002-MW-06	96-18-4	206	1,2,3-Trichloropropane	BQL	ug/L	U	EPA 8260	0.41	1	1	04/07/09		04/13/09
50-02	5002-MW-06	96-12-8	67	1,2-Dibromo-3-chloropropane	BQL	ug/L	U	EPA 8260	2.5	13	1	04/07/09		04/13/09
50-02	5002-MW-06	106-93-4	68	1,2-Dibromoethane (EDB)	BQL	ug/L	U	EPA 8260	0.27	1	1	04/07/09		04/13/09
50-02	5002-MW-06	95-50-1	69	1,2-Dichlorobenzene	BQL	ug/L	U	EPA 8260	0.30	5	1	04/07/09		04/13/09
50-02	5002-MW-06	107-06-2	76	1,2-Dichloroethane	BQL	ug/L	U	EPA 8260	0.12	1	1	04/07/09		04/13/09
50-02	5002-MW-06	78-87-5	82	1,2-Dichloropropane	BQL	ug/L	U	EPA 8260	0.27	1	1	04/07/09		04/13/09
50-02	5002-MW-06	106-46-7	71	1,4-Dichlorobenzene	**3.2**	ug/L		EPA 8260	0.33	1	1	04/07/09		04/13/09
50-02	5002-MW-06	78-93-3	141	2-Butanone (MEK)	BQL	ug/L	U	EPA 8260	0.96	100	1	04/07/09		04/13/09

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50-02	5002-MW-06	591-78-6	124	2-Hexanone	BQL	ug/L	U	EPA 8260	0.46	50	1	04/07/09		04/13/09
50-02	5002-MW-06	108-10-1	147	4-Methyl-2-pentanone (MIBK)	BQL	ug/L	U	EPA 8260	0.33	100	1	04/07/09		04/13/09
50-02	5002-MW-06	67-64-1	3	Acetone	BQL	ug/L	U	EPA 8260	2.2	100	1	04/07/09		04/13/09
50-02	5002-MW-06	107-13-1	8	Acrylonitrile	BQL	ug/L	U	EPA 8260	1.9	200	1	04/07/09		04/13/09
50-02	5002-MW-06	71-43-2	16	Benzene	**1.4**	ug/L		EPA 8260	0.25	1	1	04/07/09		04/13/09
50-02	5002-MW-06	74-97-5	28	Bromochloromethane	BQL	ug/L	U	EPA 8260	0.17	3	1	04/07/09		04/13/09
50-02	5002-MW-06	75-27-4	29	Bromodichloromethane	BQL	ug/L	U	EPA 8260	0.18	1	1	04/07/09		04/13/09
50-02	5002-MW-06	75-25-2	30	Bromoform	BQL	ug/L	U	EPA 8260	0.26	3	1	04/07/09		04/13/09
50-02	5002-MW-06	74-83-9	136	Bromomethane	BQL	ug/L	U	EPA 8260	0.29	10	1	04/07/09		04/13/09
50-02	5002-MW-06	75-15-0	35	Carbon disulfide	BQL	ug/L	U	EPA 8260	1.2	100	1	04/07/09		04/13/09
50-02	5002-MW-06	56-23-5	36	Carbon tetrachloride	BQL	ug/L	U	EPA 8260	0.25	1	1	04/07/09		04/13/09
50-02	5002-MW-06	108-90-7	39	Chlorobenzene	1.3	ug/L	*J*	EPA 8260	0.23	3	1	04/07/09		04/13/09
50-02	5002-MW-06	75-00-3	41	Chloroethane	BQL	ug/L	U	EPA 8260	0.54	10	1	04/07/09		04/13/09
50-02	5002-MW-06	67-66-3	44	Chloroform	BQL	ug/L	U	EPA 8260	0.14	5	1	04/07/09		04/13/09
50-02	5002-MW-06	74-87-3	137	Chloromethane	BQL	ug/L	U	EPA 8260	0.11	1	1	04/07/09		04/13/09
50-02	5002-MW-06	156-59-2	78	cis-1,2-Dichloroethene	7.1	ug/L		EPA 8260	0.19	5	1	04/07/09		04/13/09
50-02	5002-MW-06	10061-01-5	86	cis-1,3-Dichloropropene	BQL	ug/L	U	EPA 8260	0.13	1	1	04/07/09		04/13/09
50-02	5002-MW-06	124-48-1	66	Dibromochloromethane	BQL	ug/L	U	EPA 8260	0.21	3	1	04/07/09		04/13/09
50-02	5002-MW-06	74-95-3	139	Dibromomethane	BQL	ug/L	U	EPA 8260	0.21	10	1	04/07/09		04/13/09
50-02	5002-MW-06	100-41-4	110	Ethylbenzene	BQL	ug/L	U	EPA 8260	0.30	1	1	04/07/09		04/13/09
50-02	5002-MW-06	74-88-4	142	Iodomethane	BQL	ug/L	U	EPA 8260	0.32	10	1	04/07/09		04/13/09
50-02	5002-MW-06	1330-20-7	359	m&p-Xylene	BQL	ug/L	U	EPA 8260	0.66	NE	1	04/07/09		04/13/09
50-02	5002-MW-06	75-09-2	140	Methylene Chloride	BQL	ug/L	U	EPA 8260	0.97	1	1	04/07/09		04/13/09
50-02	5002-MW-06	95-47-6	408	o-Xylene	0.30	ug/L	J	EPA 8260	0.23	NE	1	04/07/09		04/13/09
50-02	5002-MW-06	100-42-5	186	Styrene	BQL	ug/L	U	EPA 8260	0.26	1	1	04/07/09		04/13/09
50-02	5002-MW-06	127-18-4	192	Tetrachloroethene	0.81	ug/L	J	EPA 8260	0.46	1	1	04/07/09		04/13/09
50-02	5002-MW-06	108-88-3	196	Toluene	BQL	ug/L	U	EPA 8260	0.26	1	1	04/07/09		04/13/09
50-02	5002-MW-06	156-60-5	79	trans-1,2-Dichloroethene	BQL	ug/L	U	EPA 8260	0.49	5	1	04/07/09		04/13/09
50-02	5002-MW-06	10061-02-6	87	trans-1,3-Dichloropropene	BQL	ug/L	U	EPA 8260	0.26	1	1	04/07/09		04/13/09
50-02	5002-MW-06	110-57-6	73	trans-1,4-Dichloro-2-butene	BQL	ug/L	U	EPA 8260	1.0	100	1	04/07/09		04/13/09
50-02	5002-MW-06	79-01-6	201	Trichloroethene	1.4	ug/L		EPA 8260	0.47	1	1	04/07/09		04/13/09
50-02	5002-MW-06	75-69-4	203	Trichlorofluoromethane	BQL	ug/L	U	EPA 8260	0.20	1	1	04/07/09		04/13/09
50-02	5002-MW-06	108-05-4	210	Vinyl acetate	BQL	ug/L	U	EPA 8260	0.35	50	1	04/07/09		04/13/09
50-02	5002-MW-06	75-01-4	211	Vinyl chloride	BQL	ug/L	U	EPA 8260	0.62	1	1	04/07/09		04/13/09
50-02	5002-MW-06	1330-20-7	346	Xylene (Total)	BQL	ug/L	U	EPA 8260	0.66	5	1	04/07/09		04/13/09
50-02	5002-MW-06	NA	356	Dissolved Oxygen	0.86	mg/l				NE		04/07/09		
50-02	5002-MW-06	NA	336	Oxygen Reduction Potential	72.9	mV				NE		04/07/09		
50-02	5002-MW-06	NA	320	pH	5.60	standard				NE		04/07/09		
50-02	5002-MW-06	NA	323	Specific Conductivity	0.182	mS				NE		04/07/09		
50-02	5002-MW-06	NA	325	Temperature	14.10	°C				NE		04/07/09		
50-02	5002-MW-06	NA	330	Turbidity	5.96	NTU				NE		04/07/09		
50-02	5002-MW-06	NA	328	Top of Casing (ft mean sea level)	2139.57	ft				NE		04/07/09		
50-02	5002-MW-06	NA	318	Depth to Water	93.35	ft				NE		04/07/09		
50-02	5002-MW-06	NA	411	Total Well Depth	96.08	ft				NE				
50-02	5002-SW-01	7440-36-0	13	Antimony	BQL	ug/L	U	EPA 6010	2.6	6	1	04/08/09	04/10/09	04/14/09
50-02	5002-SW-01	7440-38-2	14	Arsenic	BQL	ug/L	U	EPA 6010	2.7	10	1	04/08/09	04/10/09	04/14/09
50-02	5002-SW-01	7440-39-3	15	Barium	11.4	ug/L	*J*	EPA 6010	0.20	100	1	04/08/09	04/10/09	04/14/09

Table 1
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FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE
50-02	5002-SW-01	7440-41-7	23	Beryllium	BQL	ug/L	U	EPA 6010	0.10	1	1	04/08/09	04/10/09	04/14/09
50-02	5002-SW-01	7440-43-9	34	Cadmium	BQL	ug/L	U	EPA 6010	0.50	1	1	04/08/09	04/10/09	04/14/09
50-02	5002-SW-01	7440-47-3	51	Chromium	BQL	ug/L	U	EPA 6010	0.40	10	1	04/08/09	04/10/09	04/14/09
50-02	5002-SW-01	7440-48-4	53	Cobalt	4.3	ug/L	J	EPA 6010	0.60	10	1	04/08/09	04/10/09	04/14/09
50-02	5002-SW-01	7440-50-8	54	Copper	0.99	ug/L	J	EPA 6010	0.30	10	1	04/08/09	04/10/09	04/14/09
50-02	5002-SW-01	7439-92-1	131	Lead	BQL	ug/L	U	EPA 6010	4.0	10	1	04/08/09	04/10/09	04/14/09
50-02	5002-SW-01	7439-97-6	132	Mercury	BQL	ug/L	U	EPA 7470	0.070	0.2	1	04/08/09	04/10/09	04/10/09
50-02	5002-SW-01	7440-02-0	152	Nickel	BQL	ug/L	U	EPA 6010	1.7	50	1	04/08/09	04/10/09	04/14/09
50-02	5002-SW-01	7782-49-2	183	Selenium	BQL	ug/L	U	EPA 6010	3.8	10	1	04/08/09	04/10/09	04/14/09
50-02	5002-SW-01	7440-22-4	184	Silver	BQL	ug/L	U	EPA 6010	0.10	10	1	04/08/09	04/10/09	04/14/09
50-02	5002-SW-01	7440-28-0	194	Thallium	BQL	ug/L	U	EPA 6020	0.25	5.5	1	04/08/09	04/16/09	04/20/09
50-02	5002-SW-01	7440-62-2	209	Vanadium	BQL	ug/L	U	EPA 6010	0.20	25	1	04/08/09	04/10/09	04/14/09
50-02	5002-SW-01	7440-66-6	213	Zinc	0.58	ug/L	J	EPA 6010	0.40	10	1	04/08/09	04/10/09	04/14/09
50-02	5002-SW-01	630-20-6	190	1,1,1,2-Tetrachloroethane	BQL	ug/L	U	EPA 8260	0.33	5	1	04/08/09		04/16/09
50-02	5002-SW-01	71-55-6	200	1,1,1-Trichloroethane	BQL	ug/L	U	EPA 8260	0.48	1	1	04/08/09		04/16/09
50-02	5002-SW-01	79-34-5	191	1,1,2,2-Tetrachloroethane	BQL	ug/L	U	EPA 8260	0.40	3	1	04/08/09		04/16/09
50-02	5002-SW-01	79-00-5	202	1,1,2-Trichloroethane	BQL	ug/L	U	EPA 8260	0.29	1	1	04/08/09		04/16/09
50-02	5002-SW-01	75-34-3	75	1,1-Dichloroethane	BQL	ug/L	U	EPA 8260	0.32	5	1	04/08/09		04/16/09
50-02	5002-SW-01	75-35-4	77	1,1-Dichloroethene	BQL	ug/L	U	EPA 8260	0.56	5	1	04/08/09		04/16/09
50-02	5002-SW-01	96-18-4	206	1,2,3-Trichloropropane	BQL	ug/L	U	EPA 8260	0.41	1	1	04/08/09		04/16/09
50-02	5002-SW-01	96-12-8	67	1,2-Dibromo-3-chloropropane	BQL	ug/L	U	EPA 8260	2.5	13	1	04/08/09		04/16/09
50-02	5002-SW-01	106-93-4	68	1,2-Dibromoethane (EDB)	BQL	ug/L	U	EPA 8260	0.27	1	1	04/08/09		04/16/09
50-02	5002-SW-01	95-50-1	69	1,2-Dichlorobenzene	BQL	ug/L	U	EPA 8260	0.30	5	1	04/08/09		04/16/09
50-02	5002-SW-01	107-06-2	76	1,2-Dichloroethane	BQL	ug/L	U	EPA 8260	0.12	1	1	04/08/09		04/16/09
50-02	5002-SW-01	78-87-5	82	1,2-Dichloropropane	BQL	ug/L	U	EPA 8260	0.27	1	1	04/08/09		04/16/09
50-02	5002-SW-01	106-46-7	71	1,4-Dichlorobenzene	BQL	ug/L	U	EPA 8260	0.33	1	1	04/08/09		04/16/09
50-02	5002-SW-01	78-93-3	141	2-Butanone (MEK)	BQL	ug/L	U	EPA 8260	0.96	100	1	04/08/09		04/16/09
50-02	5002-SW-01	591-78-6	124	2-Hexanone	BQL	ug/L	U	EPA 8260	0.46	50	1	04/08/09		04/16/09
50-02	5002-SW-01	108-10-1	147	4-Methyl-2-pentanone (MIBK)	BQL	ug/L	U	EPA 8260	0.33	100	1	04/08/09		04/16/09
50-02	5002-SW-01	67-64-1	3	Acetone	BQL	ug/L	U	EPA 8260	2.2	100	1	04/08/09		04/16/09
50-02	5002-SW-01	107-13-1	8	Acrylonitrile	BQL	ug/L	U	EPA 8260	1.9	200	1	04/08/09		04/16/09
50-02	5002-SW-01	71-43-2	16	Benzene	BQL	ug/L	U	EPA 8260	0.25	1	1	04/08/09		04/16/09
50-02	5002-SW-01	74-97-5	28	Bromochloromethane	BQL	ug/L	U	EPA 8260	0.17	3	1	04/08/09		04/16/09
50-02	5002-SW-01	75-27-4	29	Bromodichloromethane	BQL	ug/L	U	EPA 8260	0.18	1	1	04/08/09		04/16/09
50-02	5002-SW-01	75-25-2	30	Bromoform	BQL	ug/L	U	EPA 8260	0.26	3	1	04/08/09		04/16/09
50-02	5002-SW-01	74-83-9	136	Bromomethane	BQL	ug/L	U	EPA 8260	0.29	10	1	04/08/09		04/16/09
50-02	5002-SW-01	75-15-0	35	Carbon disulfide	BQL	ug/L	U	EPA 8260	1.2	100	1	04/08/09		04/16/09
50-02	5002-SW-01	56-23-5	36	Carbon tetrachloride	BQL	ug/L	U	EPA 8260	0.25	1	1	04/08/09		04/16/09
50-02	5002-SW-01	108-90-7	39	Chlorobenzene	BQL	ug/L	U	EPA 8260	0.23	3	1	04/08/09		04/16/09
50-02	5002-SW-01	75-00-3	41	Chloroethane	BQL	ug/L	U	EPA 8260	0.54	10	1	04/08/09		04/16/09
50-02	5002-SW-01	67-66-3	44	Chloroform	BQL	ug/L	U	EPA 8260	0.14	5	1	04/08/09		04/16/09
50-02	5002-SW-01	74-87-3	137	Chloromethane	BQL	ug/L	U	EPA 8260	0.11	1	1	04/08/09		04/16/09
50-02	5002-SW-01	156-59-2	78	cis-1,2-Dichloroethene	BQL	ug/L	U	EPA 8260	0.19	5	1	04/08/09		04/16/09
50-02	5002-SW-01	10061-01-5	86	cis-1,3-Dichloropropene	BQL	ug/L	U	EPA 8260	0.13	1	1	04/08/09		04/16/09
50-02	5002-SW-01	124-48-1	66	Dibromochloromethane	BQL	ug/L	U	EPA 8260	0.21	3	1	04/08/09		04/16/09
50-02	5002-SW-01	74-95-3	139	Dibromomethane	BQL	ug/L	U	EPA 8260	0.21	10	1	04/08/09		04/16/09
50-02	5002-SW-01	100-41-4	110	Ethylbenzene	BQL	ug/L	U	EPA 8260	0.30	1	1	04/08/09		04/16/09
50-02	5002-SW-01	74-88-4	142	Iodomethane	BQL	ug/L	U	EPA 8260	0.32	10	1	04/08/09		04/16/09

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FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE
50-02	5002-SW-01	1330-20-7	359	m&p-Xylene	BQL	ug/L	U	EPA 8260	0.66	NE	1	04/08/09		04/16/09
50-02	5002-SW-01	75-09-2	140	Methylene Chloride	BQL	ug/L	U	EPA 8260	0.97	1	1	04/08/09		04/16/09
50-02	5002-SW-01	95-47-6	408	o-Xylene	BQL	ug/L	U	EPA 8260	0.23	NE	1	04/08/09		04/16/09
50-02	5002-SW-01	100-42-5	186	Styrene	BQL	ug/L	U	EPA 8260	0.26	1	1	04/08/09		04/16/09
50-02	5002-SW-01	127-18-4	192	Tetrachloroethene	BQL	ug/L	U	EPA 8260	0.46	1	1	04/08/09		04/16/09
50-02	5002-SW-01	108-88-3	196	Toluene	BQL	ug/L	U	EPA 8260	0.26	1	1	04/08/09		04/16/09
50-02	5002-SW-01	156-60-5	79	trans-1,2-Dichloroethene	BQL	ug/L	U	EPA 8260	0.49	5	1	04/08/09		04/16/09
50-02	5002-SW-01	10061-02-6	87	trans-1,3-Dichloropropene	BQL	ug/L	U	EPA 8260	0.26	1	1	04/08/09		04/16/09
50-02	5002-SW-01	110-57-6	73	trans-1,4-Dichloro-2-butene	BQL	ug/L	U	EPA 8260	1.0	100	1	04/08/09		04/16/09
50-02	5002-SW-01	79-01-6	201	Trichloroethene	BQL	ug/L	U	EPA 8260	0.47	1	1	04/08/09		04/16/09
50-02	5002-SW-01	75-69-4	203	Trichlorofluoromethane	BQL	ug/L	U	EPA 8260	0.20	1	1	04/08/09		04/16/09
50-02	5002-SW-01	108-05-4	210	Vinyl acetate	BQL	ug/L	U	EPA 8260	0.35	50	1	04/08/09		04/16/09
50-02	5002-SW-01	75-01-4	211	Vinyl chloride	BQL	ug/L	U	EPA 8260	0.62	1	1	04/08/09		04/16/09
50-02	5002-SW-01	1330-20-7	346	Xylene (Total)	BQL	ug/L	U	EPA 8260	0.66	5	1	04/08/09		04/16/09
50-02	5002-SW-01	NA	356	Dissolved Oxygen	12.53	mg/l				NE		04/08/09		
50-02	5002-SW-01	NA	336	Oxygen Reduction Potential	350.1	mV				NE		04/08/09		
50-02	5002-SW-01	NA	320	pH	6.14	standard				NE		04/08/09		
50-02	5002-SW-01	NA	323	Specific Conductivity	0.031	mS				NE		04/08/09		
50-02	5002-SW-01	NA	325	Temperature	8.05	°C				NE		04/08/09		
50-02	5002-SW-01	NA	330	Turbidity	NMT	NTU				NE		04/08/09		
50-02	5002-SW-01	NA	328	Top of Casing (ft mean sea level)	NA	ft				NE				
50-02	5002-SW-01	NA	318	Depth to Water	NA	ft				NE				
50-02	5002-SW-01	NA	411	Total Well Depth	NA	ft				NE				
50-02	5002-SW-02	7440-36-0	13	Antimony	BQL	ug/L	U	EPA 6010	2.6	6	1	04/07/09	04/09/09	04/14/09
50-02	5002-SW-02	7440-38-2	14	Arsenic	BQL	ug/L	U	EPA 6010	2.7	10	1	04/07/09	04/09/09	04/14/09
50-02	5002-SW-02	7440-39-3	15	Barium	11.2	ug/L	J	EPA 6010	0.20	100	1	04/07/09	04/09/09	04/14/09
50-02	5002-SW-02	7440-41-7	23	Beryllium	BQL	ug/L	U	EPA 6010	0.10	1	1	04/07/09	04/09/09	04/14/09
50-02	5002-SW-02	7440-43-9	34	Cadmium	BQL	ug/L	U	EPA 6010	0.50	1	1	04/07/09	04/09/09	04/14/09
50-02	5002-SW-02	7440-47-3	51	Chromium	BQL	ug/L	U	EPA 6010	0.40	10	1	04/07/09	04/09/09	04/14/09
50-02	5002-SW-02	7440-48-4	53	Cobalt	1.6	ug/L	J	EPA 6010	0.60	10	1	04/07/09	04/09/09	04/14/09
50-02	5002-SW-02	7440-50-8	54	Copper	0.92	ug/L	J	EPA 6010	0.30	10	1	04/07/09	04/09/09	04/14/09
50-02	5002-SW-02	7439-92-1	131	Lead	BQL	ug/L	U	EPA 6010	4.0	10	1	04/07/09	04/09/09	04/14/09
50-02	5002-SW-02	7439-97-6	132	Mercury	BQL	ug/L	U	EPA 7470	0.070	0.2	1	04/07/09	04/10/09	04/10/09
50-02	5002-SW-02	7440-02-0	152	Nickel	BQL	ug/L	U	EPA 6010	1.7	50	1	04/07/09	04/09/09	04/14/09
50-02	5002-SW-02	7782-49-2	183	Selenium	BQL	ug/L	U	EPA 6010	3.8	10	1	04/07/09	04/09/09	04/14/09
50-02	5002-SW-02	7440-22-4	184	Silver	BQL	ug/L	U	EPA 6010	0.10	10	1	04/07/09	04/09/09	04/14/09
50-02	5002-SW-02	7440-28-0	194	Thallium	BQL	ug/L	U	EPA 6020	0.25	5.5	1	04/07/09	04/15/09	04/20/09
50-02	5002-SW-02	7440-62-2	209	Vanadium	BQL	ug/L	U	EPA 6010	0.20	25	1	04/07/09	04/09/09	04/14/09
50-02	5002-SW-02	7440-66-6	213	Zinc	4.3	ug/L	J	EPA 6010	0.40	10	1	04/07/09	04/09/09	04/14/09
50-02	5002-SW-02	630-20-6	190	1,1,1,2-Tetrachloroethane	BQL	ug/L	U	EPA 8260	0.33	5	1	04/07/09		04/13/09
50-02	5002-SW-02	71-55-6	200	1,1,1-Trichloroethane	BQL	ug/L	U	EPA 8260	0.48	1	1	04/07/09		04/13/09
50-02	5002-SW-02	79-34-5	191	1,1,2,2-Tetrachloroethane	BQL	ug/L	U	EPA 8260	0.40	3	1	04/07/09		04/13/09
50-02	5002-SW-02	79-00-5	202	1,1,2-Trichloroethane	BQL	ug/L	U	EPA 8260	0.29	1	1	04/07/09		04/13/09
50-02	5002-SW-02	75-34-3	75	1,1-Dichloroethane	BQL	ug/L	U	EPA 8260	0.32	5	1	04/07/09		04/13/09
50-02	5002-SW-02	75-35-4	77	1,1-Dichloroethene	BQL	ug/L	U	EPA 8260	0.56	5	1	04/07/09		04/13/09
50-02	5002-SW-02	96-18-4	206	1,2,3-Trichloropropane	BQL	ug/L	U	EPA 8260	0.41	1	1	04/07/09		04/13/09
50-02	5002-SW-02	96-12-8	67	1,2-Dibromo-3-chloropropane	BQL	ug/L	U	EPA 8260	2.5	13	1	04/07/09		04/13/09

