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

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

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

Instructions:

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

Solid Waste Monitoring Data Submittal Information

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

Altamont Environmental, Inc.

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

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

E-mail: kmassie@altamontenvironmental.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Jackson County Municipal Solid Waste Landfill	US Highway 441 Dillsboro, NC 28725	50-02	.1600	October 9, 2007

Environmental Status: (Check all that apply)

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

Type of data submitted: (Check all that apply)

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

Notification attached?

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

Certification

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

Joel D. Lenk — P.G. — (828) 281-3350

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

Signature — 1/29/08 Date

Affix NC Licensed/ Professional Geologist/Engineer Seal here:

NORTH CAROLINA LICENSED SEAL 2014 GEOLOGIST JOEL D. LENK

Revised 01/2007

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FALL 2007 SEMI-ANNUAL WATER QUALITY MONITORING REPORT

JACKSON COUNTY MUNICIPAL SOLID WASTE LANDFILL JACKSON COUNTY, NORTH CAROLINA

Prepared for
Jackson County Solid Waste Department

January 29, 2008

Prepared by
Altamont Environmental, Inc.
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TABLE OF CONTENTS

Section **Page**

1.0 INTRODUCTION **1**

2.0 SEMIANNUAL MONITORING **2**

2.1 Groundwater, Surface Water, and Domestic Well Sampling 2

2.2 Analytical Results 4

2.2.1 Groundwater – Monitoring Wells 5
2.2.2 Surface Water 7
2.2.3 Domestic Wells 7

2.3 Hydrogeology 8

2.4 Statistical Analyses 9

2.4.1 Appendix II Metals 11
2.4.2 Appendix II VOCs 11

3.0 SUMMARY **13**

3.1 Groundwater – Monitoring Wells 13

3.2 Surface Water 15

3.3 Domestic Wells 15

FIGURES

1. Site Location Map
2. Monitoring Well and Gas Probe Location Map
3. Generalized Groundwater Flow Direction – Saprolite and Partially Weathered Bedrock Zone

TABLES

1. Analytical Data and Field Parameters
2. Solid Waste Section Limit Exceedance Notification
3. 2L Standard and Groundwater Protection Standard Exceedance Notification
4. Well Construction Details and Corresponding Elevations

APPENDICES

A. Field Data Sampling Logs
B. Laboratory Analytical Reports
C. Summary of *t*-Test Statistical Analyses

1.0 INTRODUCTION

The Jackson County Solid Waste Department maintains a closed Municipal Solid Waste Landfill (MSWLF) located approximately three-quarters of a mile 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 landfill is governed by the North Carolina Department of Environment and Natural Resources (DENR), Division of Waste Management (DWM), 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 second semiannual groundwater and surface water monitoring report for 2007 and is being submitted in accordance with requirements stipulated in the North Carolina DENR Solid Waste Management Rules 15A North Carolina Administrative Code (NCAC) 13B. The data and report also comply with the subsequent memorandum regarding Appendix II monitoring from DENR, dated April 21, 1995. In correspondence dated November 19, 2002, the DENR agreed to modify the assessment monitoring requirements at the Jackson County closed landfill. Sampling and analysis for Appendix II volatile organic compounds (VOCs), Appendix II metals, and Appendix II herbicides are currently on a biennial basis. These parameters were analyzed during the current sampling event. This report provides an evaluation of the groundwater and surface water quality. Statistical analyses of groundwater data and groundwater flow information are also provided.

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; and
- Groundwater and surface water quality analytical results with chain-of-custody forms.

2.0 SEMIANNUAL MONITORING

2.1 GROUNDWATER, SURFACE WATER, AND DOMESTIC WELL SAMPLING

The closed MSWLF monitoring wells (MW-01, MW-02, MW-03, MW-04, MW-05 and MW-06) and surface water sample locations (SW-01 and SW-02) were sampled on October 9, 2007 by Altamont Environmental, Inc. (Altamont). The monitoring well and surface water sample locations are depicted on Figure 2. Altamont also sampled two domestic wells adjacent to the landfill: one on the Wilkie property (DW-01) east of the site, and one on the Bulla property (DW-02) located north of the site.

Prior to collecting groundwater samples from the monitoring wells, the static water level and total depth were measured. As part of the groundwater sampling event, an initial round of field parameters consisting of pH, specific conductivity, dissolved oxygen, turbidity and temperature were also collected. Water level measurements and field parameters are included in Table 1. Groundwater sampling points were then purged with a disposable bailer until dry, or a minimum of three well volumes of groundwater was removed. As each consecutive well volume was removed with the bailer, an additional round of field parameters was recorded. Purging of the sampling points and measurement of groundwater parameters continued until pH, specific conductivity, and temperature readings each stabilized to within ten percent of the previous reading.