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50-02	5002-SW-02	106-93-4	68	1,2-Dibromoethane (EDB)	BQL	ug/L	U	EPA 8260	0.27	1	1	04/07/09		04/13/09
50-02	5002-SW-02	95-50-1	69	1,2-Dichlorobenzene	BQL	ug/L	U	EPA 8260	0.30	5	1	04/07/09		04/13/09
50-02	5002-SW-02	107-06-2	76	1,2-Dichloroethane	BQL	ug/L	U	EPA 8260	0.12	1	1	04/07/09		04/13/09
50-02	5002-SW-02	78-87-5	82	1,2-Dichloropropane	BQL	ug/L	U	EPA 8260	0.27	1	1	04/07/09		04/13/09
50-02	5002-SW-02	106-46-7	71	1,4-Dichlorobenzene	BQL	ug/L	U	EPA 8260	0.33	1	1	04/07/09		04/13/09
50-02	5002-SW-02	78-93-3	141	2-Butanone (MEK)	BQL	ug/L	U	EPA 8260	0.96	100	1	04/07/09		04/13/09
50-02	5002-SW-02	591-78-6	124	2-Hexanone	BQL	ug/L	U	EPA 8260	0.46	50	1	04/07/09		04/13/09
50-02	5002-SW-02	108-10-1	147	4-Methyl-2-pentanone (MIBK)	BQL	ug/L	U	EPA 8260	0.33	100	1	04/07/09		04/13/09
50-02	5002-SW-02	67-64-1	3	Acetone	BQL	ug/L	U	EPA 8260	2.2	100	1	04/07/09		04/13/09
50-02	5002-SW-02	107-13-1	8	Acrylonitrile	BQL	ug/L	U	EPA 8260	1.9	200	1	04/07/09		04/13/09
50-02	5002-SW-02	71-43-2	16	Benzene	BQL	ug/L	U	EPA 8260	0.25	1	1	04/07/09		04/13/09
50-02	5002-SW-02	74-97-5	28	Bromochloromethane	BQL	ug/L	U	EPA 8260	0.17	3	1	04/07/09		04/13/09
50-02	5002-SW-02	75-27-4	29	Bromodichloromethane	BQL	ug/L	U	EPA 8260	0.18	1	1	04/07/09		04/13/09
50-02	5002-SW-02	75-25-2	30	Bromoform	BQL	ug/L	U	EPA 8260	0.26	3	1	04/07/09		04/13/09
50-02	5002-SW-02	74-83-9	136	Bromomethane	BQL	ug/L	U	EPA 8260	0.29	10	1	04/07/09		04/13/09
50-02	5002-SW-02	75-15-0	35	Carbon disulfide	BQL	ug/L	U	EPA 8260	1.2	100	1	04/07/09		04/13/09
50-02	5002-SW-02	56-23-5	36	Carbon tetrachloride	BQL	ug/L	U	EPA 8260	0.25	1	1	04/07/09		04/13/09
50-02	5002-SW-02	108-90-7	39	Chlorobenzene	BQL	ug/L	U	EPA 8260	0.23	3	1	04/07/09		04/13/09
50-02	5002-SW-02	75-00-3	41	Chloroethane	BQL	ug/L	U	EPA 8260	0.54	10	1	04/07/09		04/13/09
50-02	5002-SW-02	67-66-3	44	Chloroform	BQL	ug/L	U	EPA 8260	0.14	5	1	04/07/09		04/13/09
50-02	5002-SW-02	74-87-3	137	Chloromethane	BQL	ug/L	U	EPA 8260	0.11	1	1	04/07/09		04/13/09
50-02	5002-SW-02	156-59-2	78	cis-1,2-Dichloroethene	BQL	ug/L	U	EPA 8260	0.19	5	1	04/07/09		04/13/09
50-02	5002-SW-02	10061-01-5	86	cis-1,3-Dichloropropene	BQL	ug/L	U	EPA 8260	0.13	1	1	04/07/09		04/13/09
50-02	5002-SW-02	124-48-1	66	Dibromochloromethane	BQL	ug/L	U	EPA 8260	0.21	3	1	04/07/09		04/13/09
50-02	5002-SW-02	74-95-3	139	Dibromomethane	BQL	ug/L	U	EPA 8260	0.21	10	1	04/07/09		04/13/09
50-02	5002-SW-02	100-41-4	110	Ethylbenzene	BQL	ug/L	U	EPA 8260	0.30	1	1	04/07/09		04/13/09
50-02	5002-SW-02	74-88-4	142	Iodomethane	BQL	ug/L	U	EPA 8260	0.32	10	1	04/07/09		04/13/09
50-02	5002-SW-02	1330-20-7	359	m&p-Xylene	BQL	ug/L	U	EPA 8260	0.66	NE	1	04/07/09		04/13/09
50-02	5002-SW-02	75-09-2	140	Methylene Chloride	BQL	ug/L	U	EPA 8260	0.97	1	1	04/07/09		04/13/09
50-02	5002-SW-02	95-47-6	408	o-Xylene	BQL	ug/L	U	EPA 8260	0.23	NE	1	04/07/09		04/13/09
50-02	5002-SW-02	100-42-5	186	Styrene	BQL	ug/L	U	EPA 8260	0.26	1	1	04/07/09		04/13/09
50-02	5002-SW-02	127-18-4	192	Tetrachloroethene	BQL	ug/L	U	EPA 8260	0.46	1	1	04/07/09		04/13/09
50-02	5002-SW-02	108-88-3	196	Toluene	BQL	ug/L	U	EPA 8260	0.26	1	1	04/07/09		04/13/09
50-02	5002-SW-02	156-60-5	79	trans-1,2-Dichloroethene	BQL	ug/L	U	EPA 8260	0.49	5	1	04/07/09		04/13/09
50-02	5002-SW-02	10061-02-6	87	trans-1,3-Dichloropropene	BQL	ug/L	U	EPA 8260	0.26	1	1	04/07/09		04/13/09
50-02	5002-SW-02	110-57-6	73	trans-1,4-Dichloro-2-butene	BQL	ug/L	U	EPA 8260	1.0	100	1	04/07/09		04/13/09
50-02	5002-SW-02	79-01-6	201	Trichloroethene	BQL	ug/L	U	EPA 8260	0.47	1	1	04/07/09		04/13/09
50-02	5002-SW-02	75-69-4	203	Trichlorofluoromethane	BQL	ug/L	U	EPA 8260	0.20	1	1	04/07/09		04/13/09
50-02	5002-SW-02	108-05-4	210	Vinyl acetate	BQL	ug/L	U	EPA 8260	0.35	50	1	04/07/09		04/13/09
50-02	5002-SW-02	75-01-4	211	Vinyl chloride	BQL	ug/L	U	EPA 8260	0.62	1	1	04/07/09		04/13/09
50-02	5002-SW-02	1330-20-7	346	Xylene (Total)	BQL	ug/L	U	EPA 8260	0.66	5	1	04/07/09		04/13/09
50-02	5002-SW-02	NA	356	Dissolved Oxygen	12.48	mg/l				NE		04/07/09		
50-02	5002-SW-02	NA	336	Oxygen Reduction Potential	223.1	mV				NE		04/07/09		
50-02	5002-SW-02	NA	320	pH	6.84	standard				NE		04/07/09		
50-02	5002-SW-02	NA	323	Specific Conductivity	0.027	mS				NE		04/07/09		
50-02	5002-SW-02	NA	325	Temperature	7.90	°C				NE		04/07/09		
50-02	5002-SW-02	NA	330	Turbidity	5.39	NTU				NE		04/07/09		
50-02	5002-SW-02	NA	328	Top of Casing (ft mean sea level)	NA	ft				NE				

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FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE
50-02	5002-SW-02	NA	318	Depth to Water	NA	ft				NE				
50-02	5002-SW-02	NA	411	Total Well Depth	NA	ft				NE				
50-02	DW-01	71-55-6	200	1,1,1-Trichloroethane	BQL	ug/L	U	EPA 524.2	0.25	1	1	04/07/09	04/10/09	04/11/09
50-02	DW-01	79-00-5	202	1,1,2-Trichloroethane	BQL	ug/L	U	EPA 524.2	0.25	1	1	04/07/09	04/10/09	04/11/09
50-02	DW-01	75-35-4	77	1,1-Dichloroethene	BQL	ug/L	U	EPA 524.2	0.25	5	1	04/07/09	04/10/09	04/11/09
50-02	DW-01	120-82-1	199	1,2,4-Trichlorobenzene	BQL	ug/L	U	EPA 524.2	0.25	NE	1	04/07/09	04/10/09	04/11/09
50-02	DW-01	95-50-1	69	1,2-Dichlorobenzene	BQL	ug/L	U	EPA 524.2	0.25	5	1	04/07/09	04/10/09	04/11/09
50-02	DW-01	107-06-2	76	1,2-Dichloroethane	BQL	ug/L	U	EPA 524.2	0.25	1	1	04/07/09	04/10/09	04/11/09
50-02	DW-01	78-87-5	82	1,2-Dichloropropane	BQL	ug/L	U	EPA 524.2	0.25	1	1	04/07/09	04/10/09	04/11/09
50-02	DW-01	106-46-7	71	1,4-Dichlorobenzene	BQL	ug/L	U	EPA 524.2	0.25	1	1	04/07/09	04/10/09	04/11/09
50-02	DW-01	71-43-2	16	Benzene	BQL	ug/L	U	EPA 524.2	0.25	1	1	04/07/09	04/10/09	04/11/09
50-02	DW-01	56-23-5	36	Carbon tetrachloride	BQL	ug/L	U	EPA 524.2	0.25	1	1	04/07/09	04/10/09	04/11/09
50-02	DW-01	108-90-7	39	Chlorobenzene	BQL	ug/L	U	EPA 524.2	0.25	3	1	04/07/09	04/10/09	04/11/09
50-02	DW-01	156-59-2	78	cis-1,2-Dichloroethene	BQL	ug/L	U	EPA 524.2	0.25	5	1	04/07/09	04/10/09	04/11/09
50-02	DW-01	100-41-4	110	Ethylbenzene	BQL	ug/L	U	EPA 524.2	0.25	1	1	04/07/09	04/10/09	04/11/09
50-02	DW-01	75-09-2	140	Methylene chloride	BQL	ug/L	U	EPA 524.2	0.44	1	1	04/07/09	04/10/09	04/11/09
50-02	DW-01	100-42-5	186	Styrene	BQL	ug/L	U	EPA 524.2	0.25	1	1	04/07/09	04/10/09	04/11/09
50-02	DW-01	127-18-4	192	Tetrachloroethene	BQL	ug/L	U	EPA 524.2	0.25	1	1	04/07/09	04/10/09	04/11/09
50-02	DW-01	108-88-3	196	Toluene	BQL	ug/L	U	EPA 524.2	0.25	1	1	04/07/09	04/10/09	04/11/09
50-02	DW-01	156-60-5	79	trans-1,2-Dichloroethene	BQL	ug/L	U	EPA 524.2	0.25	5	1	04/07/09	04/10/09	04/11/09
50-02	DW-01	79-01-6	201	Trichloroethene	BQL	ug/L	U	EPA 524.2	0.25	1	1	04/07/09	04/10/09	04/11/09
50-02	DW-01	75-01-4	211	Vinyl Chloride	BQL	ug/L	U	EPA 524.2	0.25	1	1	04/07/09	04/10/09	04/11/09
50-02	DW-01	1330-20-7	346	Xylene (Total)	BQL	ug/L	U	EPA 524.2	0.50	5	1	04/07/09	04/10/09	04/11/09
50-02	DW-01	NA	356	Dissolved Oxygen	4.72	mg/l				NE		04/07/09		
50-02	DW-01	NA	336	Oxygen Reduction Potential	225.4	mV				NE		04/07/09		
50-02	DW-01	NA	320	pH	6.61	standard				NE		04/07/09		
50-02	DW-01	NA	323	Specific Conductivity	0.069	mS				NE		04/07/09		
50-02	DW-01	NA	325	Temperature	13.60	°C				NE		04/07/09		
50-02	DW-01	NA	330	Turbidity	0.49	NTU				NE		04/07/09		
50-02	DW-02	71-55-6	200	1,1,1-Trichloroethane	BQL	ug/L	U	EPA 524.2	0.25	1	1	04/08/09	04/10/09	04/11/09
50-02	DW-02	79-00-5	202	1,1,2-Trichloroethane	BQL	ug/L	U	EPA 524.2	0.25	1	1	04/08/09	04/10/09	04/11/09
50-02	DW-02	75-35-4	77	1,1-Dichloroethene	BQL	ug/L	U	EPA 524.2	0.25	5	1	04/08/09	04/10/09	04/11/09
50-02	DW-02	120-82-1	199	1,2,4-Trichlorobenzene	BQL	ug/L	U	EPA 524.2	0.25	NE	1	04/08/09	04/10/09	04/11/09
50-02	DW-02	95-50-1	69	1,2-Dichlorobenzene	BQL	ug/L	U	EPA 524.2	0.25	5	1	04/08/09	04/10/09	04/11/09
50-02	DW-02	107-06-2	76	1,2-Dichloroethane	BQL	ug/L	U	EPA 524.2	0.25	1	1	04/08/09	04/10/09	04/11/09
50-02	DW-02	78-87-5	82	1,2-Dichloropropane	BQL	ug/L	U	EPA 524.2	0.25	1	1	04/08/09	04/10/09	04/11/09
50-02	DW-02	106-46-7	71	1,4-Dichlorobenzene	BQL	ug/L	U	EPA 524.2	0.25	1	1	04/08/09	04/10/09	04/11/09
50-02	DW-02	71-43-2	16	Benzene	BQL	ug/L	U	EPA 524.2	0.25	1	1	04/08/09	04/10/09	04/11/09
50-02	DW-02	56-23-5	36	Carbon tetrachloride	BQL	ug/L	U	EPA 524.2	0.25	1	1	04/08/09	04/10/09	04/11/09
50-02	DW-02	108-90-7	39	Chlorobenzene	BQL	ug/L	U	EPA 524.2	0.25	3	1	04/08/09	04/10/09	04/11/09
50-02	DW-02	156-59-2	78	cis-1,2-Dichloroethene	BQL	ug/L	U	EPA 524.2	0.25	5	1	04/08/09	04/10/09	04/11/09
50-02	DW-02	100-41-4	110	Ethylbenzene	BQL	ug/L	U	EPA 524.2	0.25	1	1	04/08/09	04/10/09	04/11/09
50-02	DW-02	75-09-2	140	Methylene chloride	BQL	ug/L	U	EPA 524.2	0.44	1	1	04/08/09	04/10/09	04/11/09
50-02	DW-02	100-42-5	186	Styrene	BQL	ug/L	U	EPA 524.2	0.25	1	1	04/08/09	04/10/09	04/11/09
50-02	DW-02	127-18-4	192	Tetrachloroethene	BQL	ug/L	U	EPA 524.2	0.25	1	1	04/08/09	04/10/09	04/11/09
50-02	DW-02	108-88-3	196	Toluene	BQL	ug/L	U	EPA 524.2	0.25	1	1	04/08/09	04/10/09	04/11/09

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FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE
50-02	DW-02	156-60-5	79	trans-1,2-Dichloroethene	BQL	ug/L	U	EPA 524.2	0.25	5	1	04/08/09	04/10/09	04/11/09
50-02	DW-02	79-01-6	201	Trichloroethene	BQL	ug/L	U	EPA 524.2	0.25	1	1	04/08/09	04/10/09	04/11/09
50-02	DW-02	75-01-4	211	Vinyl Chloride	BQL	ug/L	U	EPA 524.2	0.25	1	1	04/08/09	04/10/09	04/11/09
50-02	DW-02	1330-20-7	346	Xylene (Total)	BQL	ug/L	U	EPA 524.2	0.50	5	1	04/08/09	04/10/09	04/11/09
50-02	DW-02	NA	356	Dissolved Oxygen	5.27	mg/l				NE		04/08/09		
50-02	DW-02	NA	336	Oxygen Reduction Potential	185.3	mV				NE		04/08/09		
50-02	DW-02	NA	320	pH	5.83	standard				NE		04/08/09		
50-02	DW-02	NA	323	Specific Conductivity	0.058	mS				NE		04/08/09		
50-02	DW-02	NA	325	Temperature	11.85	°C				NE		04/08/09		
50-02	DW-02	NA	330	Turbidity	24.01	NTU				NE		04/08/09		
50-02	Trip Blank	630-20-6	190	1,1,1,2-Tetrachloroethane	BQL	ug/L	U	EPA 8260	0.33	5	1	04/08/09		04/16/09
50-02	Trip Blank	71-55-6	200	1,1,1-Trichloroethane	BQL	ug/L	U	EPA 8260	0.48	1	1	04/08/09		04/16/09
50-02	Trip Blank	79-34-5	191	1,1,2,2-Tetrachloroethane	BQL	ug/L	U	EPA 8260	0.40	3	1	04/08/09		04/16/09
50-02	Trip Blank	79-00-5	202	1,1,2-Trichloroethane	BQL	ug/L	U	EPA 8260	0.29	1	1	04/08/09		04/16/09
50-02	Trip Blank	75-34-3	75	1,1-Dichloroethane	BQL	ug/L	U	EPA 8260	0.32	5	1	04/08/09		04/16/09
50-02	Trip Blank	75-35-4	77	1,1-Dichloroethene	BQL	ug/L	U	EPA 8260	0.56	5	1	04/08/09		04/16/09
50-02	Trip Blank	96-18-4	206	1,2,3-Trichloropropane	BQL	ug/L	U	EPA 8260	0.41	1	1	04/08/09		04/16/09
50-02	Trip Blank	96-12-8	67	1,2-Dibromo-3-chloropropane	BQL	ug/L	U	EPA 8260	2.5	13	1	04/08/09		04/16/09
50-02	Trip Blank	106-93-4	68	1,2-Dibromoethane (EDB)	BQL	ug/L	U	EPA 8260	0.27	1	1	04/08/09		04/16/09
50-02	Trip Blank	95-50-1	69	1,2-Dichlorobenzene	BQL	ug/L	U	EPA 8260	0.30	5	1	04/08/09		04/16/09
50-02	Trip Blank	107-06-2	76	1,2-Dichloroethane	BQL	ug/L	U	EPA 8260	0.12	1	1	04/08/09		04/16/09
50-02	Trip Blank	78-87-5	82	1,2-Dichloropropane	BQL	ug/L	U	EPA 8260	0.27	1	1	04/08/09		04/16/09
50-02	Trip Blank	106-46-7	71	1,4-Dichlorobenzene	BQL	ug/L	U	EPA 8260	0.33	1	1	04/08/09		04/16/09
50-02	Trip Blank	78-93-3	141	2-Butanone (MEK)	BQL	ug/L	U	EPA 8260	0.96	100	1	04/08/09		04/16/09
50-02	Trip Blank	591-78-6	124	2-Hexanone	BQL	ug/L	U	EPA 8260	0.46	50	1	04/08/09		04/16/09
50-02	Trip Blank	108-10-1	147	4-Methyl-2-pentanone (MIBK)	BQL	ug/L	U	EPA 8260	0.33	100	1	04/08/09		04/16/09
50-02	Trip Blank	67-64-1	3	Acetone	BQL	ug/L	U	EPA 8260	2.2	100	1	04/08/09		04/16/09
50-02	Trip Blank	107-13-1	8	Acrylonitrile	BQL	ug/L	U	EPA 8260	1.9	200	1	04/08/09		04/16/09
50-02	Trip Blank	71-43-2	16	Benzene	BQL	ug/L	U	EPA 8260	0.25	1	1	04/08/09		04/16/09
50-02	Trip Blank	74-97-5	28	Bromochloromethane	BQL	ug/L	U	EPA 8260	0.17	3	1	04/08/09		04/16/09
50-02	Trip Blank	75-27-4	29	Bromodichloromethane	BQL	ug/L	U	EPA 8260	0.18	1	1	04/08/09		04/16/09
50-02	Trip Blank	75-25-2	30	Bromoform	BQL	ug/L	U	EPA 8260	0.26	3	1	04/08/09		04/16/09
50-02	Trip Blank	74-83-9	136	Bromomethane	BQL	ug/L	U	EPA 8260	0.29	10	1	04/08/09		04/16/09
50-02	Trip Blank	75-15-0	35	Carbon disulfide	BQL	ug/L	U	EPA 8260	1.2	100	1	04/08/09		04/16/09
50-02	Trip Blank	56-23-5	36	Carbon tetrachloride	BQL	ug/L	U	EPA 8260	0.25	1	1	04/08/09		04/16/09
50-02	Trip Blank	108-90-7	39	Chlorobenzene	BQL	ug/L	U	EPA 8260	0.23	3	1	04/08/09		04/16/09
50-02	Trip Blank	75-00-3	41	Chloroethane	BQL	ug/L	U	EPA 8260	0.54	10	1	04/08/09		04/16/09
50-02	Trip Blank	67-66-3	44	Chloroform	BQL	ug/L	U	EPA 8260	0.14	5	1	04/08/09		04/16/09
50-02	Trip Blank	74-87-3	137	Chloromethane	BQL	ug/L	U	EPA 8260	0.11	1	1	04/08/09		04/16/09
50-02	Trip Blank	156-59-2	78	cis-1,2-Dichloroethene	BQL	ug/L	U	EPA 8260	0.19	5	1	04/08/09		04/16/09
50-02	Trip Blank	10061-01-5	86	cis-1,3-Dichloropropene	BQL	ug/L	U	EPA 8260	0.13	1	1	04/08/09		04/16/09
50-02	Trip Blank	124-48-1	66	Dibromochloromethane	BQL	ug/L	U	EPA 8260	0.21	3	1	04/08/09		04/16/09
50-02	Trip Blank	74-95-3	139	Dibromomethane	BQL	ug/L	U	EPA 8260	0.21	10	1	04/08/09		04/16/09
50-02	Trip Blank	100-41-4	110	Ethylbenzene	BQL	ug/L	U	EPA 8260	0.30	1	1	04/08/09		04/16/09
50-02	Trip Blank	74-88-4	142	Iodomethane	BQL	ug/L	U	EPA 8260	0.32	10	1	04/08/09		04/16/09
50-02	Trip Blank	1330-20-7	359	m&p-Xylene	BQL	ug/L	U	EPA 8260	0.66	NE	1	04/08/09		04/16/09
50-02	Trip Blank	75-09-2	140	Methylene Chloride	BQL	ug/L	U	EPA 8260	0.97	1	1	04/08/09		04/16/09

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Jackson County Landfill
Jackson County, North Carolina

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE
50-02	Trip Blank	95-47-6	408	o-Xylene	BQL	ug/L	U	EPA 8260	0.23	NE	1	04/08/09		04/16/09
50-02	Trip Blank	100-42-5	186	Styrene	BQL	ug/L	U	EPA 8260	0.26	1	1	04/08/09		04/16/09
50-02	Trip Blank	127-18-4	192	Tetrachloroethene	BQL	ug/L	U	EPA 8260	0.46	1	1	04/08/09		04/16/09
50-02	Trip Blank	108-88-3	196	Toluene	BQL	ug/L	U	EPA 8260	0.26	1	1	04/08/09		04/16/09
50-02	Trip Blank	156-60-5	79	trans-1,2-Dichloroethene	BQL	ug/L	U	EPA 8260	0.49	5	1	04/08/09		04/16/09
50-02	Trip Blank	10061-02-6	87	trans-1,3-Dichloropropene	BQL	ug/L	U	EPA 8260	0.26	1	1	04/08/09		04/16/09
50-02	Trip Blank	110-57-6	73	trans-1,4-Dichloro-2-butene	BQL	ug/L	U	EPA 8260	1.0	100	1	04/08/09		04/16/09
50-02	Trip Blank	79-01-6	201	Trichloroethene	BQL	ug/L	U	EPA 8260	0.47	1	1	04/08/09		04/16/09
50-02	Trip Blank	75-69-4	203	Trichlorofluoromethane	BQL	ug/L	U	EPA 8260	0.20	1	1	04/08/09		04/16/09
50-02	Trip Blank	108-05-4	210	Vinyl acetate	BQL	ug/L	U	EPA 8260	0.35	50	1	04/08/09		04/16/09
50-02	Trip Blank	75-01-4	211	Vinyl chloride	BQL	ug/L	U	EPA 8260	0.62	1	1	04/08/09		04/16/09
50-02	Trip Blank	1330-20-7	346	Xylene (Total)	BQL	ug/L	U	EPA 8260	0.66	5	1	04/08/09		04/16/09

Notes:

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2. "SWS ID" is the Solid Waste Section Identification Number.
3. "Result" is analytical data reported by the laboratory in units of micrograms per liter (ug/L). "BQL" indicates that the analytical result was Below Quantitation Limits which is represented by Method Detection Limit (MDL).
4. "Qualifier" is a laboratory data qualifier or flag. "U" is used to denote parameters not detected at concentrations above the MDL. "J" is used to denote parameters detected at estimated concentrations above the Method Detection Limit (MDL) but below the Solid Waste Section Limit (SWSL). Italicized J-flags ("*J*") denote values that are above the MDL, but are below both the laboratory's adjusted reporting limit (PQL) and the SWSL.
5. "Method" is the analytical method used to analyze the constituents.
6. Method Detection Limit ("MDL") is the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.
7. "SWSL" is the Solid Waste Section Limit assigned by DENR DWM Solid Waste Section. This limit is the lowest amount of analyte in a sample that can be quantitatively determined with suitable precision and accuracy.
8. "Dilution Factor" is reported as single number and indicates whether dilution of the sample was performed prior to analysis. A value of 1 indicates that the sample was not diluted prior to analysis.
9. "Collect Date" is the date on which the sample was collected in the field.
10. "Extraction Date" is the date on which the sample was prepared/extracted for analysis. If special preparation or extraction was not performed prior to analysis, the data table cell is blank.
11. "Analysis Date" is the date on which the sample was analyzed by the lab.
12. **Bold** numbers indicate a result equal to or in exceedance of the 2L Standard, 2B Standard, or Groundwater Protection Standard (GWPS). If no 2L Standard exists, then values are compared to the GWPS.
13. 2B Standards are listed in "North Carolina Administrative Code, Title 15A: Department of Environment and Natural Resources, Subchapter 2B - Surface Water and Wetland Standards," DENR and EPA standards summary table (last amended on May 1, 2007).
14. 2L Standards are listed in "North Carolina Administrative Code, Title 15A: Department of Environment and Natural Resources, Subchapter 2L - Groundwater Classifications and Standards," DENR, (last amended on December 7, 2006).
15. Groundwater Protection Standard is pursuant to "15A NCAC 13B .1634," NC DENR. Current standards were obtained from http://www.wastenotnc.org/sw/swenvmonitoringlist.asp (last amended on October 23, 2007).
16. NA means Not Applicable. NE means Not Established. NMT means No Measurement Taken.
17. Blank cells indicate that there is no information relevant to the respective row.
18. For DW-01 and DW-02 several parameters are listed in the Pace Analytical Reports under different name than the ones used in this table . These parameters are as follows: methylene chloride see dichloromethane, chlorobenzene see monochlorobenzene, 1,2-dichlorobenzene see o-dichlorobenzene, 1,4-dichlorobenzene see p-dichlorobenzene.

Table 2
Solid Waste Section Limit Exceedance Notification
Jackson County Landfill
Jackson County, North Carolina

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE
50-02	5002-MW-01	7440-48-4	53	Cobalt	27.4	ug/L		EPA 6010	0.60	10	1	04/08/09	04/10/09	04/14/09
50-02	5002-MW-01	75-34-3	75	1,1-Dichloroethane	6.5	ug/L		EPA 8260	0.32	5	1	04/08/09		04/16/09
50-02	5002-MW-01	106-46-7	71	1,4-Dichlorobenzene	**5.6**	ug/L		EPA 8260	0.33	1	1	04/08/09		04/16/09
50-02	5002-MW-01	71-43-2	16	Benzene	**5.8**	ug/L		EPA 8260	0.25	1	1	04/08/09		04/16/09
50-02	5002-MW-01	108-90-7	39	Chlorobenzene	3.1	ug/L		EPA 8260	0.23	3	1	04/08/09		04/16/09
50-02	5002-MW-01	156-59-2	78	cis-1,2-Dichloroethene	10	ug/L		EPA 8260	0.19	5	1	04/08/09		04/16/09
50-02	5002-MW-01	79-01-6	201	Trichloroethene	1.2	ug/L		EPA 8260	0.47	1	1	04/08/09		04/16/09
50-02	5002-MW-03	7440-39-3	15	Barium	141	ug/L		EPA 6010	0.20	100	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-03	7440-48-4	53	Cobalt	44.4	ug/L		EPA 6010	0.60	10	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-03	7440-66-6	213	Zinc	39.4	ug/L		EPA 6010	0.40	10	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-03	106-46-7	71	1,4-Dichlorobenzene	**4.9**	ug/L		EPA 8260	0.33	1	1	04/07/09		04/13/09
50-02	5002-MW-03	108-90-7	39	Chlorobenzene	6.0	ug/L		EPA 8260	0.23	3	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	7440-39-3	15	Barium	135	ug/L		EPA 6010	0.20	100	1	04/07/09	04/09/09	04/14/09
50-02	DUPLICATE/MW-03	7440-48-4	53	Cobalt	44.7	ug/L		EPA 6010	0.60	10	1	04/07/09	04/09/09	04/14/09
50-02	DUPLICATE/MW-03	7440-66-6	213	Zinc	34.9	ug/L		EPA 6010	0.40	10	1	04/07/09	04/09/09	04/14/09
50-02	DUPLICATE/MW-03	106-46-7	71	1,4-Dichlorobenzene	**5.3**	ug/L		EPA 8260	0.33	1	1	04/07/09		04/13/09
50-02	DUPLICATE/MW-03	108-90-7	39	Chlorobenzene	6.3	ug/L		EPA 8260	0.23	3	1	04/07/09		04/13/09
50-02	5002-MW-04	7440-39-3	15	Barium	108	ug/L		EPA 6010	0.20	100	1	04/08/09	04/10/09	04/14/09
50-02	5002-MW-04	7439-97-6	132	Mercury	0.25	ug/L		EPA 7470	0.070	0.2	1	04/08/09	04/10/09	04/10/09
50-02	5002-MW-04	106-46-7	71	1,4-Dichlorobenzene	**7.1**	ug/L		EPA 8260	0.33	1	1	04/08/09		04/16/09
50-02	5002-MW-04	71-43-2	16	Benzene	**1.2**	ug/L		EPA 8260	0.25	1	1	04/08/09		04/16/09
50-02	5002-MW-04	108-90-7	39	Chlorobenzene	5.5	ug/L		EPA 8260	0.23	3	1	04/08/09		04/16/09
50-02	5002-MW-04	156-59-2	78	cis-1,2-Dichloroethene	9.6	ug/L		EPA 8260	0.19	5	1	04/08/09		04/16/09
50-02	5002-MW-05	7440-39-3	15	Barium	161	ug/L		EPA 6010	0.20	100	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-05	7440-43-9	34	Cadmium	**3.4**	ug/L		EPA 6010	0.50	1	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-05	106-46-7	71	1,4-Dichlorobenzene	**15.9**	ug/L		EPA 8260	0.33	1	1	04/07/09		04/13/09
50-02	5002-MW-05	71-43-2	16	Benzene	**1.0**	ug/L		EPA 8260	0.25	1	1	04/07/09		04/13/09
50-02	5002-MW-05	108-90-7	39	Chlorobenzene	8.1	ug/L		EPA 8260	0.23	3	1	04/07/09		04/13/09
50-02	5002-MW-05	156-59-2	78	cis-1,2-Dichloroethene	21.6	ug/L		EPA 8260	0.19	5	1	04/07/09		04/13/09
50-02	5002-MW-06	7440-48-4	53	Cobalt	15.9	ug/L		EPA 6010	0.60	10	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-06	7440-66-6	213	Zinc	81.9	ug/L		EPA 6010	0.40	10	1	04/07/09	04/09/09	04/14/09
50-02	5002-MW-06	75-34-3	75	1,1-Dichloroethane	13.0	ug/L		EPA 8260	0.32	5	1	04/07/09		04/13/09
50-02	5002-MW-06	106-46-7	71	1,4-Dichlorobenzene	**3.2**	ug/L		EPA 8260	0.33	1	1	04/07/09		04/13/09
50-02	5002-MW-06	71-43-2	16	Benzene	**1.4**	ug/L		EPA 8260	0.25	1	1	04/07/09		04/13/09
50-02	5002-MW-06	156-59-2	78	cis-1,2-Dichloroethene	7.1	ug/L		EPA 8260	0.19	5	1	04/07/09		04/13/09
50-02	5002-MW-06	79-01-6	201	Trichloroethene	1.4	ug/L		EPA 8260	0.47	1	1	04/07/09		04/13/09

Table 2
Solid Waste Section Limit Exceedance Notification
Jackson County Landfill
Jackson County, North Carolina

Notes:

1. "CAS Number" is a unique number assigned by the Chemical Abstracts Service (CAS) to an identified parameter.
2. "SWS ID" is the Solid Waste Section Identification Number.
3. "Result" is analytical data reported by the laboratory in units of micrograms per liter (ug/L). "BQL" indicates that the analytical result was Below Quantitation Limits which is represented by Method Detection Limit (MDL).
4. "Qualifier" is a laboratory data qualifier or flag. "U" is used to denote parameters not detected at concentrations above the MDL. "J" is used to denote parameters detected at estimated concentrations above the Method Detection Limit (MDL) but below the Solid Waste Section Limit (SWSL). Italicized J-flags ("*J*") denote values that are above the MDL, but are below both the laboratory's adjusted reporting limit (PQL) and the SWSL.
5. "Method" is the analytical method used to analyze the constituents.
6. Method Detection Limit ("MDL") is the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.
7. "SWSL" is the Solid Waste Section Limit assigned by DENR DWM Solid Waste Section. This limit is the lowest amount of analyte in a sample that can be quantitatively determined with suitable precision and accuracy.
8. "Dilution Factor" is reported as single number and indicates whether dilution of the sample was performed prior to analysis. A value of 1 indicates that the sample was not diluted prior to analysis.
9. "Collect Date" is the date on which the sample was collected in the field.
10. "Extraction Date" is the date on which the sample was prepared/extracted for analysis. If special preparation or extraction was not performed prior to analysis, the data table cell is blank.
11. "Analysis Date" is the date on which the sample was analyzed by the lab.
12. **Bold** numbers indicate a result equal to or in exceedance of the 2L Standard, 2B Standard, or Groundwater Protection Standard (GWPS). If no 2L Standard exists, then values are compared to the GWPS.
13. 2B Standards are listed in "North Carolina Administrative Code, Title 15A: Department of Environment and Natural Resources, Subchapter 2B - Surface Water and Wetland Standards," DENR and EPA standards summary table (last amended on May 1, 2007).
14. 2L Standards are listed in "North Carolina Administrative Code, Title 15A: Department of Environment and Natural Resources, Subchapter 2L - Groundwater Classifications and Standards," DENR, (last amended on December 7, 2006).
15. Groundwater Protection Standard is pursuant to "15A NCAC 13B .1634," NC DENR. Current standards were obtained from http://www.wastenotnc.org/sw/swenvmonitoringlist.asp (last amended on October 23, 2007).
16. NA means Not Applicable. NE means Not Established. NMT means No Measurement Taken.
17. Blank cells indicate that there is no information relevant to the respective row.

Table 3
2L Standard and Groundwater Protection Standard Exceedance Notification
Jackson County Landfill
Jackson County, North Carolina

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	SWSL	2L Standard	GWPS	DILUTION FACTOR	COLLECT DATE	ANALYSIS DATE	CAUSE AND SIGNIFICANCE
50-02	5002-MW-01	106-46-7	71	1,4-Dichlorobenzene	**5.6**	ug/L		EPA 8260	0.33	1	1.4	NE	1	04/08/09	04/16/09	anthropogenic, potential impact to Tuckasegee River
50-02	5002-MW-01	71-43-2	16	Benzene	**5.8**	ug/L		EPA 8260	0.25	1	1	NE	1	04/08/09	04/16/09	anthropogenic, potential impact to Tuckasegee River
50-02	5002-MW-03	106-46-7	71	1,4-Dichlorobenzene	**4.9**	ug/L		EPA 8260	0.33	1	1.4	NE	1`	04/07/09	04/13/09	anthropogenic, potential impact to Tuckasegee River
50-02	DUPLICATE/MW-03	106-46-7	71	1,4-Dichlorobenzene	**5.3**	ug/L		EPA 8260	0.33	1	1.4	NE	1	04/07/09	04/13/09	anthropogenic, potential impact to Tuckasegee River
50-02	5002-MW-04	106-46-7	71	1,4-Dichlorobenzene	**7.1**	ug/L		EPA 8260	0.33	1	1.4	NE	1	04/08/09	04/16/09	anthropogenic, potential impact to Tuckasegee River
50-02	5002-MW-04	71-43-2	16	Benzene	**1.2**	ug/L		EPA 8260	0.25	1	1	NE	1	04/08/09	04/16/09	anthropogenic, potential impact to Tuckasegee River
50-02	5002-MW-04	75-01-4	211	Vinyl chloride	**0.78**	ug/L	J	EPA 8260	0.62	1	0.015	NE	1	04/08/09	04/16/09	anthropogenic, potential impact to Tuckasegee River
50-02	5002-MW-05	7440-43-9	34	Cadmium	**3.4**	ug/L		EPA 6010	0.50	1	1.75	NE	1	04/07/09	04/14/09	naturally occurring, potential impact to Tuckasegee River
50-02	5002-MW-05	106-46-7	71	1,4-Dichlorobenzene	**15.9**	ug/L		EPA 8260	0.33	1	1.4	NE	1	04/07/09	04/13/09	anthropogenic, potential impact to Tuckasegee River
50-02	5002-MW-05	71-43-2	16	Benzene	**1.0**	ug/L		EPA 8260	0.25	1	1	NE	1	04/07/09	04/13/09	anthropogenic, potential impact to Tuckasegee River
50-02	5002-MW-05	75-01-4	211	Vinyl chloride	**0.99**	ug/L	J	EPA 8260	0.62	1	0.015	NE	1	04/07/09	04/13/09	anthropogenic, potential impact to Tuckasegee River
50-02	5002-MW-06	106-46-7	71	1,4-Dichlorobenzene	**3.2**	ug/L		EPA 8260	0.33	1	1.4	NE	1	04/07/09	04/13/09	anthropogenic, potential impact to Tuckasegee River
50-02	5002-MW-06	71-43-2	16	Benzene	**1.4**	ug/L		EPA 8260	0.25	1	1	NE	1	04/07/09	04/13/09	anthropogenic, potential impact to Tuckasegee River

Notes:

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2. "SWS ID" is the Solid Waste Section Identification Number.
3. "Result" is analytical data reported by the laboratory in units of micrograms per liter (ug/L). "BQL" indicates that the analytical result was Below Quantitation Limits which is represented by Method Detection Limit (MDL).
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7. "SWSL" is the Solid Waste Section Limit assigned by DENR DWM Solid Waste Section. This limit is the lowest amount of analyte in a sample that can be quantitatively determined with suitable precision and accuracy.
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13. 2B Standards are listed in "North Carolina Administrative Code, Title 15A: Department of Environment and Natural Resources, Subchapter 2B - Surface Water and Wetland Standards," DENR and EPA standards summary table (last amended on May 1, 2007).
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16. NA means Not Applicable. NE means Not Established. NMT means No Measurement Taken.
17. Blank cells indicate that there is no information relevant to the respective row.

Table 4
Well Construction Details and Corresponding Elevations
Jackson County Landfill
Jackson County, North Carolina
April 7 and 8, 2009

FACILITY PERMIT	Well ID	Ground Surface Elevation	TOC Elevation	Depth To Water (feet below TOC)	Groundwater Elevation	Depth to Bedrock (from Ground Surface)	Bedrock Elevation	Screened Interval (from Ground Surface)	Elevation of Screened Interval
50-02	MW-01	2169.40	2171.42	106.41	2065.01	83.0	2086.40	95 to 110	2074.4 to 2059.4
50-02	MW-02	2013.15	2015.38	26.45	1988.93	13.0	2000.15	45 to 60	1968.2 to 1953.2
50-02	MW-03	2044.16	2045.53	50.11	1995.42	57.0	1987.16	48.5 to 63.5	1995.7 to 1980.7
50-02	MW-04	1978.68	1980.77	28.45	1952.32	NA	NA	25 to 40	1953.7 to 1938.7
50-02	MW-05	2027.38	2028.97	52.08	1976.89	NA	NA	50 to 60	1977.4 to 1967.4
50-02	MW-06	2136.58	2139.57	93.35	2046.22	47.6	2088.98	84.6 to 94.6	2052.0 to 2042.0

Notes:

1. All measurements are in feet. Elevations are measured relative to mean sea level and are based on a survey completed on April 9, 1999 by Davenport & Assoc., Inc.
2. TOC means Top of Casing.
3. NA means Not Applicable.
4. MW-01 through MW-04 Depth to Bedrock and Screened Interval taken from boring logs completed on April 21, 22, and 23, 1992 by S&ME.
5. MW-05 Screened Interval taken from boring log completed on September 23, 1994 by AAA Greene Bros. of Sylva.
6. MW-06 Depth to Bedrock and Screened Interval taken from Altamont boring log completed March 23, 2004.
7. Depth to water measured on April 7 and 8, 2009.

APPENDICES

APPENDIX A

WELL SAMPLING LOGS
AND
EQUIPMENT CALIBRATION DATA SHEETS

ALTAMONT ENVIRONMENTAL, INC.
ENGINEERING & HYDROGEOLOGY
50 COLLEGE STREET, ASHEVILLE, NC 28801
TEL. 828.281.3350 FAC .828.281.3351
www.altamontenvironmental.com

Surface Water Sampling Log

FACILITY NAME: JACKSON COUNTY LF DATE: 4/~~7~~8/05
LOCATION: TUCKASEGEE RIVER (UPSTREAM) SAMPLING TIME: 1400
SAMPLING PERSONNEL: A. MACBETH, C. MCGEEHAN WEATHER: CLEAR, MILD

SAMPLE NAME: SW-01

START TIME: 1355
END TIME: 1400

COMMENTS: SAMPLE COLLECTED FROM RELATIVELY CALM PART OF RIVER, ~30 FT UPSTREAM OF SMALL RIFFLES. ~300 FT. DOWNSTREAM OF A ~1.5 FT LEDGE. COLLECT SAMPLE FROM A POORLY DEFINED EDDY. ~6-INCHES OF WATER.

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

READING	pH UNITS	SPECIFIC COND. ~~(µS)~~ mS/cm²	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	6.14	0.031	8.05	12.53	350.1	NMT → CLEAR	
2						↳ NO MEASUREMENT	
3						TAKEN	
4							
5							
6							
7							
8							
9							

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
125 ml PLASTIC		
250 ml PLASTIC	1	APP. I METALS
500 ml PLASTIC		
40 ml GLASS	3	APP. I VOCS.
1 L GLASS		
OTHER		

VEGETATION: ACCESS: X

Sampling Personnel Signature: A. MacBeth **Date:** 4/7/05

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

ALTAMONT ENVIRONMENTAL, INC.
ENGINEERING & HYDROGEOLOGY
50 COLLEGE STREET, ASHEVILLE, NC 28801
TEL. 828.281.3350 FAC .828.281.3351
www.altamontenvironmental.com

TUCKASEGEE

Surface Water Sampling Log

FACILITY NAME: JACKSON CO. LF	DATE: ~~4/7/01~~ 4/7/09
LOCATION: ~~SW-02~~ (DOWNSTREAM)	SAMPLING TIME: 1540
SAMPLING PERSONNEL: A. MALBON, C. MCGEHAN	WEATHER: CLOUDY, COLD, INTERMITTENT SNOW

SAMPLE NAME: SW-02

START TIME: 1535

END TIME: 1540

COMMENTS: SAMPLE COLLECTED ~50 FT DOWNSTREAM OF RIFFLE WITHIN A POORLY DEFINED BODY ALONG BANK. ~6 INCHES OF WATER. SANDY/MICA SUBSTRATE.

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

READING	pH UNITS	SPECIFIC COND. ~~(µS)~~ (mS/cm²)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	6.84	0.027	7.90	12.48	223.1	5.39	
2							
3							
4							
5							
6							
7							
8							
9							

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
125 ml PLASTIC		
250 ml PLASTIC	1	APP. I METALS
500 ml PLASTIC		
40 ml GLASS	3	APP. I VOCS.
1 L GLASS		
OTHER		

VEGETATION: _____ ACCESS: X

Sampling Personnel Signature: A. Malbon **Date:** 4/7/09

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

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mS

97 - 112' TOC
5.6' H_2O
0.45 gal/vol

Low-Flow Sampling Data Sheet

Project Name: JACKSON CO. LF
Project Number: 2040.12
Personnel: A. MACBETH
B. SHEAR
Date: 4/8/09

Well ID: MW-01
Screen Interval: 95-110' bgs
Depth to Water: 106.41' toc
Stickup: 2.15'
Depth of Pump Intake: 104 toc
Drawdown Set: toc → NO DD FOR THIS.

Arrive at Well: 1105
Start Time: 1115
Sample Time: 1210
Finish Sample Time: 1220
Leave Well: 1230

Time	DTW (feet)	Temp (°C)	pH	Conductivity (µS)	ORP (mV)	DO (mg/L)	Turbidity NTU
1115	106.4	SMART PUMP WELL					
1135	106.53	16.60	5.73	.282	46.2	2.53	1.34
1138	106.62	16.76	5.71	.281	43.0	2.08	2.21
1141	106.55	17.01	5.66	.279	38.7	1.22	2.01
1143	106.54	17.20	5.65	.275	35.4	1.00	1.78
1146	106.62	16.99	5.65	.273	32.3	.84	2.08
1149	106.60	17.21	5.64	.268	30.3	1.01	2.05
1152	106.56	17.41	5.62	.259	28.9	1.09	2.07
1155	106.60	17.34	5.61	.252	28.0	1.09	2.01
1158	106.52	17.41	5.61	.243	27.5	1.20	1.40
1201	106.59	17.48	5.59	.239	27.9	1.20	1.64
1204 (1 gal)	106.59	17.51	5.59	.236	28.1	1.21	1.47

STABILIZATION
3 successive readings, 3 minutes apart:
within +/- 10% DO and turbidity; +/- 3% Conductivity; +/- 0.1 pH unit; +/- 10 mV for ORP
from *EPA - Low-Flow (Minimal Drawdown) Groundwater Sampling Procedures,* April 1996

Time between discharge cycles during sample collection: _____

Comments:
fill time = 30s
Discharge = 35s
(heavy methane odor coming from well)

Sample name: MW-01
Sampling Technician Name: A. MACBETH
Signature: A. Macbeth

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mS

47.5 - 62.5' PVC
36.05' H_2O
6.1 gal/vol.

Low-Flow Sampling Data Sheet

Project Name: JACKSON CO. LF
Project Number: 2040.12
Personnel: A. MACBETH
B. SHIMAI
Date: 4/8/09

Well ID: MW-02
Screen Interval: 45-60 bgs
Depth to Water: 26.45 toc
Stickup: 2.5 ft
Depth of Pump Intake: 55 toc
Drawdown Set: ~~toc~~ → NO DD CRUIP.

Arrive at Well: 940
Start Time: 9:59
Sample Time: 10:40
Finish Sample Time: 10:45
Leave Well: 10:55

Time	DTW (feet)	Temp (°C)	pH	Conductivity (µS)	ORP (mV)	DO (mg/L)	Turbidity NTU
~~10:04~~ 9:59	26.9	START PURGING					
1007	28.3	12.53	5.74	.164	375.5	48.9	4.38
1010	28.4	12.56	5.75	.164	365.5	48.7	3.96
1013	28.56	12.54	5.76	.163	347.8	50.5	2.38
1016 (.75 g)	28.5	12.61	5.80	.162	330.2	52.8	1.44
1019	28.35	12.53	5.73	.161	322.8	53.2	.83
1022	28.40	12.52	5.95	.159	310.1	56.2	1.00
1025	28.35	12.71	5.93	.158	308.2	53.1	.80
1028	28.43	12.77	5.97	.158	301.1	56.8	.93

STABILIZATION

3 successive readings, 3 minutes apart:
within +/- 10% DO and turbidity; +/- 3% Conductivity; +/- 0.1 pH unit; +/- 10 mV for ORP
from *EPA - Low-Flow (Minimal Drawdown) Groundwater Sampling Procedures,* April 1996

Time between discharge cycles during sample collection: _____

Comments:

Total vol. pumped = 1.3 g
~~25~~ sec = discharge
40 sec = fill time

Sample name: _____

Sampling Technician Name: _____

Signature: _____

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49.75 - 64.75' TOC
14.64 FT of H2O

Low-Flow Sampling Data Sheet

Project Name: Jackson Co. Landfill **Well ID:** MW-03 **Arrive at Well:** 1336
Project Number: 2040.12 **Screen Interval:** 48.5 - 63.5 bgs **Start Time:** 1350
Personnel: A. ~~MUBEEN~~ MACBETH **Depth to Water:** 50.11 toc **Sample Time:** 1447
~~B. SHAMAR~~ C. McCLELLAN **Stickup:** 1.25 FT **Finish Sample Time:** 1454
Date: 4/7/09 **Depth of Pump Intake:** 57 toc **Leave Well:**
Drawdown Set: toc → no DD equip.

Time	DTW (feet) TOC	Temp (°C)	pH	Conductivity (µS) mS/cm	ORP (mV)	DO (mg/L)	Turbidity NTU
1402	50.30	13.93	5.48	0.315	206.1	1.13	0.00
1405	50.31	13.88	5.47	0.316	206.1	1.07	0.00
1408	50.41	14.37	5.47	0.317	206.0	1.04	0.00
1411	50.43	14.44	5.47	0.318	205.8	1.06	0.00
1414	50.40	14.37	5.46	0.318	205.8	1.02	0.00
1417	50.44	14.65	5.46	0.319	206.0	0.98	0.00
1420	50.47	14.81	5.47	0.320	206.2	0.92	0.00
1423	50.36	14.25	5.47	0.320	205.1	1.20	0.91
1427/2.4gal	50.40	14.38	5.46	0.320	206.7	1.02	0.87
1429	50.37	14.23	5.46	0.320	207.3	1.01	0.01
1433	50.41	14.16	5.46	0.320	208.4	1.02	0.40
1436	50.42	13.86	5.46	0.320	209.7	1.08	0.01
1439	50.36	13.83	5.46	0.320	210.5	1.14	0.00
1442	50.40	13.85	5.45	0.320	211.6	1.15	0.

STABILIZATION
3 successive readings, 3 minutes apart:
within +/- 10% DO and turbidity; +/- 3% Conductivity; +/- 0.1 pH unit; +/- 10 mV for ORP
from *EPA - Low-Flow (Minimal Drawdown) Groundwater Sampling Procedures,* April 1996

1 VOL = 2.5 gal.

Time between discharge cycles during sample collection:

Comments:

ALSO, COLLECT DUPLICATE ASSOCIATED W/ MW-03

Sample name: MW-03

Sampling Technician Name: A. MACBETH.

Signature: A. Macbeth

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mS

27.3 - 42.3' TOC
13.85' H_2O
2.4 gal/vol.

Low-Flow Sampling Data Sheet

Project Name: Jackson Co.
Project Number: 2040.
Personnel: A. MACBETH
B. SHOMAI
Date: 4/8/09

Well ID: MW-04
Screen Interval: 25-40 bgs
Depth to Water: 28.45' toc
Stickup: 2.3'
Depth of Pump Intake: 35' toc
Drawdown Set: ~~toc~~ → NO DD EQUIP.

Arrive at Well:
Start Time: 1338
Sample Time: 1435
Finish Sample Time: 1440
Leave Well: 1450

Time	DTW (feet) TOC	Temp (°C)	pH	Conductivity (µS)	ORP (mV)	DO (mg/L)	Turbidity NTU
1338	28.36	START PURGING					
1415 (23 g)	28.63	14.33	5.30	.536	511.5	.48	.96
1418	28.62	14.42	5.29	.538	520.1	.41	.48
1421	28.68	14.44	5.30	.538	523.3	.42	.56
1424	28.66	14.35	5.29	.540	528.2	.39	.53

STABILIZATION
3 successive readings, 3 minutes apart:
within +/- 10% DO and turbidity; +/- 3% Conductivity; +/- 0.1 pH unit; +/- 10 mV for ORP
from *EPA - Low-Flow (Minimal Drawdown) Groundwater Sampling Procedures,* April 1996

Time between discharge cycles during sample collection:

Comments: Discharge = 15 sec
fill = 25 sec
3 gallons ~~collected~~ purged from well.

Sample name: ~~A~~ MW-04

Sampling Technician Name: A. MACBETH

Signature: A. Macbeth

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Well Sampling Log

1000 - 1109

FACILITY NAME: JACKSON CO. LF	DATE: 4/7/09
LOCATION: WEST OF DILLSBORO	SAMPLING TIME: 1107
SAMPLING PERSONNEL: A. MALBON, C. MCGOWAN	WEATHER: COLD, SNOW

WELL NUMBER: MW-05	WELL DEPTH IN FEET (WD): 60.1 TOC	START TIME: 1000
WELL DIAMETER: 2 IN.	WATER LEVEL IN FEET (WL): 52.08	
TYPE OF CASING: PVC	LENGTH OF WATER COLUMN: 7.92 FEET	
MEASURING POINT: TOC	(WD) - (WL) = (LWC)	
FLUSH MOUNT / STICK-UP	ONE CASING VOLUME: 1.34 GALLONS	
COMMENTS:	(LWC) x (WCV)	
	THREE CASING VOLUMES: 4.04 GALLONS	
	ACTUAL VOLUME PURGED: 4.5 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)~~ (mS/cm)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	1.5	6.11	0.661	13.80	4.01	145.3	4.11	CLEAR
2	3.0	6.08	0.726	14.56	2.81	71.1	3.83	
3	4.5	6.04		14.01	2.46	26.5	3.3	
4			0.745					
5								
6								
7								
8								
9								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC	1	METALS APP I
40 ml GLASS	3	VOCS APP I
1 L GLASS		
OTHER		

PROTECTIVE CASING: X PAD: X LOCK: X VEGETATION: X ACCESS: Ok

Sampling Personnel Signature: A. Malbon **Date:** 4/7/09

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

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87.6 – 97.56' TOC

Low-Flow Sampling Data Sheet

4.21 FT OF H_2O

Project Name: JACKSONVILLE
Project Number: 204.0.12
Personnel: A. MACBEM, C. MCGUIGAN
Date: 4/7/09

Well ID: MW-06
Screen Interval: 84.6 – 94.6 bgs
Depth to Water: 93.35 toc = 90.39555
Stickup: 35.5" = 2.96
Depth of Pump Intake: 96' toc
Drawdown Set: ~~toc~~ → NO DD EQUIP.

Arrive at Well: 1130
Start Time: 1200
Sample Time: 1252
Finish Sample Time: 1255
Leave Well: 1305

Time / Q Volume pumped	DTW (feet)	Temp (°C)	pH	Conductivity mS/cm² (µS)/cm²	ORP (mV)	DO (mg/L)	Turbidity NTU
1217	94.45	13.14	5.28	0.104	118.2	~~11.70~~	2.71
1220	94.85	13.27	5.29	0.104	113.7	1.59	2.61
	lowered	pump to	97'				
1223	94.95	13.20	5.28	0.104	117.7	1.12	1.55
1226	94.80	13.74	5.29	0.103	117.0	1.24	1.06
1229	94.95	14.13	5.48	0.116	103.4	0.98	3.92
1232	95.20	14.19	5.58	0.159	80.2	0.94	4.17
1235	95.17	14.28	5.68	0.176	74.4	0.88	4.81
1238 / 0.7 gal.	95.21	14.28	5.70	0.193	68.4	0.83	5.90
1241	95.30	14.14	5.61	0.190	71.4	0.82	5.90
1244	95.38	14.10	5.60	0.182	72.9	0.86	5.96
1247							

STABILIZATION
3 successive readings, 3 minutes apart:
within +/- 10% DO and turbidity; +/- 3% Conductivity; +/- 0.1 pH unit; +/- 10 mV for ORP
from *EPA - Low-Flow (Minimal Drawdown) Groundwater Sampling Procedures,* April 1996

Fill time : 60
Discharge tio 30

Time between discharge cycles during sample collection: 60 SECS.

Comments:
NO DRAW DOWN FEATURE W/ ½" TAPE. / VOL = 0.7 gal.
One well volume purged after 5 parameter readings were collected.

Sample name: MW-06
Sampling Technician Name: A. MACBEM
Signature: A. MacBem

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ARRIVE: 1603

Well Sampling Log

FACILITY NAME: JACKSON CO. C.I.	DATE: 4/7/09
LOCATION: WILLIE RESIDENCE	SAMPLING TIME:
SAMPLING PERSONNEL: APM, CM	WEATHER: COLD, SNOWY, BLUSTERY

WELL NUMBER: DW-01	WELL DEPTH IN FEET (WD): —	START TIME:
WELL DIAMETER:	WATER LEVEL IN FEET (WL): —	
TYPE OF CASING:	LENGTH OF WATER COLUMN: — FEET	
MEASURING POINT:	(WD) - (WL) = (LWC)	
FLUSH MOUNT / STICK-UP	ONE CASING VOLUME: — GALLONS	
COMMENTS: COLLECTED SAMPLE FROM SPIGOT IN FRONT OF HOUSE.	(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) mS/cm²	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	INITIAL	6.71	0.084	14.17	2.95	284.2	0.37	
2	5	6.82	0.079	12.96	2.81	266.9	0.48	
3	10	6.61	0.076	13.63	~~3.01~~ 2.85	247.2	0.21	
4	15	6.65	0.078	13.21	2.17	233.9	0.27	
5	20	6.61	0.069	13.60	4.72	225.4	0.49	
6								
7								
8								
9								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC		
40 ml GLASS	3	VOCs for 524.2
1 L GLASS		
OTHER		

PROTECTIVE CASING: PAD: LOCK: VEGETATION: ACCESS:

Sampling Personnel Signature: [signature] **Date:** 4/7/09

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: JACKSON CO. LF.	DATE: ~~4/7/09~~ 4/8/09
LOCATION: BULLEN RESIDENCE	SAMPLING TIME: ~~1645~~
SAMPLING PERSONNEL: A. MALBON, C. MALBON	WEATHER: ~~COLD, SNOW, BLUSTERY~~

WELL NUMBER: BW-2
WELL DIAMETER:
TYPE OF CASING:
MEASURING POINT:
FLUSH MOUNT / STICK-UP
COMMENTS: COLLECTED SAMPLE AT SPIGOT ON PRESSURE TANK

WELL DEPTH IN FEET (WD):
WATER LEVEL IN FEET (WL):
LENGTH OF WATER COLUMN : FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: GALLONS
ACTUAL VOLUME PURGED: 20 GALLONS

START TIME:

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)~~ mS	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	1min	6.04	0.066	12.49	4.60	321.2	51.36	
2	5	5.85	0.051	11.06	4.91	285.3	36.29	
3	10	6.21	0.058	11.8	4.81	269.2	15.3	
4	15	5.87	0.050	11.92	5.48	176.9	24.8	
5	20	5.83	0.058	11.85	5.27	185.3	24.01	
6								
7								
8								
9								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC		
40 ml GLASS	3	VOCs 524.2
1 L GLASS		
OTHER		

PROTECTIVE CASING: PAD: LOCK: VEGETATION: ACCESS:

Sampling Personnel Signature: A. Malbon **Date:** 4/8/09

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

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Equipment Documentation & Instrument Calibration Data Sheet

Project Name: JACKSON CO. LP
Project Number:
Project Location: SYLVA, NC

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	

Calibration Documentation

Person Conducting Calibration: A. MACBETH
Date of Calibration: 4/7/09
Date of Field Measurements: 4/7/09

Micro TPW Turbidity Meter

Calibration Time	Calib Standard Exp	Instrument Serial #	Instrument Reading		
			1000 NTU	10.0 NTU	0.02 NTU
075	4/10	200601045	Initial: 986 Cal: 1000	Initial: 9.6 Cal: 10.0	Initial: 0.01 Cal: 0.02

YSI 556 Multiparameter Meter → SN = 2066 (RENTAL)

Calibration Time	Calib Standard Expiration Date	Instrument Serial Number	Instrument Readings						
			pH 7	pH 4	pH 10	QC pH 7	Spec. Cond. (447)/84/23 µS	QC 84 µS	ORP 200 mV
745-805		~~07D100979~~ 2066	Initial: 6.99 Cal: 7.00	Initial: 3.96 Cal: 4.00	Initial: 9.70 Cal: 10.00	Meas: 7.08	Initial: 439 Cal: 447	Meas: 82	Initial: 196.2 Cal: 200
			Initial: Cal:	Initial: Cal:	Initial: Cal:	Meas:	Initial: Cal:	Meas:	Initial: Cal:

Comments: ALSO CAL. DO% TO AMBIENT AIR.

Signature and Date: A. MacBeth 4/7/09

Note: Electronic equipment calibrated according to the manufacturer's operation manual. Specific Conductivity should be calibrated according to values representative of historic range
Order of Calibration is as follows : Specific Conductivity, pH 7, pH 4, pH 10, ORP, QC checks.

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Equipment Documentation & Instrument Calibration Data Sheet

Project Name: JACKSON CO. LF
Project Number:
Project Location: SYLVA, NC

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	

Calibration Documentation

Person Conducting Calibration: A. MALGEM
Date of Calibration: 4/8/09
Date of Field Measurements: 4/8/09

Micro TPW Turbidity Meter

Calibration Time	Calib Standard Exp	Instrument Serial #	Instrument Reading 1000 NTU	10.0 NTU	0.02 NTU
745	4/10	200601045	Initial: 684 Cal:	Initial: 8.12 Cal:	Initial: 0.01 Cal: 0.02

YSI 556 Multiparameter Meter

Calibration Time	Calib Standard Expiration Date	Instrument Serial Number	Instrument Readings 11/09 pH 7	pH 4 (7.05 / 7.00)	pH 10	QC pH 7	Spec. Cond. 447/84/23 µS	QC 84 µS	ORP 200 mV
0730-		~~07D100979~~ 2086	Initial: Cal:	Initial: 3.91 Cal: 4.00	Initial: 9.96 Cal: 10.00	Meas: 7.03	Initial: 436 Cal: 447	Meas: 91	Initial: 201.1 Cal: 200.0
			Initial: Cal:	Initial: Cal:	Initial: Cal:	Meas:	Initial: Cal:	Meas:	Initial: Cal:

ALSO CALIBRATE DO TO 100% / AMBIENT AIR

Comments:

Signature and Date:

Note: Electronic equipment calibrated according to the manufacturer's operation manual. Specific Conductivity should be calibrated according to values representative of historic range
Order of Calibration is as follows : Specific Conductivity, pH 7, pH 4, pH 10, ORP, QC checks.

APPENDIX B

LABORATORY ANALYTICAL REPORTS

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

April 22, 2009

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

RE: Project: JACKSON CO LF 04/08
Pace Project No.: 9241680

Dear Mr. Lenk:
Enclosed are the analytical results for sample(s) received by the laboratory on April 07, 2009. 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: JACKSON CO LF 04/08
Pace Project No.: 9241680

Minnesota Certification IDs

Pennsylvania Certification #: 68-00563
Alaska Certification #: UST-078
Washington Certification #: C754
Wisconsin Certification #: 999407970
Oregon Certification #: MN200001
North Dakota Certification #: R-036
North Carolina Certification #: 530
New York Certification #: 11647
New Jersey Certification #: MN-002
Montana Certification #: MT CERT0092
Minnesota Certification #: 027-053-137
Maine Certification #: 2007029
Louisiana Certification #: 03086
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Tennessee Certification #: 04010
Virginia Certification #: 00213
West Virginia Certification #: 357
South Carolina Certification #: 990060001
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana/LELAP Certification #: 04034
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North Carolina Wastewater Certification #: 12
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Virginia Certification #: 00072
North Carolina Drinking Water Certification #: 37712
North Carolina Bioassay Certification #: 9
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South Carolina Bioassay Certification #: 99030002
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SAMPLE SUMMARY

Project: JACKSON CO LF 04/08
Pace Project No.: 9241680

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9241680001	5002-MW-05	Water	04/07/09 11:07	04/07/09 17:59
9241680002	5002-MW-06	Water	04/07/09 12:55	04/07/09 17:59
9241680003	5002-MW-03	Water	04/07/09 14:54	04/07/09 17:59
9241680004	5002-SW-02	Water	04/07/09 15:40	04/07/09 17:59
9241680005	DUPLICATE	Water	04/07/09 14:54	04/07/09 17:59

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SAMPLE ANALYTE COUNT

Project: JACKSON CO LF 04/08
Pace Project No.: 9241680

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9241680001	5002-MW-05	EPA 6010	EWS	14	PASI-A
		EPA 6020	RJS	1	PASI-M
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	53	PASI-C
9241680002	5002-MW-06	EPA 6010	EWS	14	PASI-A
		EPA 6020	RJS	1	PASI-M
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	53	PASI-C
9241680003	5002-MW-03	EPA 6010	EWS	14	PASI-A
		EPA 6020	RJS	1	PASI-M
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	53	PASI-C
9241680004	5002-SW-02	EPA 6010	EWS	14	PASI-A
		EPA 6020	RJS	1	PASI-M
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	53	PASI-C
9241680005	DUPLICATE	EPA 6010	EWS	14	PASI-A
		EPA 6020	RJS	1	PASI-M
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	53	PASI-C

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ANALYTICAL RESULTS

Project: JACKSON CO LF 04/08
Pace Project No.: 9241680

Sample: 5002-MW-05 **Lab ID: 9241680001** Collected: 04/07/09 11:07 Received: 04/07/09 17:59 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	04/09/09 10:35	04/14/09 01:44	7440-36-0	
Arsenic	ND	ug/L	5.0	2.7	1	04/09/09 10:35	04/14/09 01:44	7440-38-2	
Barium	**161**	ug/L	5.0	0.20	1	04/09/09 10:35	04/14/09 01:44	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	04/09/09 10:35	04/14/09 01:44	7440-41-7	
Cadmium	**3.4**	ug/L	1.0	0.50	1	04/09/09 10:35	04/14/09 01:44	7440-43-9	
Chromium	ND	ug/L	5.0	0.40	1	04/09/09 10:35	04/14/09 01:44	7440-47-3	
Cobalt	**4.9J**	ug/L	5.0	0.60	1	04/09/09 10:35	04/14/09 01:44	7440-48-4	
Copper	ND	ug/L	5.0	0.30	1	04/09/09 10:35	04/14/09 01:44	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	04/09/09 10:35	04/14/09 01:44	7439-92-1	
Nickel	ND	ug/L	5.0	1.7	1	04/09/09 10:35	04/14/09 01:44	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	04/09/09 10:35	04/14/09 01:44	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	04/09/09 10:35	04/14/09 01:44	7440-22-4	
Vanadium	ND	ug/L	5.0	0.20	1	04/09/09 10:35	04/14/09 01:44	7440-62-2	
Zinc	ND	ug/L	10.0	0.40	1	04/09/09 10:35	04/14/09 01:44	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020								
Thallium	ND	ug/L	0.50	0.25	1	04/15/09 15:19	04/20/09 14:07	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.12J**	ug/L	0.20	0.070	1	04/10/09 10:25	04/10/09 16:52	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		04/13/09 21:43	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		04/13/09 21:43	107-13-1	
Benzene	**1.0**	ug/L	1.0	0.25	1		04/13/09 21:43	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		04/13/09 21:43	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/13/09 21:43	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		04/13/09 21:43	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		04/13/09 21:43	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		04/13/09 21:43	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		04/13/09 21:43	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/13/09 21:43	56-23-5	
Chlorobenzene	**8.1**	ug/L	1.0	0.23	1		04/13/09 21:43	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		04/13/09 21:43	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		04/13/09 21:43	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		04/13/09 21:43	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		04/13/09 21:43	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		04/13/09 21:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		04/13/09 21:43	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		04/13/09 21:43	74-95-3	
1,2-Dichlorobenzene	**0.43J**	ug/L	1.0	0.30	1		04/13/09 21:43	95-50-1	
1,4-Dichlorobenzene	**15.9**	ug/L	1.0	0.33	1		04/13/09 21:43	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		04/13/09 21:43	110-57-6	
1,1-Dichloroethane	**0.32J**	ug/L	1.0	0.32	1		04/13/09 21:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/13/09 21:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		04/13/09 21:43	75-35-4	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 04/08
Pace Project No.: 9241680

Sample: 5002-MW-05 **Lab ID: 9241680001** Collected: 04/07/09 11:07 Received: 04/07/09 17:59 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
cis-1,2-Dichloroethene	**21.6**	ug/L	1.0	0.19	1		04/13/09 21:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		04/13/09 21:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		04/13/09 21:43	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		04/13/09 21:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		04/13/09 21:43	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/13/09 21:43	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		04/13/09 21:43	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		04/13/09 21:43	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		04/13/09 21:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		04/13/09 21:43	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		04/13/09 21:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		04/13/09 21:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		04/13/09 21:43	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		04/13/09 21:43	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/13/09 21:43	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/13/09 21:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		04/13/09 21:43	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		04/13/09 21:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/13/09 21:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/13/09 21:43	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		04/13/09 21:43	108-05-4	
Vinyl chloride	**0.99J**	ug/L	1.0	0.62	1		04/13/09 21:43	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		04/13/09 21:43	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/13/09 21:43	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		04/13/09 21:43	95-47-6	
4-Bromofluorobenzene (S)	99	%	87-109		1		04/13/09 21:43	460-00-4	
Dibromofluoromethane (S)	102	%	85-115		1		04/13/09 21:43	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	79-120		1		04/13/09 21:43	17060-07-0	
Toluene-d8 (S)	98	%	70-120		1		04/13/09 21:43	2037-26-5	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 04/08
Pace Project No.: 9241680

Sample: 5002-MW-06 **Lab ID: 9241680002** Collected: 04/07/09 12:55 Received: 04/07/09 17:59 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	04/09/09 10:35	04/14/09 01:48	7440-36-0	
Arsenic	ND	ug/L	5.0	2.7	1	04/09/09 10:35	04/14/09 01:48	7440-38-2	
Barium	**48.2**	ug/L	5.0	0.20	1	04/09/09 10:35	04/14/09 01:48	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	04/09/09 10:35	04/14/09 01:48	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	04/09/09 10:35	04/14/09 01:48	7440-43-9	
Chromium	ND	ug/L	5.0	0.40	1	04/09/09 10:35	04/14/09 01:48	7440-47-3	
Cobalt	**15.9**	ug/L	5.0	0.60	1	04/09/09 10:35	04/14/09 01:48	7440-48-4	
Copper	**0.43J**	ug/L	5.0	0.30	1	04/09/09 10:35	04/14/09 01:48	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	04/09/09 10:35	04/14/09 01:48	7439-92-1	
Nickel	**8.5**	ug/L	5.0	1.7	1	04/09/09 10:35	04/14/09 01:48	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	04/09/09 10:35	04/14/09 01:48	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	04/09/09 10:35	04/14/09 01:48	7440-22-4	
Vanadium	ND	ug/L	5.0	0.20	1	04/09/09 10:35	04/14/09 01:48	7440-62-2	
Zinc	**81.9**	ug/L	10.0	0.40	1	04/09/09 10:35	04/14/09 01:48	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020								
Thallium	ND	ug/L	0.50	0.25	1	04/15/09 15:19	04/20/09 14:19	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.070	1	04/10/09 10:25	04/10/09 16:55	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		04/13/09 22:02	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		04/13/09 22:02	107-13-1	
Benzene	**1.4**	ug/L	1.0	0.25	1		04/13/09 22:02	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		04/13/09 22:02	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/13/09 22:02	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		04/13/09 22:02	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		04/13/09 22:02	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		04/13/09 22:02	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		04/13/09 22:02	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/13/09 22:02	56-23-5	
Chlorobenzene	**1.3**	ug/L	1.0	0.23	1		04/13/09 22:02	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		04/13/09 22:02	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		04/13/09 22:02	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		04/13/09 22:02	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		04/13/09 22:02	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		04/13/09 22:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		04/13/09 22:02	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		04/13/09 22:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		04/13/09 22:02	95-50-1	
1,4-Dichlorobenzene	**3.2**	ug/L	1.0	0.33	1		04/13/09 22:02	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		04/13/09 22:02	110-57-6	
1,1-Dichloroethane	**13.0**	ug/L	1.0	0.32	1		04/13/09 22:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/13/09 22:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		04/13/09 22:02	75-35-4	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 04/08
Pace Project No.: 9241680

Sample: 5002-MW-06 **Lab ID: 9241680002** Collected: 04/07/09 12:55 Received: 04/07/09 17:59 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
cis-1,2-Dichloroethene	**7.1**	ug/L	1.0	0.19	1		04/13/09 22:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		04/13/09 22:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		04/13/09 22:02	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		04/13/09 22:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		04/13/09 22:02	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/13/09 22:02	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		04/13/09 22:02	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		04/13/09 22:02	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		04/13/09 22:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		04/13/09 22:02	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		04/13/09 22:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		04/13/09 22:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		04/13/09 22:02	79-34-5	
Tetrachloroethene	**0.81J**	ug/L	1.0	0.46	1		04/13/09 22:02	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/13/09 22:02	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/13/09 22:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		04/13/09 22:02	79-00-5	
Trichloroethene	**1.4**	ug/L	1.0	0.47	1		04/13/09 22:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/13/09 22:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/13/09 22:02	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		04/13/09 22:02	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		04/13/09 22:02	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		04/13/09 22:02	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/13/09 22:02	1330-20-7	
o-Xylene	**0.30J**	ug/L	1.0	0.23	1		04/13/09 22:02	95-47-6	
4-Bromofluorobenzene (S)	101	%	87-109		1		04/13/09 22:02	460-00-4	
Dibromofluoromethane (S)	106	%	85-115		1		04/13/09 22:02	1868-53-7	
1,2-Dichloroethane-d4 (S)	109	%	79-120		1		04/13/09 22:02	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		04/13/09 22:02	2037-26-5	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 04/08
Pace Project No.: 9241680

Sample: 5002-MW-03 **Lab ID: 9241680003** Collected: 04/07/09 14:54 Received: 04/07/09 17:59 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	04/09/09 10:35	04/14/09 01:52	7440-36-0	
Arsenic	ND	ug/L	5.0	2.7	1	04/09/09 10:35	04/14/09 01:52	7440-38-2	
Barium	**141**	ug/L	5.0	0.20	1	04/09/09 10:35	04/14/09 01:52	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	04/09/09 10:35	04/14/09 01:52	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	04/09/09 10:35	04/14/09 01:52	7440-43-9	
Chromium	**0.52J**	ug/L	5.0	0.40	1	04/09/09 10:35	04/14/09 01:52	7440-47-3	
Cobalt	**44.4**	ug/L	5.0	0.60	1	04/09/09 10:35	04/14/09 01:52	7440-48-4	
Copper	ND	ug/L	5.0	0.30	1	04/09/09 10:35	04/14/09 01:52	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	04/09/09 10:35	04/14/09 01:52	7439-92-1	
Nickel	**6.2**	ug/L	5.0	1.7	1	04/09/09 10:35	04/14/09 01:52	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	04/09/09 10:35	04/14/09 01:52	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	04/09/09 10:35	04/14/09 01:52	7440-22-4	
Vanadium	ND	ug/L	5.0	0.20	1	04/09/09 10:35	04/14/09 01:52	7440-62-2	
Zinc	**39.4**	ug/L	10.0	0.40	1	04/09/09 10:35	04/14/09 01:52	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020								
Thallium	ND	ug/L	0.50	0.25	1	04/15/09 15:19	04/20/09 14:23	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.091J**	ug/L	0.20	0.070	1	04/10/09 10:25	04/10/09 16:57	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		04/13/09 22:21	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		04/13/09 22:21	107-13-1	
Benzene	**0.79J**	ug/L	1.0	0.25	1		04/13/09 22:21	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		04/13/09 22:21	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/13/09 22:21	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		04/13/09 22:21	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		04/13/09 22:21	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		04/13/09 22:21	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		04/13/09 22:21	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/13/09 22:21	56-23-5	
Chlorobenzene	**6.0**	ug/L	1.0	0.23	1		04/13/09 22:21	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		04/13/09 22:21	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		04/13/09 22:21	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		04/13/09 22:21	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		04/13/09 22:21	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		04/13/09 22:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		04/13/09 22:21	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		04/13/09 22:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		04/13/09 22:21	95-50-1	
1,4-Dichlorobenzene	**4.9**	ug/L	1.0	0.33	1		04/13/09 22:21	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		04/13/09 22:21	110-57-6	
1,1-Dichloroethane	**1.0**	ug/L	1.0	0.32	1		04/13/09 22:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/13/09 22:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		04/13/09 22:21	75-35-4	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 04/08
Pace Project No.: 9241680

Sample: 5002-MW-03 **Lab ID: 9241680003** Collected: 04/07/09 14:54 Received: 04/07/09 17:59 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
cis-1,2-Dichloroethene	**2.2**	ug/L	1.0	0.19	1		04/13/09 22:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		04/13/09 22:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		04/13/09 22:21	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		04/13/09 22:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		04/13/09 22:21	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/13/09 22:21	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		04/13/09 22:21	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		04/13/09 22:21	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		04/13/09 22:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		04/13/09 22:21	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		04/13/09 22:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		04/13/09 22:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		04/13/09 22:21	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		04/13/09 22:21	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/13/09 22:21	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/13/09 22:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		04/13/09 22:21	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		04/13/09 22:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/13/09 22:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/13/09 22:21	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		04/13/09 22:21	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		04/13/09 22:21	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		04/13/09 22:21	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/13/09 22:21	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		04/13/09 22:21	95-47-6	
4-Bromofluorobenzene (S)	101	%	87-109		1		04/13/09 22:21	460-00-4	
Dibromofluoromethane (S)	106	%	85-115		1		04/13/09 22:21	1868-53-7	
1,2-Dichloroethane-d4 (S)	110	%	79-120		1		04/13/09 22:21	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		04/13/09 22:21	2037-26-5	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 04/08
Pace Project No.: 9241680

Sample: 5002-SW-02 **Lab ID: 9241680004** Collected: 04/07/09 15:40 Received: 04/07/09 17:59 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	04/09/09 10:35	04/14/09 01:56	7440-36-0	
Arsenic	ND	ug/L	5.0	2.7	1	04/09/09 10:35	04/14/09 01:56	7440-38-2	
Barium	**11.2**	ug/L	5.0	0.20	1	04/09/09 10:35	04/14/09 01:56	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	04/09/09 10:35	04/14/09 01:56	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	04/09/09 10:35	04/14/09 01:56	7440-43-9	
Chromium	ND	ug/L	5.0	0.40	1	04/09/09 10:35	04/14/09 01:56	7440-47-3	
Cobalt	**1.6J**	ug/L	5.0	0.60	1	04/09/09 10:35	04/14/09 01:56	7440-48-4	
Copper	**0.92J**	ug/L	5.0	0.30	1	04/09/09 10:35	04/14/09 01:56	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	04/09/09 10:35	04/14/09 01:56	7439-92-1	
Nickel	ND	ug/L	5.0	1.7	1	04/09/09 10:35	04/14/09 01:56	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	04/09/09 10:35	04/14/09 01:56	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	04/09/09 10:35	04/14/09 01:56	7440-22-4	
Vanadium	ND	ug/L	5.0	0.20	1	04/09/09 10:35	04/14/09 01:56	7440-62-2	
Zinc	**4.3J**	ug/L	10.0	0.40	1	04/09/09 10:35	04/14/09 01:56	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020								
Thallium	ND	ug/L	0.50	0.25	1	04/15/09 15:19	04/20/09 14:27	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.070	1	04/10/09 10:25	04/10/09 17:00	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		04/13/09 22:39	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		04/13/09 22:39	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		04/13/09 22:39	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		04/13/09 22:39	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/13/09 22:39	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		04/13/09 22:39	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		04/13/09 22:39	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		04/13/09 22:39	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		04/13/09 22:39	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/13/09 22:39	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		04/13/09 22:39	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		04/13/09 22:39	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		04/13/09 22:39	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		04/13/09 22:39	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		04/13/09 22:39	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		04/13/09 22:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		04/13/09 22:39	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		04/13/09 22:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		04/13/09 22:39	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		04/13/09 22:39	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		04/13/09 22:39	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		04/13/09 22:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/13/09 22:39	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		04/13/09 22:39	75-35-4	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 04/08
Pace Project No.: 9241680

Sample: 5002-SW-02 **Lab ID: 9241680004** Collected: 04/07/09 15:40 Received: 04/07/09 17:59 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		04/13/09 22:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		04/13/09 22:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		04/13/09 22:39	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		04/13/09 22:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		04/13/09 22:39	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/13/09 22:39	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		04/13/09 22:39	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		04/13/09 22:39	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		04/13/09 22:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		04/13/09 22:39	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		04/13/09 22:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		04/13/09 22:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		04/13/09 22:39	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		04/13/09 22:39	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/13/09 22:39	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/13/09 22:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		04/13/09 22:39	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		04/13/09 22:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/13/09 22:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/13/09 22:39	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		04/13/09 22:39	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		04/13/09 22:39	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		04/13/09 22:39	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/13/09 22:39	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		04/13/09 22:39	95-47-6	
4-Bromofluorobenzene (S)	100	%	87-109		1		04/13/09 22:39	460-00-4	
Dibromofluoromethane (S)	103	%	85-115		1		04/13/09 22:39	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	79-120		1		04/13/09 22:39	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		04/13/09 22:39	2037-26-5	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 04/08
Pace Project No.: 9241680

Sample: DUPLICATE **Lab ID: 9241680005** Collected: 04/07/09 14:54 Received: 04/07/09 17:59 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	04/09/09 10:35	04/14/09 01:59	7440-36-0	
Arsenic	ND	ug/L	5.0	2.7	1	04/09/09 10:35	04/14/09 01:59	7440-38-2	
Barium	**135**	ug/L	5.0	0.20	1	04/09/09 10:35	04/14/09 01:59	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	04/09/09 10:35	04/14/09 01:59	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	04/09/09 10:35	04/14/09 01:59	7440-43-9	
Chromium	ND	ug/L	5.0	0.40	1	04/09/09 10:35	04/14/09 01:59	7440-47-3	
Cobalt	**44.7**	ug/L	5.0	0.60	1	04/09/09 10:35	04/14/09 01:59	7440-48-4	
Copper	ND	ug/L	5.0	0.30	1	04/09/09 10:35	04/14/09 01:59	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	04/09/09 10:35	04/14/09 01:59	7439-92-1	
Nickel	**6.0**	ug/L	5.0	1.7	1	04/09/09 10:35	04/14/09 01:59	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	04/09/09 10:35	04/14/09 01:59	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	04/09/09 10:35	04/14/09 01:59	7440-22-4	
Vanadium	ND	ug/L	5.0	0.20	1	04/09/09 10:35	04/14/09 01:59	7440-62-2	
Zinc	**34.9**	ug/L	10.0	0.40	1	04/09/09 10:35	04/14/09 01:59	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020								
Thallium	ND	ug/L	0.50	0.25	1	04/15/09 15:19	04/20/09 14:31	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10J**	ug/L	0.20	0.070	1	04/10/09 10:25	04/10/09 17:02	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		04/13/09 22:58	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		04/13/09 22:58	107-13-1	
Benzene	**0.80J**	ug/L	1.0	0.25	1		04/13/09 22:58	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		04/13/09 22:58	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/13/09 22:58	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		04/13/09 22:58	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		04/13/09 22:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		04/13/09 22:58	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		04/13/09 22:58	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/13/09 22:58	56-23-5	
Chlorobenzene	**6.3**	ug/L	1.0	0.23	1		04/13/09 22:58	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		04/13/09 22:58	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		04/13/09 22:58	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		04/13/09 22:58	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		04/13/09 22:58	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		04/13/09 22:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		04/13/09 22:58	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		04/13/09 22:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		04/13/09 22:58	95-50-1	
1,4-Dichlorobenzene	**5.3**	ug/L	1.0	0.33	1		04/13/09 22:58	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		04/13/09 22:58	110-57-6	
1,1-Dichloroethane	**1.1**	ug/L	1.0	0.32	1		04/13/09 22:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/13/09 22:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		04/13/09 22:58	75-35-4	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 04/08
Pace Project No.: 9241680

Sample: DUPLICATE **Lab ID: 9241680005** Collected: 04/07/09 14:54 Received: 04/07/09 17:59 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
cis-1,2-Dichloroethene	**2.2**	ug/L	1.0	0.19	1		04/13/09 22:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		04/13/09 22:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		04/13/09 22:58	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		04/13/09 22:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		04/13/09 22:58	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/13/09 22:58	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		04/13/09 22:58	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		04/13/09 22:58	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		04/13/09 22:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		04/13/09 22:58	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		04/13/09 22:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		04/13/09 22:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		04/13/09 22:58	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		04/13/09 22:58	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/13/09 22:58	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/13/09 22:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		04/13/09 22:58	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		04/13/09 22:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/13/09 22:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/13/09 22:58	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		04/13/09 22:58	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		04/13/09 22:58	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		04/13/09 22:58	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/13/09 22:58	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		04/13/09 22:58	95-47-6	
4-Bromofluorobenzene (S)	99	%	87-109		1		04/13/09 22:58	460-00-4	
Dibromofluoromethane (S)	104	%	85-115		1		04/13/09 22:58	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	%	79-120		1		04/13/09 22:58	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		04/13/09 22:58	2037-26-5	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 04/08
Pace Project No.: 9241680

QC Batch: MPRP/4119 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 9241680001, 9241680002, 9241680003, 9241680004, 9241680005

METHOD BLANK: 260579 Matrix: Water
Associated Lab Samples: 9241680001, 9241680002, 9241680003, 9241680004, 9241680005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	04/14/09 01:08	
Arsenic	ug/L	ND	5.0	04/14/09 01:08	
Barium	ug/L	ND	5.0	04/14/09 01:08	
Beryllium	ug/L	ND	1.0	04/14/09 01:08	
Cadmium	ug/L	ND	1.0	04/14/09 01:08	
Chromium	ug/L	ND	5.0	04/14/09 01:08	
Cobalt	ug/L	4.9J	5.0	04/14/09 01:08	
Copper	ug/L	ND	5.0	04/14/09 01:08	
Lead	ug/L	ND	5.0	04/14/09 01:08	
Nickel	ug/L	ND	5.0	04/14/09 01:08	
Selenium	ug/L	ND	10.0	04/14/09 01:08	
Silver	ug/L	ND	5.0	04/14/09 01:08	
Vanadium	ug/L	ND	5.0	04/14/09 01:08	
Zinc	ug/L	ND	10.0	04/14/09 01:08	

LABORATORY CONTROL SAMPLE: 260580

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	456	91	80-120	
Arsenic	ug/L	500	441	88	80-120	
Barium	ug/L	500	456	91	80-120	
Beryllium	ug/L	500	433	87	80-120	
Cadmium	ug/L	500	441	88	80-120	
Chromium	ug/L	500	435	87	80-120	
Cobalt	ug/L	500	438	88	80-120	
Copper	ug/L	500	461	92	80-120	
Lead	ug/L	500	442	88	80-120	
Nickel	ug/L	500	434	87	80-120	
Selenium	ug/L	500	434	87	80-120	
Silver	ug/L	250	233	93	80-120	
Vanadium	ug/L	500	445	89	80-120	
Zinc	ug/L	500	431	86	80-120	

MATRIX SPIKE SAMPLE: 260581

Parameter	Units	9241509005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	451	90	75-125	
Arsenic	ug/L	ND	500	438	88	75-125	
Barium	ug/L	22.0	500	470	90	75-125	
Beryllium	ug/L	ND	500	431	86	75-125	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 04/08
Pace Project No.: 9241680

MATRIX SPIKE SAMPLE: 260581

Parameter	Units	9241509005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cadmium	ug/L	ND	500	437	87	75-125	
Chromium	ug/L	1.2J	500	434	87	75-125	
Cobalt	ug/L	2.9J	500	437	87	75-125	
Copper	ug/L	0.52J	500	457	91	75-125	
Lead	ug/L	ND	500	433	86	75-125	
Nickel	ug/L	2.4J	500	429	85	75-125	
Selenium	ug/L	ND	500	435	87	75-125	
Silver	ug/L	ND	250	231	92	75-125	
Vanadium	ug/L	0.39J	500	444	89	75-125	
Zinc	ug/L	3.2J	500	430	85	75-125	

SAMPLE DUPLICATE: 260582

Parameter	Units	9241509006 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND		25	
Arsenic	ug/L	ND	ND		25	
Barium	ug/L	12.6	12.3	2	25	
Beryllium	ug/L	ND	ND		25	
Cadmium	ug/L	ND	ND		25	
Chromium	ug/L	ND	ND		25	
Cobalt	ug/L	2.3J	2.5J		25	
Copper	ug/L	ND	ND		25	
Lead	ug/L	ND	ND		25	
Nickel	ug/L	1.8J	ND		25	
Selenium	ug/L	ND	ND		25	
Silver	ug/L	ND	ND		25	
Vanadium	ug/L	0.23J	ND		25	
Zinc	ug/L	1.4J	ND		25	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 04/08
Pace Project No.: 9241680

QC Batch: ICPM/15322 Analysis Method: EPA 6020
QC Batch Method: EPA 6020 Analysis Description: 6020 MET
Associated Lab Samples: 9241680001, 9241680002, 9241680003, 9241680004, 9241680005

METHOD BLANK: 605970 Matrix: Water
Associated Lab Samples: 9241680001, 9241680002, 9241680003, 9241680004, 9241680005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Thallium	ug/L	ND	0.50	04/20/09 13:03	

LABORATORY CONTROL SAMPLE: 605971

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Thallium	ug/L	80	83.7	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 607330 607331

Parameter	Units	20681752 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	93.8	98.4	117	123	70-130	5	20	

MATRIX SPIKE SAMPLE: 607332

Parameter	Units	9241680001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Thallium	ug/L	ND	80	76.4	95	70-130	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 04/08
Pace Project No.: 9241680

QC Batch: MERP/2070 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 9241680001, 9241680002, 9241680003, 9241680004, 9241680005

METHOD BLANK: 261637 Matrix: Water
Associated Lab Samples: 9241680001, 9241680002, 9241680003, 9241680004, 9241680005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/10/09 16:10	

LABORATORY CONTROL SAMPLE: 261638

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.4	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 261639 261640

Parameter	Units	9241729004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.3	2.3	91	93	75-125	2	25	

SAMPLE DUPLICATE: 261641

Parameter	Units	9241509001 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury	ug/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 04/08
Pace Project No.: 9241680

QC Batch: MSV/6665 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 9241680001, 9241680002, 9241680003, 9241680004, 9241680005

METHOD BLANK: 262458 Matrix: Water
Associated Lab Samples: 9241680001, 9241680002, 9241680003, 9241680004, 9241680005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	04/13/09 19:11	
1,1,1-Trichloroethane	ug/L	ND	1.0	04/13/09 19:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/13/09 19:11	
1,1,2-Trichloroethane	ug/L	ND	1.0	04/13/09 19:11	
1,1-Dichloroethane	ug/L	ND	1.0	04/13/09 19:11	
1,1-Dichloroethene	ug/L	ND	1.0	04/13/09 19:11	
1,2,3-Trichloropropane	ug/L	ND	1.0	04/13/09 19:11	
1,2-Dibromo-3-chloropropane	ug/L	ND	3.0	04/13/09 19:11	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	04/13/09 19:11	
1,2-Dichlorobenzene	ug/L	ND	1.0	04/13/09 19:11	
1,2-Dichloroethane	ug/L	ND	1.0	04/13/09 19:11	
1,2-Dichloropropane	ug/L	ND	1.0	04/13/09 19:11	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/13/09 19:11	
2-Butanone (MEK)	ug/L	ND	5.0	04/13/09 19:11	
2-Hexanone	ug/L	ND	5.0	04/13/09 19:11	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	04/13/09 19:11	
Acetone	ug/L	ND	25.0	04/13/09 19:11	
Acrylonitrile	ug/L	ND	10.0	04/13/09 19:11	
Benzene	ug/L	ND	1.0	04/13/09 19:11	
Bromochloromethane	ug/L	ND	1.0	04/13/09 19:11	
Bromodichloromethane	ug/L	ND	1.0	04/13/09 19:11	
Bromoform	ug/L	ND	1.0	04/13/09 19:11	
Bromomethane	ug/L	ND	5.0	04/13/09 19:11	
Carbon disulfide	ug/L	ND	2.0	04/13/09 19:11	
Carbon tetrachloride	ug/L	ND	1.0	04/13/09 19:11	
Chlorobenzene	ug/L	ND	1.0	04/13/09 19:11	
Chloroethane	ug/L	ND	1.0	04/13/09 19:11	
Chloroform	ug/L	ND	1.0	04/13/09 19:11	
Chloromethane	ug/L	ND	1.0	04/13/09 19:11	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/13/09 19:11	
cis-1,3-Dichloropropene	ug/L	ND	1.0	04/13/09 19:11	
Dibromochloromethane	ug/L	ND	1.0	04/13/09 19:11	
Dibromomethane	ug/L	ND	1.0	04/13/09 19:11	
Ethylbenzene	ug/L	ND	1.0	04/13/09 19:11	
Iodomethane	ug/L	ND	5.0	04/13/09 19:11	
m&p-Xylene	ug/L	ND	2.0	04/13/09 19:11	
Methylene Chloride	ug/L	ND	2.0	04/13/09 19:11	
o-Xylene	ug/L	ND	1.0	04/13/09 19:11	
Styrene	ug/L	ND	1.0	04/13/09 19:11	
Tetrachloroethene	ug/L	ND	1.0	04/13/09 19:11	
Toluene	ug/L	ND	1.0	04/13/09 19:11	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/13/09 19:11	
trans-1,3-Dichloropropene	ug/L	ND	1.0	04/13/09 19:11	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 04/08
Pace Project No.: 9241680

METHOD BLANK: 262458 Matrix: Water

Associated Lab Samples: 9241680001, 9241680002, 9241680003, 9241680004, 9241680005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,4-Dichloro-2-butene	ug/L	ND	1.0	04/13/09 19:11	
Trichloroethene	ug/L	ND	1.0	04/13/09 19:11	
Trichlorofluoromethane	ug/L	ND	1.0	04/13/09 19:11	
Vinyl acetate	ug/L	ND	2.0	04/13/09 19:11	
Vinyl chloride	ug/L	ND	1.0	04/13/09 19:11	
Xylene (Total)	ug/L	ND	2.0	04/13/09 19:11	
1,2-Dichloroethane-d4 (S)	%	100	79-120	04/13/09 19:11	
4-Bromofluorobenzene (S)	%	100	87-109	04/13/09 19:11	
Dibromofluoromethane (S)	%	100	85-115	04/13/09 19:11	
Toluene-d8 (S)	%	98	70-120	04/13/09 19:11	

LABORATORY CONTROL SAMPLE: 262459

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.8	100	83-125	
1,1,1-Trichloroethane	ug/L	50	48.7	97	80-129	
1,1,2,2-Tetrachloroethane	ug/L	50	47.3	95	73-127	
1,1,2-Trichloroethane	ug/L	50	49.3	99	77-123	
1,1-Dichloroethane	ug/L	50	50.8	102	76-129	
1,1-Dichloroethene	ug/L	50	46.5	93	78-146	
1,2,3-Trichloropropane	ug/L	50	46.1	92	72-125	
1,2-Dibromo-3-chloropropane	ug/L	50	48.5	97	65-128	
1,2-Dibromoethane (EDB)	ug/L	50	52.2	104	81-125	
1,2-Dichlorobenzene	ug/L	50	50.3	101	82-126	
1,2-Dichloroethane	ug/L	50	45.8	92	72-126	
1,2-Dichloropropane	ug/L	50	50.0	100	80-127	
1,4-Dichlorobenzene	ug/L	50	48.8	98	79-125	
2-Butanone (MEK)	ug/L	100	93.6	94	50-134	
2-Hexanone	ug/L	100	91.9	92	58-138	
4-Methyl-2-pentanone (MIBK)	ug/L	100	99.3	99	70-131	
Acetone	ug/L	100	95.7	96	50-146	
Acrylonitrile	ug/L	250	254	101	66-124	
Benzene	ug/L	50	51.8	104	78-128	
Bromochloromethane	ug/L	50	50.6	101	73-124	
Bromodichloromethane	ug/L	50	47.2	94	81-125	
Bromoform	ug/L	50	53.2	106	71-125	
Bromomethane	ug/L	50	62.2	124	50-150	
Carbon disulfide	ug/L	50	45.9	92	54-150	
Carbon tetrachloride	ug/L	50	48.9	98	81-137	
Chlorobenzene	ug/L	50	50.2	100	82-126	
Chloroethane	ug/L	50	48.1	96	69-140	
Chloroform	ug/L	50	48.4	97	77-129	
Chloromethane	ug/L	50	43.4	87	54-139	
cis-1,2-Dichloroethene	ug/L	50	51.6	103	76-133	
cis-1,3-Dichloropropene	ug/L	50	53.7	107	76-127	

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(704)875-9092

QUALITY CONTROL DATA

Project: JACKSON CO LF 04/08
Pace Project No.: 9241680

LABORATORY CONTROL SAMPLE: 262459

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	50	50.0	100	77-125	
Dibromomethane	ug/L	50	51.6	103	77-125	
Ethylbenzene	ug/L	50	51.9	104	80-127	
Iodomethane	ug/L	100	107	107	65-172	
m&p-Xylene	ug/L	100	105	105	82-127	
Methylene Chloride	ug/L	50	49.1	98	67-133	
o-Xylene	ug/L	50	52.8	106	83-124	
Styrene	ug/L	50	56.8	114	80-130	
Tetrachloroethene	ug/L	50	52.3	105	78-128	
Toluene	ug/L	50	48.9	98	76-126	
trans-1,2-Dichloroethene	ug/L	50	49.5	99	78-134	
trans-1,3-Dichloropropene	ug/L	50	51.6	103	75-125	
trans-1,4-Dichloro-2-butene	ug/L	50	30.2	60	51-140	
Trichloroethene	ug/L	50	51.8	104	79-127	
Trichlorofluoromethane	ug/L	50	46.9	94	76-148	
Vinyl acetate	ug/L	100	103	103	50-150	
Vinyl chloride	ug/L	50	52.3	105	67-143	
Xylene (Total)	ug/L	150	158	105	83-125	
1,2-Dichloroethane-d4 (S)	%			94	79-120	
4-Bromofluorobenzene (S)	%			103	87-109	
Dibromofluoromethane (S)	%			98	85-115	
Toluene-d8 (S)	%			99	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 262460 262461

Parameter	Units	9241735001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	63.4	58.9	127	117	60-150	7	30	
Benzene	ug/L	1.5	50	50	58.4	56.6	114	110	74-136	3	30	
Chlorobenzene	ug/L	ND	50	50	60.9	57.0	120	112	79-135	7	30	
Toluene	ug/L	ND	50	50	57.6	55.0	115	110	73-131	5	30	
Trichloroethene	ug/L	ND	50	50	60.2	56.6	120	112	73-131	6	30	
1,2-Dichloroethane-d4 (S)	%						107	107	79-120			
4-Bromofluorobenzene (S)	%						102	101	87-109			
Dibromofluoromethane (S)	%						103	101	85-115			
Toluene-d8 (S)	%						96	97	70-120			

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QUALIFIERS

Project: JACKSON CO LF 04/08
Pace Project No.: 9241680

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.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

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

LABORATORIES

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

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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

Section A Required Client Information:

Company:	Altamont Environmental
Address:	50 College Street
	Asheville, NC 28801
Email To:	jlenk@altamontenvironmental.com
Phone: 828-281-3350	Fax: 828-281-3351
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Joel Lenk
Copy To:	
Purchase Order No.:	
Project Name:	Jackson Co. Landfill
Project Number:	2040.12

Section C Invoice Information:

Attention:	Judith Robertson
Company Name:	Altamont Environmental
Address:	50 College Street, Asheville, NC
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

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

Site Location STATE: NC

Section D Required Client Information

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

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

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): Appendix I VOCs (8260)	Appendix I Metals (6010/7	VOCs Method 524.2	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 924168 0
1	5002-MW-05	WT	G			4/7/09	1107	14	4		~~X~~	X	X					X	X			9241680001
2	5002-MW-06	WT	G			4/7/09	1255	14	4		~~X~~	X	X					X	X			9241680002
3	5002-MW-03	WT	G			4/7/09	1454	14	4			X	X					X	X			9241680003
4	5002-SW-02	WT	G			4/7/09	1540	8	4			X	X					X	X			9241680004
5	DUPLICATE	WT	G			4/7/09	1454	14	4			X	X					X	X			9241680005
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Appendix I VOCs low level	Q. McCutchen / Altamont	4/7/09	1754	[signature]	4/7/09	17:54	5.8	Y	N	Y
Please include MDL and lab qualifiers with all sample results										

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER:	DATE Signed (MM/DD/YY):				

*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.

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April 22, 2009

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

RE: Project: Jackson Co LF 2040.12
Pace Project No.: 9241775

Dear Mr. Lenk:
Enclosed are the analytical results for sample(s) received by the laboratory on April 08, 2009. 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: Jackson Co LF 2040.12
Pace Project No.: 9241775

Minnesota Certification IDs

Pennsylvania Certification #: 68-00563
Alaska Certification #: UST-078
Washington Certification #: C754
Wisconsin Certification #: 999407970
Oregon Certification #: MN200001
North Dakota Certification #: R-036
North Carolina Certification #: 530
New York Certification #: 11647
New Jersey Certification #: MN-002
Montana Certification #: MT CERT0092
Minnesota Certification #: 027-053-137
Maine Certification #: 2007029
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Kansas Certification #: E-10167
Iowa Certification #: 368
Illinois Certification #: 200011
Florida/NELAP Certification #: E87605
California Certification #: 01155CA
Arizona Certification #: AZ-0014
Tennessee Certification #: 02818

Charlotte Certification IDs

South Carolina Drinking Water Cert. #: 990060003
Tennessee Certification #: 04010
Virginia Certification #: 00213
West Virginia Certification #: 357
South Carolina Certification #: 990060001
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784

Asheville Certification IDs

West Virginia Certification #: 356
Virginia Certification #: 00072
North Carolina Drinking Water Certification #: 37712
North Carolina Bioassay Certification #: 9
Tennessee Certification #: 2980
South Carolina Certification #: 99030001
South Carolina Bioassay Certification #: 99030002
Pennsylvania Certification #: 68-03578
North Carolina Wastewater Certification #: 40
Connecticut Certification #: PH-0106
Florida/NELAP Certification #: E87648
Louisiana/LELAP Certification #: 03095
Massachusetts Certification #: M-NC030
New Jersey Certification #: NC011

Eden Certification IDs

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

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SAMPLE SUMMARY

Project: Jackson Co LF 2040.12
Pace Project No.: 9241775

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9241775001	**5002-MW-02**	Water	04/08/09 10:40	04/08/09 17:02
9241775002	**5002-MW-01**	Water	04/08/09 12:10	04/08/09 17:02
9241775003	**5002-MW-04**	Water	04/08/09 14:35	04/08/09 17:02
9241775004	**5002-SW-01**	Water	04/08/09 14:00	04/08/09 17:02
9241775005	**Trip Blank**	Water	04/08/09 00:00	04/08/09 17:02

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SAMPLE ANALYTE COUNT

Project: Jackson Co LF 2040.12
Pace Project No.: 9241775

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9241775001	5002-MW-02	EPA 6010	EWS	14	PASI-A
		EPA 6020	RJS	1	PASI-M
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	53	PASI-C
9241775002	5002-MW-01	EPA 6010	EWS	14	PASI-A
		EPA 6020	RJS	1	PASI-M
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	53	PASI-C
9241775003	5002-MW-04	EPA 6010	EWS	14	PASI-A
		EPA 6020	RJS	1	PASI-M
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	53	PASI-C
9241775004	5002-SW-01	EPA 6010	EWS	14	PASI-A
		EPA 6020	RJS	1	PASI-M
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	53	PASI-C

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ANALYTICAL RESULTS

Project: Jackson Co LF 2040.12
Pace Project No.: 9241775

Sample: 5002-MW-02 **Lab ID: 9241775001** Collected: 04/08/09 10:40 Received: 04/08/09 17:02 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	04/10/09 13:00	04/14/09 03:02	7440-36-0	
Arsenic	ND	ug/L	5.0	2.7	1	04/10/09 13:00	04/14/09 03:02	7440-38-2	
Barium	**31.8**	ug/L	5.0	0.20	1	04/10/09 13:00	04/14/09 03:02	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	04/10/09 13:00	04/14/09 03:02	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	04/10/09 13:00	04/14/09 03:02	7440-43-9	
Chromium	ND	ug/L	5.0	0.40	1	04/10/09 13:00	04/14/09 03:02	7440-47-3	
Cobalt	**9.8**	ug/L	5.0	0.60	1	04/10/09 13:00	04/14/09 03:02	7440-48-4	
Copper	ND	ug/L	5.0	0.30	1	04/10/09 13:00	04/14/09 03:02	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	04/10/09 13:00	04/14/09 03:02	7439-92-1	
Nickel	**3.3J**	ug/L	5.0	1.7	1	04/10/09 13:00	04/14/09 03:02	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	04/10/09 13:00	04/14/09 03:02	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	04/10/09 13:00	04/14/09 03:02	7440-22-4	
Vanadium	ND	ug/L	5.0	0.20	1	04/10/09 13:00	04/14/09 03:02	7440-62-2	
Zinc	**2.1J**	ug/L	10.0	0.40	1	04/10/09 13:00	04/14/09 03:02	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020								
Thallium	ND	ug/L	0.50	0.25	1	04/16/09 19:56	04/20/09 15:53	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.070	1	04/10/09 10:25	04/10/09 17:12	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		04/16/09 18:39	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		04/16/09 18:39	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		04/16/09 18:39	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		04/16/09 18:39	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/16/09 18:39	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		04/16/09 18:39	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		04/16/09 18:39	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		04/16/09 18:39	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		04/16/09 18:39	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/16/09 18:39	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		04/16/09 18:39	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		04/16/09 18:39	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		04/16/09 18:39	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		04/16/09 18:39	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		04/16/09 18:39	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		04/16/09 18:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		04/16/09 18:39	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		04/16/09 18:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		04/16/09 18:39	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		04/16/09 18:39	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		04/16/09 18:39	110-57-6	
1,1-Dichloroethane	**0.67J**	ug/L	1.0	0.32	1		04/16/09 18:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/16/09 18:39	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		04/16/09 18:39	75-35-4	

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ANALYTICAL RESULTS

Project: Jackson Co LF 2040.12
Pace Project No.: 9241775

Sample: 5002-MW-02 **Lab ID: 9241775001** Collected: 04/08/09 10:40 Received: 04/08/09 17:02 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
cis-1,2-Dichloroethene	**0.56J**	ug/L	1.0	0.19	1		04/16/09 18:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		04/16/09 18:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		04/16/09 18:39	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		04/16/09 18:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		04/16/09 18:39	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/16/09 18:39	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		04/16/09 18:39	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		04/16/09 18:39	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		04/16/09 18:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		04/16/09 18:39	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		04/16/09 18:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		04/16/09 18:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		04/16/09 18:39	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		04/16/09 18:39	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/16/09 18:39	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/16/09 18:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		04/16/09 18:39	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		04/16/09 18:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/16/09 18:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/16/09 18:39	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		04/16/09 18:39	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		04/16/09 18:39	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		04/16/09 18:39	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/16/09 18:39	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		04/16/09 18:39	95-47-6	
4-Bromofluorobenzene (S)	100	%	87-109		1		04/16/09 18:39	460-00-4	
Dibromofluoromethane (S)	96	%	85-115		1		04/16/09 18:39	1868-53-7	
1,2-Dichloroethane-d4 (S)	94	%	79-120		1		04/16/09 18:39	17060-07-0	
Toluene-d8 (S)	98	%	70-120		1		04/16/09 18:39	2037-26-5	

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ANALYTICAL RESULTS

Project: Jackson Co LF 2040.12
Pace Project No.: 9241775

Sample: 5002-MW-01 **Lab ID: 9241775002** Collected: 04/08/09 12:10 Received: 04/08/09 17:02 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	04/10/09 13:00	04/14/09 03:06	7440-36-0	
Arsenic	ND	ug/L	5.0	2.7	1	04/10/09 13:00	04/14/09 03:06	7440-38-2	
Barium	**83.4**	ug/L	5.0	0.20	1	04/10/09 13:00	04/14/09 03:06	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	04/10/09 13:00	04/14/09 03:06	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	04/10/09 13:00	04/14/09 03:06	7440-43-9	
Chromium	ND	ug/L	5.0	0.40	1	04/10/09 13:00	04/14/09 03:06	7440-47-3	
Cobalt	**27.4**	ug/L	5.0	0.60	1	04/10/09 13:00	04/14/09 03:06	7440-48-4	
Copper	ND	ug/L	5.0	0.30	1	04/10/09 13:00	04/14/09 03:06	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	04/10/09 13:00	04/14/09 03:06	7439-92-1	
Nickel	**4.4J**	ug/L	5.0	1.7	1	04/10/09 13:00	04/14/09 03:06	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	04/10/09 13:00	04/14/09 03:06	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	04/10/09 13:00	04/14/09 03:06	7440-22-4	
Vanadium	ND	ug/L	5.0	0.20	1	04/10/09 13:00	04/14/09 03:06	7440-62-2	
Zinc	**1.4J**	ug/L	10.0	0.40	1	04/10/09 13:00	04/14/09 03:06	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020								
Thallium	**0.26J**	ug/L	0.50	0.25	1	04/16/09 19:56	04/20/09 15:57	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.070	1	04/10/09 10:25	04/10/09 17:15	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		04/16/09 19:02	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		04/16/09 19:02	107-13-1	
Benzene	**5.8**	ug/L	1.0	0.25	1		04/16/09 19:02	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		04/16/09 19:02	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/16/09 19:02	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		04/16/09 19:02	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		04/16/09 19:02	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		04/16/09 19:02	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		04/16/09 19:02	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/16/09 19:02	56-23-5	
Chlorobenzene	**3.1**	ug/L	1.0	0.23	1		04/16/09 19:02	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		04/16/09 19:02	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		04/16/09 19:02	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		04/16/09 19:02	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		04/16/09 19:02	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		04/16/09 19:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		04/16/09 19:02	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		04/16/09 19:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		04/16/09 19:02	95-50-1	
1,4-Dichlorobenzene	**5.6**	ug/L	1.0	0.33	1		04/16/09 19:02	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		04/16/09 19:02	110-57-6	
1,1-Dichloroethane	**6.5**	ug/L	1.0	0.32	1		04/16/09 19:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/16/09 19:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		04/16/09 19:02	75-35-4	

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ANALYTICAL RESULTS

Project: Jackson Co LF 2040.12
Pace Project No.: 9241775

Sample: 5002-MW-01 **Lab ID: 9241775002** Collected: 04/08/09 12:10 Received: 04/08/09 17:02 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
cis-1,2-Dichloroethene	**10**	ug/L	1.0	0.19	1		04/16/09 19:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		04/16/09 19:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		04/16/09 19:02	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		04/16/09 19:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		04/16/09 19:02	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/16/09 19:02	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		04/16/09 19:02	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		04/16/09 19:02	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		04/16/09 19:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		04/16/09 19:02	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		04/16/09 19:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		04/16/09 19:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		04/16/09 19:02	79-34-5	
Tetrachloroethene	**0.49J**	ug/L	1.0	0.46	1		04/16/09 19:02	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/16/09 19:02	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/16/09 19:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		04/16/09 19:02	79-00-5	
Trichloroethene	**1.2**	ug/L	1.0	0.47	1		04/16/09 19:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/16/09 19:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/16/09 19:02	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		04/16/09 19:02	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		04/16/09 19:02	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		04/16/09 19:02	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/16/09 19:02	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		04/16/09 19:02	95-47-6	
4-Bromofluorobenzene (S)	101	%	87-109		1		04/16/09 19:02	460-00-4	
Dibromofluoromethane (S)	96	%	85-115		1		04/16/09 19:02	1868-53-7	
1,2-Dichloroethane-d4 (S)	95	%	79-120		1		04/16/09 19:02	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		04/16/09 19:02	2037-26-5	

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ANALYTICAL RESULTS

Project: Jackson Co LF 2040.12
Pace Project No.: 9241775

Sample: 5002-MW-04 **Lab ID: 9241775003** Collected: 04/08/09 14:35 Received: 04/08/09 17:02 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	04/10/09 13:00	04/14/09 09:40	7440-36-0	
Arsenic	**3.7J**	ug/L	5.0	2.7	1	04/10/09 13:00	04/14/09 09:40	7440-38-2	
Barium	**108**	ug/L	5.0	0.20	1	04/10/09 13:00	04/14/09 09:40	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	04/10/09 13:00	04/14/09 09:40	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	04/10/09 13:00	04/14/09 09:40	7440-43-9	
Chromium	ND	ug/L	5.0	0.40	1	04/10/09 13:00	04/14/09 09:40	7440-47-3	
Cobalt	**3.6J**	ug/L	5.0	0.60	1	04/10/09 13:00	04/14/09 09:40	7440-48-4	
Copper	ND	ug/L	5.0	0.30	1	04/10/09 13:00	04/14/09 09:40	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	04/10/09 13:00	04/14/09 09:40	7439-92-1	
Nickel	**1.7J**	ug/L	5.0	1.7	1	04/10/09 13:00	04/14/09 09:40	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	04/10/09 13:00	04/14/09 09:40	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	04/10/09 13:00	04/14/09 09:40	7440-22-4	
Vanadium	ND	ug/L	5.0	0.20	1	04/10/09 13:00	04/14/09 09:40	7440-62-2	
Zinc	ND	ug/L	10.0	0.40	1	04/10/09 13:00	04/14/09 09:40	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020								
Thallium	ND	ug/L	0.50	0.25	1	04/16/09 19:56	04/20/09 16:01	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.25**	ug/L	0.20	0.070	1	04/10/09 10:25	04/10/09 17:22	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		04/16/09 19:26	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		04/16/09 19:26	107-13-1	
Benzene	**1.2**	ug/L	1.0	0.25	1		04/16/09 19:26	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		04/16/09 19:26	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/16/09 19:26	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		04/16/09 19:26	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		04/16/09 19:26	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		04/16/09 19:26	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		04/16/09 19:26	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/16/09 19:26	56-23-5	
Chlorobenzene	**5.5**	ug/L	1.0	0.23	1		04/16/09 19:26	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		04/16/09 19:26	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		04/16/09 19:26	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		04/16/09 19:26	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		04/16/09 19:26	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		04/16/09 19:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		04/16/09 19:26	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		04/16/09 19:26	74-95-3	
1,2-Dichlorobenzene	**0.40J**	ug/L	1.0	0.30	1		04/16/09 19:26	95-50-1	
1,4-Dichlorobenzene	**7.1**	ug/L	1.0	0.33	1		04/16/09 19:26	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		04/16/09 19:26	110-57-6	
1,1-Dichloroethane	**0.44J**	ug/L	1.0	0.32	1		04/16/09 19:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/16/09 19:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		04/16/09 19:26	75-35-4	

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ANALYTICAL RESULTS

Project: Jackson Co LF 2040.12
Pace Project No.: 9241775

Sample: 5002-MW-04 **Lab ID: 9241775003** Collected: 04/08/09 14:35 Received: 04/08/09 17:02 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
cis-1,2-Dichloroethene	**9.6**	ug/L	1.0	0.19	1		04/16/09 19:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		04/16/09 19:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		04/16/09 19:26	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		04/16/09 19:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		04/16/09 19:26	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/16/09 19:26	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		04/16/09 19:26	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		04/16/09 19:26	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		04/16/09 19:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		04/16/09 19:26	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		04/16/09 19:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		04/16/09 19:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		04/16/09 19:26	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		04/16/09 19:26	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/16/09 19:26	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/16/09 19:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		04/16/09 19:26	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		04/16/09 19:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/16/09 19:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/16/09 19:26	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		04/16/09 19:26	108-05-4	
Vinyl chloride	**0.78J**	ug/L	1.0	0.62	1		04/16/09 19:26	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		04/16/09 19:26	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/16/09 19:26	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		04/16/09 19:26	95-47-6	
4-Bromofluorobenzene (S)	100	%	87-109		1		04/16/09 19:26	460-00-4	
Dibromofluoromethane (S)	95	%	85-115		1		04/16/09 19:26	1868-53-7	
1,2-Dichloroethane-d4 (S)	96	%	79-120		1		04/16/09 19:26	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		04/16/09 19:26	2037-26-5	

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ANALYTICAL RESULTS

Project: Jackson Co LF 2040.12
Pace Project No.: 9241775

Sample: 5002-SW-01 **Lab ID: 9241775004** Collected: 04/08/09 14:00 Received: 04/08/09 17:02 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	04/10/09 13:00	04/14/09 09:43	7440-36-0	
Arsenic	ND	ug/L	5.0	2.7	1	04/10/09 13:00	04/14/09 09:43	7440-38-2	
Barium	**11.4**	ug/L	5.0	0.20	1	04/10/09 13:00	04/14/09 09:43	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	04/10/09 13:00	04/14/09 09:43	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	04/10/09 13:00	04/14/09 09:43	7440-43-9	
Chromium	ND	ug/L	5.0	0.40	1	04/10/09 13:00	04/14/09 09:43	7440-47-3	
Cobalt	**4.3J**	ug/L	5.0	0.60	1	04/10/09 13:00	04/14/09 09:43	7440-48-4	
Copper	**0.99J**	ug/L	5.0	0.30	1	04/10/09 13:00	04/14/09 09:43	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	04/10/09 13:00	04/14/09 09:43	7439-92-1	
Nickel	ND	ug/L	5.0	1.7	1	04/10/09 13:00	04/14/09 09:43	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	04/10/09 13:00	04/14/09 09:43	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	04/10/09 13:00	04/14/09 09:43	7440-22-4	
Vanadium	ND	ug/L	5.0	0.20	1	04/10/09 13:00	04/14/09 09:43	7440-62-2	
Zinc	**0.58J**	ug/L	10.0	0.40	1	04/10/09 13:00	04/14/09 09:43	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020								
Thallium	ND	ug/L	0.50	0.25	1	04/16/09 19:56	04/20/09 16:05	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.070	1	04/10/09 10:25	04/10/09 17:25	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		04/16/09 19:50	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		04/16/09 19:50	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		04/16/09 19:50	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		04/16/09 19:50	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/16/09 19:50	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		04/16/09 19:50	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		04/16/09 19:50	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		04/16/09 19:50	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		04/16/09 19:50	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/16/09 19:50	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		04/16/09 19:50	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		04/16/09 19:50	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		04/16/09 19:50	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		04/16/09 19:50	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		04/16/09 19:50	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		04/16/09 19:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		04/16/09 19:50	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		04/16/09 19:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		04/16/09 19:50	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		04/16/09 19:50	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		04/16/09 19:50	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		04/16/09 19:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/16/09 19:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		04/16/09 19:50	75-35-4	

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ANALYTICAL RESULTS

Project: Jackson Co LF 2040.12
Pace Project No.: 9241775

Sample: 5002-SW-01 **Lab ID: 9241775004** Collected: 04/08/09 14:00 Received: 04/08/09 17:02 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		04/16/09 19:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		04/16/09 19:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		04/16/09 19:50	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		04/16/09 19:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		04/16/09 19:50	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/16/09 19:50	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		04/16/09 19:50	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		04/16/09 19:50	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		04/16/09 19:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		04/16/09 19:50	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		04/16/09 19:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		04/16/09 19:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		04/16/09 19:50	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		04/16/09 19:50	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/16/09 19:50	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/16/09 19:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		04/16/09 19:50	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		04/16/09 19:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/16/09 19:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/16/09 19:50	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		04/16/09 19:50	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		04/16/09 19:50	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		04/16/09 19:50	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/16/09 19:50	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		04/16/09 19:50	95-47-6	
4-Bromofluorobenzene (S)	101	%	87-109		1		04/16/09 19:50	460-00-4	
Dibromofluoromethane (S)	95	%	85-115		1		04/16/09 19:50	1868-53-7	
1,2-Dichloroethane-d4 (S)	96	%	79-120		1		04/16/09 19:50	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		04/16/09 19:50	2037-26-5	

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ANALYTICAL RESULTS

Project: Jackson Co LF 2040.12
Pace Project No.: 9241775

Sample: Trip Blank **Lab ID: 9241775005** Collected: 04/08/09 00:00 Received: 04/08/09 17:02 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		04/16/09 17:28	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		04/16/09 17:28	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		04/16/09 17:28	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		04/16/09 17:28	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/16/09 17:28	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		04/16/09 17:28	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		04/16/09 17:28	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		04/16/09 17:28	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		04/16/09 17:28	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/16/09 17:28	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		04/16/09 17:28	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		04/16/09 17:28	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		04/16/09 17:28	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		04/16/09 17:28	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		04/16/09 17:28	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		04/16/09 17:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		04/16/09 17:28	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		04/16/09 17:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		04/16/09 17:28	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		04/16/09 17:28	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		04/16/09 17:28	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		04/16/09 17:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/16/09 17:28	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		04/16/09 17:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		04/16/09 17:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		04/16/09 17:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		04/16/09 17:28	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		04/16/09 17:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		04/16/09 17:28	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/16/09 17:28	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		04/16/09 17:28	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		04/16/09 17:28	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		04/16/09 17:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		04/16/09 17:28	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		04/16/09 17:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		04/16/09 17:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		04/16/09 17:28	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		04/16/09 17:28	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/16/09 17:28	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/16/09 17:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		04/16/09 17:28	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		04/16/09 17:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/16/09 17:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/16/09 17:28	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		04/16/09 17:28	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		04/16/09 17:28	75-01-4	

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ANALYTICAL RESULTS

Project: Jackson Co LF 2040.12
Pace Project No.: 9241775

Sample: Trip Blank **Lab ID: 9241775005** Collected: 04/08/09 00:00 Received: 04/08/09 17:02 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
	Analytical Method: EPA 8260								
Xylene (Total)	ND	ug/L	2.0	0.66	1		04/16/09 17:28	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/16/09 17:28	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		04/16/09 17:28	95-47-6	
4-Bromofluorobenzene (S)	101	%	87-109		1		04/16/09 17:28	460-00-4	
Dibromofluoromethane (S)	96	%	85-115		1		04/16/09 17:28	1868-53-7	
1,2-Dichloroethane-d4 (S)	97	%	79-120		1		04/16/09 17:28	17060-07-0	
Toluene-d8 (S)	98	%	70-120		1		04/16/09 17:28	2037-26-5	

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QUALITY CONTROL DATA

Project: Jackson Co LF 2040.12
Pace Project No.: 9241775

QC Batch: ICPM/15339 Analysis Method: EPA 6020
QC Batch Method: EPA 6020 Analysis Description: 6020 MET
Associated Lab Samples: 9241775001, 9241775002, 9241775003, 9241775004

METHOD BLANK: 606422 Matrix: Water
Associated Lab Samples: 9241775001, 9241775002, 9241775003, 9241775004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Thallium	ug/L	ND	0.50	04/20/09 10:29	

LABORATORY CONTROL SAMPLE: 606423

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Thallium	ug/L	80	78.7	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 606424 606425

Parameter	Units	20682046 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	78.2	78.2	98	98	70-130	.08	20	

MATRIX SPIKE SAMPLE: 606426

Parameter	Units	6056772001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Thallium	ug/L	ND	80	75.9	95	70-130	

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QUALITY CONTROL DATA

Project: Jackson Co LF 2040.12
Pace Project No.: 9241775

QC Batch: MSV/6705 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 9241775001, 9241775002, 9241775003, 9241775004, 9241775005

METHOD BLANK: 264482 Matrix: Water
Associated Lab Samples: 9241775001, 9241775002, 9241775003, 9241775004, 9241775005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	04/16/09 17:05	
1,1,1-Trichloroethane	ug/L	ND	1.0	04/16/09 17:05	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/16/09 17:05	
1,1,2-Trichloroethane	ug/L	ND	1.0	04/16/09 17:05	
1,1-Dichloroethane	ug/L	ND	1.0	04/16/09 17:05	
1,1-Dichloroethene	ug/L	ND	1.0	04/16/09 17:05	
1,2,3-Trichloropropane	ug/L	ND	1.0	04/16/09 17:05	
1,2-Dibromo-3-chloropropane	ug/L	ND	3.0	04/16/09 17:05	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	04/16/09 17:05	
1,2-Dichlorobenzene	ug/L	ND	1.0	04/16/09 17:05	
1,2-Dichloroethane	ug/L	ND	1.0	04/16/09 17:05	
1,2-Dichloropropane	ug/L	ND	1.0	04/16/09 17:05	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/16/09 17:05	
2-Butanone (MEK)	ug/L	ND	5.0	04/16/09 17:05	
2-Hexanone	ug/L	ND	5.0	04/16/09 17:05	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	04/16/09 17:05	
Acetone	ug/L	ND	25.0	04/16/09 17:05	
Acrylonitrile	ug/L	ND	10.0	04/16/09 17:05	
Benzene	ug/L	ND	1.0	04/16/09 17:05	
Bromochloromethane	ug/L	ND	1.0	04/16/09 17:05	
Bromodichloromethane	ug/L	ND	1.0	04/16/09 17:05	
Bromoform	ug/L	ND	1.0	04/16/09 17:05	
Bromomethane	ug/L	ND	5.0	04/16/09 17:05	
Carbon disulfide	ug/L	ND	2.0	04/16/09 17:05	
Carbon tetrachloride	ug/L	ND	1.0	04/16/09 17:05	
Chlorobenzene	ug/L	ND	1.0	04/16/09 17:05	
Chloroethane	ug/L	ND	1.0	04/16/09 17:05	
Chloroform	ug/L	0.17J	1.0	04/16/09 17:05	
Chloromethane	ug/L	ND	1.0	04/16/09 17:05	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/16/09 17:05	
cis-1,3-Dichloropropene	ug/L	ND	1.0	04/16/09 17:05	
Dibromochloromethane	ug/L	ND	1.0	04/16/09 17:05	
Dibromomethane	ug/L	ND	1.0	04/16/09 17:05	
Ethylbenzene	ug/L	ND	1.0	04/16/09 17:05	
Iodomethane	ug/L	ND	5.0	04/16/09 17:05	
m&p-Xylene	ug/L	ND	2.0	04/16/09 17:05	
Methylene Chloride	ug/L	4.4	2.0	04/16/09 17:05	B-
o-Xylene	ug/L	ND	1.0	04/16/09 17:05	
Styrene	ug/L	ND	1.0	04/16/09 17:05	
Tetrachloroethene	ug/L	ND	1.0	04/16/09 17:05	
Toluene	ug/L	ND	1.0	04/16/09 17:05	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/16/09 17:05	
trans-1,3-Dichloropropene	ug/L	ND	1.0	04/16/09 17:05	

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

QUALITY CONTROL DATA

Project: Jackson Co LF 2040.12
Pace Project No.: 9241775

METHOD BLANK: 264482 Matrix: Water

Associated Lab Samples: 9241775001, 9241775002, 9241775003, 9241775004, 9241775005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,4-Dichloro-2-butene	ug/L	ND	1.0	04/16/09 17:05	
Trichloroethene	ug/L	0.47J	1.0	04/16/09 17:05	
Trichlorofluoromethane	ug/L	ND	1.0	04/16/09 17:05	
Vinyl acetate	ug/L	ND	2.0	04/16/09 17:05	
Vinyl chloride	ug/L	ND	1.0	04/16/09 17:05	
Xylene (Total)	ug/L	ND	2.0	04/16/09 17:05	
1,2-Dichloroethane-d4 (S)	%	96	79-120	04/16/09 17:05	
4-Bromofluorobenzene (S)	%	101	87-109	04/16/09 17:05	
Dibromofluoromethane (S)	%	96	85-115	04/16/09 17:05	
Toluene-d8 (S)	%	99	70-120	04/16/09 17:05	

LABORATORY CONTROL SAMPLE: 264483

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.7	97	83-125	
1,1,1-Trichloroethane	ug/L	50	47.0	94	80-129	
1,1,2,2-Tetrachloroethane	ug/L	50	44.2	88	73-127	
1,1,2-Trichloroethane	ug/L	50	47.7	95	77-123	
1,1-Dichloroethane	ug/L	50	46.2	92	76-129	
1,1-Dichloroethene	ug/L	50	47.5	95	78-146	
1,2,3-Trichloropropane	ug/L	50	47.7	95	72-125	
1,2-Dibromo-3-chloropropane	ug/L	50	46.6	93	65-128	
1,2-Dibromoethane (EDB)	ug/L	50	49.3	99	81-125	
1,2-Dichlorobenzene	ug/L	50	48.3	97	82-126	
1,2-Dichloroethane	ug/L	50	45.1	90	72-126	
1,2-Dichloropropane	ug/L	50	45.7	91	80-127	
1,4-Dichlorobenzene	ug/L	50	47.3	95	79-125	
2-Butanone (MEK)	ug/L	100	85.9	86	50-134	
2-Hexanone	ug/L	100	91.4	91	58-138	
4-Methyl-2-pentanone (MIBK)	ug/L	100	87.9	88	70-131	
Acetone	ug/L	100	83.9	84	50-146	
Acrylonitrile	ug/L	250	221	88	66-124	
Benzene	ug/L	50	46.8	94	78-128	
Bromochloromethane	ug/L	50	45.0	90	73-124	
Bromodichloromethane	ug/L	50	47.3	95	81-125	
Bromoform	ug/L	50	53.3	107	71-125	
Bromomethane	ug/L	50	38.9	78	50-150	
Carbon disulfide	ug/L	50	48.9	98	54-150	
Carbon tetrachloride	ug/L	50	51.0	102	81-137	
Chlorobenzene	ug/L	50	47.2	94	82-126	
Chloroethane	ug/L	50	35.6	71	69-140	
Chloroform	ug/L	50	44.7	89	77-129	
Chloromethane	ug/L	50	42.7	85	54-139	
cis-1,2-Dichloroethene	ug/L	50	45.5	91	76-133	
cis-1,3-Dichloropropene	ug/L	50	49.0	98	76-127	

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QUALITY CONTROL DATA

Project: Jackson Co LF 2040.12
Pace Project No.: 9241775

LABORATORY CONTROL SAMPLE: 264483

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	50	49.1	98	77-125	
Dibromomethane	ug/L	50	52.5	105	77-125	
Ethylbenzene	ug/L	50	46.9	94	80-127	
Iodomethane	ug/L	100	112	112	65-172	
m&p-Xylene	ug/L	100	94.1	94	82-127	
Methylene Chloride	ug/L	50	45.2	90	67-133	
o-Xylene	ug/L	50	46.4	93	83-124	
Styrene	ug/L	50	49.5	99	80-130	
Tetrachloroethene	ug/L	50	49.2	98	78-128	
Toluene	ug/L	50	46.5	93	76-126	
trans-1,2-Dichloroethene	ug/L	50	44.0	88	78-134	
trans-1,3-Dichloropropene	ug/L	50	49.5	99	75-125	
trans-1,4-Dichloro-2-butene	ug/L	50	45.2	90	51-140	
Trichloroethene	ug/L	50	50.6	101	79-127	
Trichlorofluoromethane	ug/L	50	46.2	92	76-148	
Vinyl acetate	ug/L	100	97.4	97	50-150	
Vinyl chloride	ug/L	50	48.0	96	67-143	
Xylene (Total)	ug/L	150	141	94	83-125	
1,2-Dichloroethane-d4 (S)	%			93	79-120	
4-Bromofluorobenzene (S)	%			103	87-109	
Dibromofluoromethane (S)	%			99	85-115	
Toluene-d8 (S)	%			98	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 264484 264485

Parameter	Units	9241775001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	47.4	51.0	95	102	60-150	7	30	
Benzene	ug/L	ND	50	50	59.0	64.0	118	128	74-136	8	30	
Chlorobenzene	ug/L	ND	50	50	55.1	61.5	110	123	79-135	11	30	
Toluene	ug/L	ND	50	50	52.9	58.3	106	117	73-131	10	30	
Trichloroethene	ug/L	ND	50	50	57.4	61.5	114	123	73-131	7	30	
1,2-Dichloroethane-d4 (S)	%						94	94	79-120			
4-Bromofluorobenzene (S)	%						100	100	87-109			
Dibromofluoromethane (S)	%						95	95	85-115			
Toluene-d8 (S)	%						98	98	70-120			

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QUALITY CONTROL DATA

Project: Jackson Co LF 2040.12
Pace Project No.: 9241775

QC Batch: MPRP/4130 — Analysis Method: EPA 6010
QC Batch Method: EPA 3010 — Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 9241775001, 9241775002, 9241775003, 9241775004

METHOD BLANK: 261850 — Matrix: Water
Associated Lab Samples: 9241775001, 9241775002, 9241775003, 9241775004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	04/14/09 02:14	
Arsenic	ug/L	ND	5.0	04/14/09 02:14	
Barium	ug/L	ND	5.0	04/14/09 02:14	
Beryllium	ug/L	ND	1.0	04/14/09 02:14	
Cadmium	ug/L	ND	1.0	04/14/09 02:14	
Chromium	ug/L	ND	5.0	04/14/09 02:14	
Cobalt	ug/L	2.6J	5.0	04/14/09 02:14	
Copper	ug/L	ND	5.0	04/14/09 02:14	
Lead	ug/L	ND	5.0	04/14/09 02:14	
Nickel	ug/L	ND	5.0	04/14/09 02:14	
Selenium	ug/L	ND	10.0	04/14/09 02:14	
Silver	ug/L	ND	5.0	04/14/09 02:14	
Vanadium	ug/L	ND	5.0	04/14/09 02:14	
Zinc	ug/L	ND	10.0	04/14/09 02:14	

LABORATORY CONTROL SAMPLE: 261851

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	454	91	80-120	
Arsenic	ug/L	500	434	87	80-120	
Barium	ug/L	500	451	90	80-120	
Beryllium	ug/L	500	430	86	80-120	
Cadmium	ug/L	500	437	87	80-120	
Chromium	ug/L	500	432	86	80-120	
Cobalt	ug/L	500	436	87	80-120	
Copper	ug/L	500	453	91	80-120	
Lead	ug/L	500	438	88	80-120	
Nickel	ug/L	500	429	86	80-120	
Selenium	ug/L	500	433	87	80-120	
Silver	ug/L	250	230	92	80-120	
Vanadium	ug/L	500	439	88	80-120	
Zinc	ug/L	500	430	86	80-120	

MATRIX SPIKE SAMPLE: 261852

Parameter	Units	9241735001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	459	92	75-125	
Arsenic	ug/L	ND	500	452	90	75-125	
Barium	ug/L	161	500	600	88	75-125	
Beryllium	ug/L	ND	500	438	88	75-125	

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QUALITY CONTROL DATA

Project: Jackson Co LF 2040.12
Pace Project No.: 9241775

MATRIX SPIKE SAMPLE: 261852

Parameter	Units	9241735001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cadmium	ug/L	ND	500	442	88	75-125	
Chromium	ug/L	ND	500	438	87	75-125	
Cobalt	ug/L	ND	500	436	86	75-125	
Copper	ug/L	ND	500	465	93	75-125	
Lead	ug/L	ND	500	433	86	75-125	
Nickel	ug/L	ND	500	428	85	75-125	
Selenium	ug/L	ND	500	442	88	75-125	
Silver	ug/L	ND	250	232	93	75-125	
Vanadium	ug/L	ND	500	447	89	75-125	
Zinc	ug/L	ND	500	441	88	75-125	

SAMPLE DUPLICATE: 261853

Parameter	Units	9241735002 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND		25	
Arsenic	ug/L	ND	ND		25	
Barium	ug/L	31.1	33.9	9	25	
Beryllium	ug/L	ND	ND		25	
Cadmium	ug/L	ND	ND		25	
Chromium	ug/L	ND	1.8J		25	
Cobalt	ug/L	5.1	2.7J		25	
Copper	ug/L	ND	0.98J		25	
Lead	ug/L	ND	ND		25	
Nickel	ug/L	ND	ND		25	
Selenium	ug/L	ND	ND		25	
Silver	ug/L	ND	ND		25	
Vanadium	ug/L	ND	0.73J		25	
Zinc	ug/L	ND	4.4J		25	

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QUALITY CONTROL DATA

Project: Jackson Co LF 2040.12
Pace Project No.: 9241775

QC Batch: MERP/2070 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 9241775001, 9241775002, 9241775003, 9241775004

METHOD BLANK: 261637 Matrix: Water
Associated Lab Samples: 9241775001, 9241775002, 9241775003, 9241775004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/10/09 16:10	

LABORATORY CONTROL SAMPLE: 261638

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.4	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 261639 261640

Parameter	Units	9241729004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.3	2.3	91	93	75-125	2	25	

SAMPLE DUPLICATE: 261641

Parameter	Units	9241509001 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury	ug/L	ND	ND		25	

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QUALIFIERS

Project: Jackson Co LF 2040.12
Pace Project No.: 9241775

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.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

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

LABORATORIES

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

ANALYTE QUALIFIERS

B-	Analyte detected in method blank but was not detected in the associated samples.

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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: of

Section A
Required Client Information:

Company:	Altamont Environmental
Address:	50 College Street
	Asheville, NC 28801
Email To:	jlenk@altamontenvironmental.com
Phone: 828-281-3350	Fax: 828-281-3351
Requested Due Date/TAT:	

Section B
Required Project Information:

Report To:	Joel Lenk
Copy To:	
Purchase Order No.:	
Project Name:	Jackson Co. Landfill
Project Number:	2040.12

Section C
Invoice Information:

Attention:	Judith Robertson
Company Name:	Altamont Environmental
Address:	50 College Street, Asheville, NC
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY
☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NC

Section D
Required Client Information

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

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

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): Appendix I VOCs (8260)	Appendix I Metals (6010/7	VOCs Method 524.2	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 9241775
1	5002-MW-02	WT	G			4/8/09	1040	13	4			X	X					X	X			-001
2	5002-MW-01	WT	G			4/8/09	1210	18	4			X	X					X	X			-002
3	5002-MW-04	WT	G			4/8/09	1435	14	4			X	X					X	X			-003
4	5002-SW-01	WT	G			4/8/09	1406	8	4			X	X					X	X			-004
5	TRIP BLANK	WT							2				X					X				-005
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Appendix I VOCs low level	[signature] / TRC	4/9/09	1702	[signature]	4/9/09	17:00	4.7	4.9	N	N
Please include MDL and lab qualifiers with all sample results										

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

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.

Subcontracted Results

Pace Project

9241708

This report includes page 1 to 8.

April 15, 2009

Lorri Patton
Pace Analytical Services, Inc.
2225 Riverside Drive
Ashville, NC 28804

RE: 9241708 Order No.: F09040469

Dear Lorri Patton:

Pace Analytical Services, Inc received 1 sample on 04/09/09 11:00:00 for the analyses presented in the following report. The results included in this report relate only to the samples received.
Analyses are performed with method-required calibration and QA/QC samples whenever applicable. Method performance, which is based on the calibration and QA/QC samples, establishes the validity and certainty of the reported sample results. This data is provided along with the sample results when requested.

Thank you for this opportunity to be of service. If you have any questions regarding this data, please feel free to call me at (386) 672-5668, extension 310.

Sincerely,
Vincent "Bo" Garcia

Project Manager
Pace Analytical Services, Inc.
P.O. Box 468
Ormond Beach, FL 32175-0468

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www.pacelabs.com
Validity Unknown
Digitally signed by Bo Garcia
DN: cn=Bo Garcia, o=Pace Analytical, c=US
Date: 2009.04.15 12:29:32 -04'00'

The test results in this report meet the requirements of the 2003 NELAC standards unless otherwise noted.

The following acronyms may be utilized within this report:

%REC	Percent Recovery
A	Absent
ABLK	Analytical Method Blank
CG	Confluent Growth
CGB	Confluent Growth Without Coliforms
CGC	Confluent Growth With Coliforms
DUP	Sample Duplicate
dw	Dry Weight
kg	Kilograms
L	Liter
LCS	Laboratory Control Spike (may also be appended with an abbreviation indicating spiking level)
MBLK	Preparation Method Blank
MDL	Laboratory Method Detection Limit
mg	Milligrams
ml	Milliliter
MS	Matrix Spike (may also be appended with an abbreviation indicating spiking level)
MSD	Matrix Spike Duplicate (may also be appended with an abbreviation indicating spiking level)
P	Present
PQL	Practical Quantitation Limit
QCS	Alternate source Calibration Verification Standard (may also be reported as analytical LCS in some
RL	Reporting Limit
RPD	Relative Percent Difference
SPK	Spike
SUB	Indicates subcontracted analytical results
TIC	Tentatively Identified Compound
TNTC	Too Numerous To Count
ug	Micrograms

The following notes may apply to analytical results within this report:

Residue (solids) analysis may employ a single, heated drying process of at least 12 hours duration in lieu of employing short, repeated drying cycles, which represents a deviation from the methodology.

Because the EPA-recommended holding time for pH, residual chlorine, chloramines and chlorine dioxide is 15 minutes from time of collection, these analyses are routinely performed outside of their EPA-recommended holding time when performed in the laboratory.

Analytical results for ammonia analysis, or calculated analytical results depending on ammonia analysis, do not include a sample distillation procedure. A study comparing distilled versus non-distilled analytical results has been performed to document the validity of the analysis without prior distillation, and represents equivalent results for the represented project matrices.

Since N-nitrosodiphenylamine decomposes in the GC inlet and cannot be chromatographically resolved from diphenylamine, these compounds are reported as a single analyte in the report.

Since m-cresol and p-cresol cannot be chromatographically resolved, these compounds are reported as a single analyte in the report.

Because 1,2-diphenylhydrazine breaks down rapidly to azobenzene at the GC inlet after initial smple injection, all results for this compound will be quantified as azobenzene.

All analytical results are provide on an "as received" basis unless units include the term "dw", indicating that the analytical results are provided on a dry weight basis.

The following certifications may apply to analytical results within this report:

Alabama	DEM	41320
Arizona	DHS	AZ0640
Colorado	DPHE	FL NELAC Reciprocity
Connecticut	DPH	PH-0216
Florida	DOH	E83079
Georgia	DNR	955
Kentucky	DEP	90050
Louisiana	DHH	LA090012
Maine	LCP	FL020
Massachusetts	DEP	M-FL1264
Michigan	DEQ	9911
Mississippi	DOH	FL NELAC Reciprocity
Nevada	EP	NAC 445A
New Hampshire	DES	2958
New Jersey	DEP	FL765
New York	DOH	11608
North Carolina	NCPH	12710
Pennsylvania	DEP	68-547
Puerto Rico	DOH	FL 00020
Tennessee	DOH	TN02974
Texas	CEQ	TX246
Virginia	DGS	432

Case Narrative

CLIENT: Pace Analytical Services, Inc.
Project: 9241708
Lab Order: F09040469

I. SAMPLE RECEIVING/ CUSTODY

The samples were received and processed by the Sample Custody section of the laboratory. There were no significant logistics or quality problems unless noted below. All sample containers received for this report were collected by either the client or an agent of the client. Any field data results contained within this report were therefore generated by the client and were reported at the request of the client.

II. ANALYTICAL DATA

The samples were analyzed according to the laboratory's Standard Operating Procedures for the methodologies requested. There were no significant logistics or quality problems unless noted below or in the text of the report.

III. QUALITY CONTROL

There were no significant quality control problems unless noted ~~below or in the text of~~ the report.

EPA 524.2:The Reporting Limit Standard (RLS) recovery for 1,2,4-trichlorobenzene associated with analytical batch 60826 exceeded method guidance criteria (high bias). LCS/LCSD analyses were performed to assess batch precision. The recovery for the LCS and LCSD associated with batch 60826 was outside method guidance criteria (high bias) for tetrachloeoethene; however, the analytical data associated with this batch that did not exhibit the presence of this target compound was reported.

Pace Analytical Services, Inc 8 East Tower Cr., Ormond Beach, FL 32174 **Date:** *15-Apr-09*

Analytical Report

CLIENT: Pace Analytical Services, Inc.
Lab Order: F09040469
Project: 9241708
Lab ID: F09040469-001

Client Sample ID: 9241708001
Collection Date: 04/07/09 16:20:00
Sample Description: DW-01
Matrix: Water

Analyses	Result	Qual	MDL	PQL	Units	DF	Date Analyzed	Batch ID
524.2: VOLATILE ORGANIC COMPOUNDS		E524.2	PrepDate:	04/10/09 09:00:00			Analyst: ALA	
Benzene	0.25	U	0.25	0.50	µg/L	1	04/11/09 13:24	60826
Carbon tetrachloride	0.25	U	0.25	0.50	µg/L	1	04/11/09 13:24	60826
o-Dichlorobenzene	0.25	U	0.25	0.50	µg/L	1	04/11/09 13:24	60826
p-Dichlorobenzene	0.25	U	0.25	0.50	µg/L	1	04/11/09 13:24	60826
1,2-Dichloroethane	0.25	U	0.25	0.50	µg/L	1	04/11/09 13:24	60826
1,1-Dichloroethene	0.25	U	0.25	0.50	µg/L	1	04/11/09 13:24	60826
cis-1,2-Dichloroethene	0.25	U	0.25	0.50	µg/L	1	04/11/09 13:24	60826
trans-1,2-Dichloroethene	0.25	U	0.25	0.50	µg/L	1	04/11/09 13:24	60826
Dichloromethane	0.44	U	0.44	0.50	µg/L	1	04/11/09 13:24	60826
1,2-Dichloropropane	0.25	U	0.25	0.50	µg/L	1	04/11/09 13:24	60826
Ethylbenzene	0.25	U	0.25	0.50	µg/L	1	04/11/09 13:24	60826
Monochlorobenzene	0.25	U	0.25	0.50	µg/L	1	04/11/09 13:24	60826
Styrene	0.25	U	0.25	0.50	µg/L	1	04/11/09 13:24	60826
Tetrachloroethene	0.25	U	0.25	0.50	µg/L	1	04/11/09 13:24	60826
Toluene	0.25	U	0.25	0.50	µg/L	1	04/11/09 13:24	60826
1,2,4-Trichlorobenzene	0.25	U	0.25	0.50	µg/L	1	04/11/09 13:24	60826
1,1,1-Trichloroethane	0.25	U	0.25	0.50	µg/L	1	04/11/09 13:24	60826
1,1,2-Trichloroethane	0.25	U	0.25	0.50	µg/L	1	04/11/09 13:24	60826
Trichloroethene	0.25	U	0.25	0.50	µg/L	1	04/11/09 13:24	60826
Vinyl chloride	0.25	U	0.25	0.50	µg/L	1	04/11/09 13:24	60826
Xylenes, Total	0.50	U	0.50	1.5	µg/L	1	04/11/09 13:24	60826
Surr: 4-Bromofluorobenzene	81.6		0	70-130	%REC	1	04/11/09 13:24	60826
Surr: Dibromofluoromethane	89.9		0	70-130	%REC	1	04/11/09 13:24	60826
Surr: 1,2-Dichloroethane-d4	92.1		0	70-130	%REC	1	04/11/09 13:24	60826
Surr: Toluene-d8	95.6		0	70-130	%REC	1	04/11/09 13:24	60826

Data Qualifier Code Key: U Not Detected Above the MDL

CLIENT: Pace Analytical Services, Inc.
Work Order: F09040469
Project: 9241708

ANALYTICAL QC SUMMARY REPORT

TestCode: 524_W

Sample ID	MB-60826	SampType:	MBLK	TestCode:	524_W	Units:	µg/L	Prep Date:	04/10/09	RunNo:	78046
Client ID:	MB-60826	Batch ID:	60826	TestNo:	E524.2		SW5030A	Analysis Date:	04/11/09	SeqNo:	2384281

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Benzene	0.25	U	0.25								
Carbon tetrachloride	0.25	U	0.25								
o-Dichlorobenzene	0.25	U	0.25								
p-Dichlorobenzene	0.25	U	0.25								
1,2-Dichloroethane	0.25	U	0.25								
1,1-Dichloroethene	0.25	U	0.25								
cis-1,2-Dichloroethene	0.25	U	0.25								
trans-1,2-Dichloroethene	0.25	U	0.25								
Dichloromethane	0.44	U	0.44								
1,2-Dichloropropane	0.25	U	0.25								
Ethylbenzene	0.25	U	0.25								
Monochlorobenzene	0.25	U	0.25								
Styrene	0.25	U	0.25								
Tetrachloroethene	0.25	U	0.25								
Toluene	0.25	U	0.25								
1,2,4-Trichlorobenzene	0.25	U	0.25								
1,1,1-Trichloroethane	0.25	U	0.25								
1,1,2-Trichloroethane	0.25	U	0.25								
Trichloroethene	0.25	U	0.25								
Vinyl chloride	0.25	U	0.25								
Xylenes, Total	0.50	U	0.50								
Surr: 4-Bromofluorobenzene	6.6		0	8.0	0	82.4	70	130			
Surr: Dibromofluoromethane	7.2		0	8.0	0	90.2	70	130			
Surr: 1,2-Dichloroethane-d4	7.3		0	8.0	0	91.6	70	130			
Surr: Toluene-d8	7.6		0	8.0	0	95.1	70	130			

Data Qualifier Code Key:

S Spike Recovery outside accepted recovery limits

U Not Detected Above the MDL

Pace Analytical Services, Inc

Date: *15-Apr-09*

CLIENT: Pace Analytical Services, Inc.
Work Order: F09040469
Project: 9241708

ANALYTICAL QC SUMMARY REPORT

TestCode: 524_W

Sample ID	LCS-60826	SampType:	LCS	TestCode:	524_W	Units:	µg/L	Prep Date:	04/10/09	RunNo:	78046
Client ID:	LCS-60826	Batch ID:	60826	TestNo:	E524.2		SW5030A	Analysis Date:	04/11/09	SeqNo:	2384283

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Benzene	5.1		0.25	5.0	0	101	70	130			
Carbon tetrachloride	5.2		0.25	5.0	0	105	70	130			
o-Dichlorobenzene	5.9		0.25	5.0	0	119	70	130			
p-Dichlorobenzene	5.9		0.25	5.0	0	118	70	130			
1,2-Dichloroethane	4.8		0.25	5.0	0	97.0	70	130			
1,1-Dichloroethene	4.8		0.25	5.0	0	95.2	70	130			
cis-1,2-Dichloroethene	4.8		0.25	5.0	0	95.6	70	130			
trans-1,2-Dichloroethene	5.0		0.25	5.0	0	101	70	130			
Dichloromethane	4.9		0.44	5.0	0	98.2	70	130			
1,2-Dichloropropane	5.1		0.25	5.0	0	102	70	130			
Ethylbenzene	5.9		0.25	5.0	0	118	70	130			
Monochlorobenzene	5.7		0.25	5.0	0	115	70	130			
Styrene	5.6		0.25	5.0	0	111	70	130			
Tetrachloroethene	9.2	S	0.25	5.0	0	**185**	70	130			
Toluene	5.9		0.25	5.0	0	118	70	130			
1,2,4-Trichlorobenzene	4.5		0.25	5.0	0	89.8	70	130			
1,1,1-Trichloroethane	5.1		0.25	5.0	0	103	70	130			
1,1,2-Trichloroethane	5.6		0.25	5.0	0	111	70	130			
Trichloroethene	5.0		0.25	5.0	0	101	70	130			
Vinyl chloride	5.1		0.25	5.0	0	102	70	130			
Xylenes, Total	17		0.50	15	0	117	70	130			
Surr: 4-Bromofluorobenzene	7.5		0	8.0	0	93.9	70	130			
Surr: Dibromofluoromethane	7.6		0	8.0	0	95.2	70	130			
Surr: 1,2-Dichloroethane-d4	7.8		0	8.0	0	97.0	70	130			
Surr: Toluene-d8	7.7		0	8.0	0	96.1	70	130			

Data Qualifier Code Key:
S Spike Recovery outside accepted recovery limits
U Not Detected Above the MDL

CLIENT: Pace Analytical Services, Inc.
Work Order: F09040469
Project: 9241708

ANALYTICAL QC SUMMARY REPORT

TestCode: 524_W

Sample ID	LCSD-60826	SampType:	LCSD	TestCode:	524_W	Units:	µg/L	Prep Date:	04/10/09	RunNo:	78046
Client ID:	LCSD-60826	Batch ID:	60826	TestNo:	E524.2		SW5030A	Analysis Date:	04/11/09	SeqNo:	2384285

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Benzene	4.8		0.25	5.0	0	96.2	70	130	5.1	5.07	40
Carbon tetrachloride	4.9		0.25	5.0	0	97.8	70	130	5.2	6.91	40
o-Dichlorobenzene	5.7		0.25	5.0	0	115	70	130	5.9	3.42	40
p-Dichlorobenzene	5.8		0.25	5.0	0	115	70	130	5.9	2.74	40
1,2-Dichloroethane	4.8		0.25	5.0	0	96.4	70	130	4.8	0.620	40
1,1-Dichloroethene	4.6		0.25	5.0	0	92.6	70	130	4.8	2.77	40
cis-1,2-Dichloroethene	4.6		0.25	5.0	0	92.0	70	130	4.8	3.84	40
trans-1,2-Dichloroethene	4.8		0.25	5.0	0	95.8	70	130	5.0	4.89	40
Dichloromethane	4.9		0.44	5.0	0	97.6	70	130	4.9	0.613	40
1,2-Dichloropropane	4.8		0.25	5.0	0	96.8	70	130	5.1	4.84	40
Ethylbenzene	5.6		0.25	5.0	0	112	70	130	5.9	4.70	40
Monochlorobenzene	5.5		0.25	5.0	0	110	70	130	5.7	4.09	40
Styrene	5.3		0.25	5.0	0	107	70	130	5.6	4.22	40
Tetrachloroethene	9.2	S	0.25	5.0	0	**184**	70	130	9.2	0.325	40
Toluene	5.6		0.25	5.0	0	112	70	130	5.9	5.04	40
1,2,4-Trichlorobenzene	4.6		0.25	5.0	0	91.6	70	130	4.5	1.98	40
1,1,1-Trichloroethane	4.9		0.25	5.0	0	98.4	70	130	5.1	4.37	40
1,1,2-Trichloroethane	5.4		0.25	5.0	0	108	70	130	5.6	3.11	40
Trichloroethene	4.9		0.25	5.0	0	97.6	70	130	5.0	3.03	40
Vinyl chloride	5.0		0.25	5.0	0	99.6	70	130	5.1	**2.18**	0
Xylenes, Total	17		0.50	15	0	111	70	130	17	0	0
Surr: 4-Bromofluorobenzene	7.4		0	8.0	0	92.6	70	130	7.5	0	0
Surr: Dibromofluoromethane	7.6		0	8.0	0	95.5	70	130	7.6	0	0
Surr: 1,2-Dichloroethane-d4	7.8		0	8.0	0	96.9	70	130	7.8	0	0
Surr: Toluene-d8	7.7		0	8.0	0	95.8	70	130	7.7	0	0

Data Qualifier Code Key:

S Spike Recovery outside accepted recovery limits

U Not Detected Above the MDL

Pace Analytical™
www.pacelabs.com

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

Section A
Required Client Information:

Company:	Altamont Environmental
Address:	50 College Street
	Asheville, NC 28801
Email To:	jlenk@altamontenvironmental.com
Phone: 828-281-3350	Fax: 828-281-3351
Requested Due Date/TAT:	

Section B
Required Project Information:

Report To:	Joel Lenk
Copy To:	
Purchase Order No.:	
Project Name:	Jackson Co. Landfill
Project Number:	2040.12

Section C
Invoice Information:

Attention:	Judith Robertson
Company Name:	Altamont Environmental
Address:	50 College Street, Asheville, NC
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

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

Site Location STATE: NC

Section D
Required Client Information

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

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

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): Appendix I VOCs (8260)	Appendix I Metals (6010/7	VOCs Method 524.2	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 9241708
1	DW-01	DW	G			4/7/09	1620	14	3				X							X		9241708001
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			
Appendix I VOCs low level	[signature] / Altamont	4/7/09	1759	[signature]	4/7/09	1759	5.8	Y	N	Y
Please include MDL and lab qualifiers with all sample results										

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER:	DATE Signed (MM/DD/YY):				

*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.

Subcontracted Results

Pace Project

9241771

This report includes page 1 to 8.

April 15, 2009

Lorri Patton
Pace Analytical Services, Inc.
2225 Riverside Drive
Ashville, NC 28804

RE: 9241771 Order No.: F09040489

Dear Lorri Patton:

Pace Analytical Services, Inc received 1 sample on 04/10/09 11:15:00 for the analyses presented in the following report. The results included in this report relate only to the samples received.
Analyses are performed with method-required calibration and QA/QC samples whenever applicable. Method performance, which is based on the calibration and QA/QC samples, establishes the validity and certainty of the reported sample results. This data is provided along with the sample results when requested.

Thank you for this opportunity to be of service. If you have any questions regarding this data, please feel free to call me at (386) 672-5668, extension 310.

Sincerely,
Vincent "Bo" Garcia

Project Manager
Pace Analytical Services, Inc.
P.O. Box 468
Ormond Beach, FL 32175-0468

Pace Analytical

Digitally signed by Bo Garcia DN: cn=Bo Garcia, o=Pace Analytical, c=US Date: 2009.04.15 12:32:45 -04'00'

The test results in this report meet the requirements of the 2003 NELAC standards unless otherwise noted.

The following acronyms may be utilized within this report:

%REC	Percent Recovery
A	Absent
ABLK	Analytical Method Blank
CG	Confluent Growth
CGB	Confluent Growth Without Coliforms
CGC	Confluent Growth With Coliforms
DUP	Sample Duplicate
dw	Dry Weight
kg	Kilograms
L	Liter
LCS	Laboratory Control Spike (may also be appended with an abbreviation indicating spiking level)
MBLK	Preparation Method Blank
MDL	Laboratory Method Detection Limit
mg	Milligrams
ml	Milliliter
MS	Matrix Spike (may also be appended with an abbreviation indicating spiking level)
MSD	Matrix Spike Duplicate (may also be appended with an abbreviation indicating spiking level)
P	Present
PQL	Practical Quantitation Limit
QCS	Alternate source Calibration Verification Standard (may also be reported as analytical LCS in some
RL	Reporting Limit
RPD	Relative Percent Difference
SPK	Spike
SUB	Indicates subcontracted analytical results
TIC	Tentatively Identified Compound
TNTC	Too Numerous To Count
ug	Micrograms

The following notes may apply to analytical results within this report:

Residue (solids) analysis may employ a single, heated drying process of at least 12 hours duration in lieu of employing short, repeated drying cycles, which represents a deviation from the methodology.

Because the EPA-recommended holding time for pH, residual chlorine, chloramines and chlorine dioxide is 15 minutes from time of collection, these analyses are routinely performed outside of their EPA-recommended holding time when performed in the laboratory.

Analytical results for ammonia analysis, or calculated analytical results depending on ammonia analysis, do not include a sample distillation procedure. A study comparing distilled versus non-distilled analytical results has been performed to document the validity of the analysis without prior distillation, and represents equivalent results for the represented project matrices.

Since N-nitrosodiphenylamine decomposes in the GC inlet and cannot be chromatographically resolved from diphenylamine, these compounds are reported as a single analyte in the report.

Since m-cresol and p-cresol cannot be chromatographically resolved, these compounds are reported as a single analyte in the report.

Because 1,2-diphenylhydrazine breaks down rapidly to azobenzene at the GC inlet after initial smple injection, all results for this compound will be quantified as azobenzene.

All analytical results are provide on an "as received" basis unless units include the term "dw", indicating that the analytical results are provided on a dry weight basis.

The following certifications may apply to analytical results within this report:

Alabama	DEM	41320
Arizona	DHS	AZ0640
Colorado	DPHE	FL NELAC Reciprocity
Connecticut	DPH	PH-0216
Florida	DOH	E83079
Georgia	DNR	955
Kentucky	DEP	90050
Louisiana	DHH	LA090012
Maine	LCP	FL020
Massachusetts	DEP	M-FL1264
Michigan	DEQ	9911
Mississippi	DOH	FL NELAC Reciprocity
Nevada	EP	NAC 445A
New Hampshire	DES	2958
New Jersey	DEP	FL765
New York	DOH	11608
North Carolina	NCPH	12710
Pennsylvania	DEP	68-547
Puerto Rico	DOH	FL 00020
Tennessee	DOH	TN02974
Texas	CEQ	TX246
Virginia	DGS	432

Case Narrative

CLIENT: Pace Analytical Services, Inc.
Project: 9241771
Lab Order: F09040489

I. SAMPLE RECEIVING/ CUSTODY

The samples were received and processed by the Sample Custody section of the laboratory. There were no significant logistics or quality problems unless noted below. All sample containers received for this report were collected by either the client or an agent of the client. Any field data results contained within this report were therefore generated by the client and were reported at the request of the client.

II. ANALYTICAL DATA

The samples were analyzed according to the laboratory's Standard Operating Procedures for the methodologies requested. There were no significant logistics or quality problems unless noted below or in the text of the report.

III. QUALITY CONTROL

There were no significant quality control problems unless noted below or in the text of the report.

EPA 524.2:The Reporting Limit Standard (RLS) recovery for 1,2,4-trichlorobenzene associated with analytical batch 60826 exceeded method guidance criteria (high bias). LCS/LCSD analyses were performed to assess batch precision. The recovery for the LCS and LCSD associated with batch 60826 was outside method guidance criteria (high bias) for tetrachloeoethene; however, the analytical data associated with this batch that did not exhibit the presence of this target compound was reported.

Analytical Report

CLIENT: Pace Analytical Services, Inc.
Lab Order: F09040489
Project: 9241771
Lab ID: F09040489-001

Client Sample ID: 9241771001
Collection Date: 04/08/09 15:20:00
Sample Description: DW-2
Matrix: Drinking Water

Analyses	Result	Qual	MDL	PQL	Units	DF	Date Analyzed	Batch ID
524.2: VOLATILE ORGANIC COMPOUNDS		E524.2	PrepDate:	04/10/09 09:00:00			Analyst: ALA	
Benzene	0.25	U	0.25	0.50	µg/L	1	04/11/09 15:31	60826
Carbon tetrachloride	0.25	U	0.25	0.50	µg/L	1	04/11/09 15:31	60826
o-Dichlorobenzene	0.25	U	0.25	0.50	µg/L	1	04/11/09 15:31	60826
p-Dichlorobenzene	0.25	U	0.25	0.50	µg/L	1	04/11/09 15:31	60826
1,2-Dichloroethane	0.25	U	0.25	0.50	µg/L	1	04/11/09 15:31	60826
1,1-Dichloroethene	0.25	U	0.25	0.50	µg/L	1	04/11/09 15:31	60826
cis-1,2-Dichloroethene	0.25	U	0.25	0.50	µg/L	1	04/11/09 15:31	60826
trans-1,2-Dichloroethene	0.25	U	0.25	0.50	µg/L	1	04/11/09 15:31	60826
Dichloromethane	0.44	U	0.44	0.50	µg/L	1	04/11/09 15:31	60826
1,2-Dichloropropane	0.25	U	0.25	0.50	µg/L	1	04/11/09 15:31	60826
Ethylbenzene	0.25	U	0.25	0.50	µg/L	1	04/11/09 15:31	60826
Monochlorobenzene	0.25	U	0.25	0.50	µg/L	1	04/11/09 15:31	60826
Styrene	0.25	U	0.25	0.50	µg/L	1	04/11/09 15:31	60826
Tetrachloroethene	0.25	U	0.25	0.50	µg/L	1	04/11/09 15:31	60826
Toluene	0.25	U	0.25	0.50	µg/L	1	04/11/09 15:31	60826
1,2,4-Trichlorobenzene	0.25	U	0.25	0.50	µg/L	1	04/11/09 15:31	60826
1,1,1-Trichloroethane	0.25	U	0.25	0.50	µg/L	1	04/11/09 15:31	60826
1,1,2-Trichloroethane	0.25	U	0.25	0.50	µg/L	1	04/11/09 15:31	60826
Trichloroethene	0.25	U	0.25	0.50	µg/L	1	04/11/09 15:31	60826
Vinyl chloride	0.25	U	0.25	0.50	µg/L	1	04/11/09 15:31	60826
Xylenes, Total	0.50	U	0.50	1.5	µg/L	1	04/11/09 15:31	60826
Surr: 4-Bromofluorobenzene	85.6		0	70-130	%REC	1	04/11/09 15:31	60826
Surr: Dibromofluoromethane	94.3		0	70-130	%REC	1	04/11/09 15:31	60826
Surr: 1,2-Dichloroethane-d4	99.8		0	70-130	%REC	1	04/11/09 15:31	60826
Surr: Toluene-d8	95.4		0	70-130	%REC	1	04/11/09 15:31	60826

Data Qualifier Code Key: U Not Detected Above the MDL

CLIENT: Pace Analytical Services, Inc.
Work Order: F09040489
Project: 9241771

ANALYTICAL QC SUMMARY REPORT

TestCode: 524_W

Sample ID	MB-60826	SampType:	MBLK	TestCode:	524_W	Units:	µg/L	Prep Date:	04/10/09	RunNo:	78046
Client ID:	MB-60826	Batch ID:	60826	TestNo:	E524.2		SW5030A	Analysis Date:	04/11/09	SeqNo:	2384281

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Benzene	0.25	U	0.25								
Carbon tetrachloride	0.25	U	0.25								
o-Dichlorobenzene	0.25	U	0.25								
p-Dichlorobenzene	0.25	U	0.25								
1,2-Dichloroethane	0.25	U	0.25								
1,1-Dichloroethene	0.25	U	0.25								
cis-1,2-Dichloroethene	0.25	U	0.25								
trans-1,2-Dichloroethene	0.25	U	0.25								
Dichloromethane	0.44	U	0.44								
1,2-Dichloropropane	0.25	U	0.25								
Ethylbenzene	0.25	U	0.25								
Monochlorobenzene	0.25	U	0.25								
Styrene	0.25	U	0.25								
Tetrachloroethene	0.25	U	0.25								
Toluene	0.25	U	0.25								
1,2,4-Trichlorobenzene	0.25	U	0.25								
1,1,1-Trichloroethane	0.25	U	0.25								
1,1,2-Trichloroethane	0.25	U	0.25								
Trichloroethene	0.25	U	0.25								
Vinyl chloride	0.25	U	0.25								
Xylenes, Total	0.50	U	0.50								
Surr: 4-Bromofluorobenzene	6.6		0	8.0	0	82.4	70	130			
Surr: Dibromofluoromethane	7.2		0	8.0	0	90.2	70	130			
Surr: 1,2-Dichloroethane-d4	7.3		0	8.0	0	91.6	70	130			
Surr: Toluene-d8	7.6		0	8.0	0	95.1	70	130			

Data Qualifier Code Key:

S Spike Recovery outside accepted recovery limits

U Not Detected Above the MDL

CLIENT: Pace Analytical Services, Inc.
Work Order: F09040489
Project: 9241771

ANALYTICAL QC SUMMARY REPORT

TestCode: 524_W

Sample ID	LCS-60826	SampType:	LCS	TestCode:	524_W	Units:	µg/L	Prep Date:	04/10/09	RunNo:	78046
Client ID:	LCS-60826	Batch ID:	60826	TestNo:	E524.2		SW5030A	Analysis Date:	04/11/09	SeqNo:	2384283

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Benzene	5.1		0.25	5.0	0	101	70	130			
Carbon tetrachloride	5.2		0.25	5.0	0	105	70	130			
o-Dichlorobenzene	5.9		0.25	5.0	0	119	70	130			
p-Dichlorobenzene	5.9		0.25	5.0	0	118	70	130			
1,2-Dichloroethane	4.8		0.25	5.0	0	97.0	70	130			
1,1-Dichloroethene	4.8		0.25	5.0	0	95.2	70	130			
cis-1,2-Dichloroethene	4.8		0.25	5.0	0	95.6	70	130			
trans-1,2-Dichloroethene	5.0		0.25	5.0	0	101	70	130			
Dichloromethane	4.9		0.44	5.0	0	98.2	70	130			
1,2-Dichloropropane	5.1		0.25	5.0	0	102	70	130			
Ethylbenzene	5.9		0.25	5.0	0	118	70	130			
Monochlorobenzene	5.7		0.25	5.0	0	115	70	130			
Styrene	5.6		0.25	5.0	0	111	70	130			
Tetrachloroethene	9.2	S	0.25	5.0	0	**185**	70	130			
Toluene	5.9		0.25	5.0	0	118	70	130			
1,2,4-Trichlorobenzene	4.5		0.25	5.0	0	89.8	70	130			
1,1,1-Trichloroethane	5.1		0.25	5.0	0	103	70	130			
1,1,2-Trichloroethane	5.6		0.25	5.0	0	111	70	130			
Trichloroethene	5.0		0.25	5.0	0	101	70	130			
Vinyl chloride	5.1		0.25	5.0	0	102	70	130			
Xylenes, Total	17		0.50	15	0	117	70	130			
Surr: 4-Bromofluorobenzene	7.5		0	8.0	0	93.9	70	130			
Surr: Dibromofluoromethane	7.6		0	8.0	0	95.2	70	130			
Surr: 1,2-Dichloroethane-d4	7.8		0	8.0	0	97.0	70	130			
Surr: Toluene-d8	7.7		0	8.0	0	96.1	70	130			

Data Qualifier Code Key:
S Spike Recovery outside accepted recovery limits
U Not Detected Above the MDL

Pace Analytical Services, Inc

Date: *15-Apr-09*

CLIENT: Pace Analytical Services, Inc.
Work Order: F09040489
Project: 9241771

ANALYTICAL QC SUMMARY REPORT

TestCode: 524_W

Sample ID	LCSD-60826	SampType:	LCSD	TestCode:	524_W	Units:	µg/L	Prep Date:	04/10/09	RunNo:	78046
Client ID:	LCSD-60826	Batch ID:	60826	TestNo:	E524.2		SW5030A	Analysis Date:	04/11/09	SeqNo:	2384285

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Benzene	4.8		0.25	5.0	0	96.2	70	130	5.1	5.07	40
Carbon tetrachloride	4.9		0.25	5.0	0	97.8	70	130	5.2	6.91	40
o-Dichlorobenzene	5.7		0.25	5.0	0	115	70	130	5.9	3.42	40
p-Dichlorobenzene	5.8		0.25	5.0	0	115	70	130	5.9	2.74	40
1,2-Dichloroethane	4.8		0.25	5.0	0	96.4	70	130	4.8	0.620	40
1,1-Dichloroethene	4.6		0.25	5.0	0	92.6	70	130	4.8	2.77	40
cis-1,2-Dichloroethene	4.6		0.25	5.0	0	92.0	70	130	4.8	3.84	40
trans-1,2-Dichloroethene	4.8		0.25	5.0	0	95.8	70	130	5.0	4.89	40
Dichloromethane	4.9		0.44	5.0	0	97.6	70	130	4.9	0.613	40
1,2-Dichloropropane	4.8		0.25	5.0	0	96.8	70	130	5.1	4.84	40
Ethylbenzene	5.6		0.25	5.0	0	112	70	130	5.9	4.70	40
Monochlorobenzene	5.5		0.25	5.0	0	110	70	130	5.7	4.09	40
Styrene	5.3		0.25	5.0	0	107	70	130	5.6	4.22	40
Tetrachloroethene	9.2	S	0.25	5.0	0	**184**	70	130	9.2	0.325	40
Toluene	5.6		0.25	5.0	0	112	70	130	5.9	5.04	40
1,2,4-Trichlorobenzene	4.6		0.25	5.0	0	91.6	70	130	4.5	1.98	40
1,1,1-Trichloroethane	4.9		0.25	5.0	0	98.4	70	130	5.1	4.37	40
1,1,2-Trichloroethane	5.4		0.25	5.0	0	108	70	130	5.6	3.11	40
Trichloroethene	4.9		0.25	5.0	0	97.6	70	130	5.0	3.03	40
Vinyl chloride	5.0		0.25	5.0	0	99.6	70	130	5.1	**2.18**	0
Xylenes, Total	17		0.50	15	0	111	70	130	17	0	0
Surr: 4-Bromofluorobenzene	7.4		0	8.0	0	92.6	70	130	7.5	0	0
Surr: Dibromofluoromethane	7.6		0	8.0	0	95.5	70	130	7.6	0	0
Surr: 1,2-Dichloroethane-d4	7.8		0	8.0	0	96.9	70	130	7.8	0	0
Surr: Toluene-d8	7.7		0	8.0	0	95.8	70	130	7.7	0	0

Data Qualifier Code Key:

S Spike Recovery outside accepted recovery limits

U Not Detected Above the MDL

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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: of

Section A Required Client Information:

Company:	Altamont Environmental
Address:	50 College Street
	Asheville, NC 28801
Email To:	jlenk@altamontenvironmental.com
Phone: 828-281-3350	Fax: 828-281-3351
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Joel Lenk
Copy To:	
Purchase Order No.:	
Project Name:	Jackson Co. Landfill
Project Number:	2040.12

Section C Invoice Information:

Attention:	Judith Robertson
Company Name:	Altamont Environmental
Address:	50 College Street, Asheville, NC
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

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

Site Location STATE: NC

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

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): Appendix I VOCs (8260)	Appendix I Metals (6010/7	VOCs Method 524.2	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 9241771
1	DW-2	DW	G			4/8/09	1520	12	3				X						X			-001
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			
Appendix I VOCs low level	[signature] / ALTAMONT	4/8/09	1702	[signature]	4/8/09	17:02	4.9	Y	N	Y
Please include MDL and lab qualifiers with all sample results										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

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

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

APPENDIX C

SUMMARY OF STUDENT'S *t*-TEST ANALYSIS OF DETECTED CONSTITUENTS

Appendix C
Summary of Student's *t*-Test Analysis of Detected Constituents
Jackson County Landfill
Jackson County, North Carolina

April 7 and 8, 2009

Detected Constituent	Groundwater Quality Standard[1]		Average Concentration Significantly Greater than the Groundwater Quality Standard[4]
	2L Standard[2] (µg/L)	GWPS[3] (µg/L)	
Metals			
Barium	2,000	NE[5]	none
Cadmium	1.75	NE[5]	N/V[6]
Chromium	50	NE[5]	none
Cobalt	NE[5]	70	none
Copper	1,000	NE[5]	none
Mercury	1.05	NE[5]	none
Nickel	100	NE[5]	none
Thallium	NE[5]	0.28	N/V[6]
Zinc	1,050	NE[5]	none
VOCs			
1,1-Dichloroethane	70	NE[5]	none
1,2-Dichlorobenzene	24	NE[5]	N/V[6]
1,4-Dichlorobenzene	1.4	NE[5]	**MW-01,MW-03, MW-04,MW-05, and MW-06[8]**
Benzene	1	NE[5]	**MW-01, MW-05, and MW-06[9]**
Chlorobenzene	50	NE[6]	none
cis-1,2-Dichloroethene	70	NE[5]	none
Tetrachloroethene	0.7	NE[5]	N/V[6]
Trichloroethene	2.8	NE[5]	N/V[6]
Vinyl chloride	0.015	NE[6]	N/V[6]
Xylene (total)	530	NE[5]	none

Appendix C
Summary of Student's *t*-Test Analysis of Detected Constituents
Jackson County Landfill
Jackson County, North Carolina

April 7 and 8, 2009

Notes:

1. Groundwater quality standards include 2L Standards and Groundwater Protection Standards (GWPS). Groundwater quality standards are in units of micrograms per liter (µg/L).
2. 2L Standard from "North Carolina Administrative Code, Title 15A: Department of Environment and Natural Resources, Subchapter 2L - Groundwater Classifications and Standards," NC DENR, last amended on December 7, 2006.
3. A Groundwater Protection Standard (GWPS) is used for comparison in the event a constituent has no established 2L Standard. GWPS is pursuant to "15A NCAC 13B .1634," NC DENR. Current standards were obtained from http://www.wastenotnc.org/sw/swenvmonitoringlist.asp, last amended on October 23, 2007.
4. Monitoring wells are listed once average concentrations are statistically greater than the relevant groundwater quality standard. "None" indicates that the average concentration of the given constituent was not statistically greater than the groundwater quality standard in any of the monitoring wells.
5. NE indicates "Not Established".
6. N/V means the statistical analysis was not valid for any of the monitoring well data because the groundwater quality standard is less than the values used for non-detects, and/or datasets contain a majority of non-detects.
7. N/A means that datasets were not analyzed because there is currently no groundwater quality standard for comparison.
8. *t*-test for 1,4-dichlorobenzene is not valid for MW-02 since the sample sets contain a majority of non-detect values and most of the values used for non-detects (i.e., the Method Reporting Limit) are greater than the groundwater quality standard.
9. *t*-test for benzene is not valid for MW-2, MW-3 and MW-4 since the sample sets contain mostly non-detect values and the value used for non-detects (i.e., the Method Reporting Limit) are greater than the groundwater quality standard. Additionally for MW-2 benzene has never been detected in the monitoring well.