Surface water samples SW-01 and SW-02 were collected at designated locations from the Tuckasegee River, which is adjacent to the southwestern border of the landfill. SW-01 represents surface water quality upstream of the landfill; SW-02 represents surface water quality downstream from the landfill. As in groundwater sampling, temperature, pH, specific conductivity, dissolved oxygen, and turbidity were measured and recorded at each surface water sampling location (see Table 1).

Field parameters and additional observations pertaining to the MSWLF sampling locations are provided on sampling logs, which are included as Appendix A. Following sample collection, groundwater and surface water samples were immediately placed on ice in sample coolers for transport to Pace Analytical Laboratories (Pace), a North Carolina certified laboratory located in Asheville, North Carolina.

Altamont submitted the groundwater samples collected from the monitoring wells and the surface water samples for analyses as follows:

- Appendix II Volatile Organic Compounds (VOCs) using US Environmental Protection Agency (EPA) Method 8260
- Appendix II Metals using EPA Methods 6010 and 7470
- Appendix II Herbicides using EPA Method 8151
- Sulfide and cyanide using EPA methods 376.2 and 335.3, respectively.

Domestic well samples DW-01 and DW-02 were analyzed for VOCs using EPA Method 524.2.

Proper chain-of-custody documentation was followed during collection and transportation of each sample. A trip blank was also analyzed for VOCs. The analytical reports and chain-of-custody forms are included in Appendix B.

2.2 ANALYTICAL RESULTS

The laboratory analytical results for the groundwater samples (monitoring wells MW-01 – MW-06, and domestic wells DW-01 and DW-02) and surface water samples (SW-01 and SW-02) collected at the MSWLF are compiled in Table 1. Table 1 is displayed in the Electronic Data Deliverable format specified by the Solid Waste Section memorandum dated October 27, 2006. The laboratory analytical report issued by Pace is included in Appendix B.

As stipulated in the October 27, 2006 memorandum referenced above, all laboratory analytical results were reported and appropriately qualified. Non-detections (non-detects), 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 "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 NC Solid Waste Section. The SWSL is 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 standard from the North Carolina Administrative Code (NCAC) Title 15A, Subchapter 2L groundwater quality standards (2L Standard). Detected concentrations of constituents in groundwater with no established 2L Standard were compared to the Groundwater Protection Standard (GWPS) 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. Analytical results for sulfide, cyanide, and Appendix II metals are shown in Tables 1 and 2 and are discussed first, followed by a discussion of VOC results and herbicide results.

Appendix II Metals

- Nine metals (arsenic, barium, chromium, mercury, nickel, selenium, thallium, tin, and vanadium) were detected in one or more of the monitoring well groundwater samples at concentrations below SWSLs (J-flags). Tin was the only one of these metals that was J-qualified in all locations where it was detected.
- Two metals (thallium and vanadium) were detected at estimated concentrations (J-flags) in exceedance of the respective GWPSs.
- Fourteen metals (arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, nickel, selenium, thallium, vanadium, and zinc) were detected in samples collected from one or more of the monitoring wells at concentrations above the SWSLs. Table 2 presents all detected constituent concentrations above SWSLs.
- Six of the fourteen metals detected above SWSLs in groundwater samples collected from the monitoring wells exceeded the respective 2L Standard or GWPS.

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

- Barium was detected in the groundwater sample from MW-04 at concentrations greater than the 2L Standard of 2,000 µg/l.
- Cadmium was observed in MW-01 and MW-05 at concentrations exceeding the 2L Standard (2 µg/l).
- Chromium was detected above the 2L Standard, 50 µg/l, in the groundwater sample collected from MW-06.
- Cobalt was detected at concentrations above the GWPS of 70 µg/l in MW-01, MW-02, MW-03, and MW-06.
- The lead concentration detected in the groundwater sample collected from MW-06 exceeded the 15 µg/l 2L Standard.
- Thallium was detected in groundwater samples from all six monitoring wells at concentrations above the GWPS of 0.28 µg/l. Four of these detections (from MW-01 – MW-04) did not exceed the designated SWSL, and are qualified as estimated (J-flag).

- Vanadium was detected at a concentration below the SWSL (J-flag) that exceeded the GWPS of 3.5 µg/l in the groundwater sample collected from MW-04.

Appendix II VOCs

- Eight VOCs were detected at estimated concentrations below SWSLs (J-flags) in the monitoring well groundwater samples. These VOCs included: 1,2,4-trichlorobenzene; 1,2-dichlorobenzene; 1,3-dichlorobenzene; chloroethane; dichlorodifluoromethane; ethyl benzene; naphthalene; and toluene.
- Twelve VOCs (1,1-dichloroethane, 1,4-dichlorbenzene, benzene, chlorobenzene, cis-1,2-dichloroethene, m & p-xylene, methylene chloride, o-xylene, tetrachloroethene, trichloroethene, vinyl chloride, and total xylenes) were detected at concentrations in excess of SWSLs.
- Four of the twelve VOCs detected above SWSLs in the groundwater samples collected exceeded groundwater quality standards in one or more of the monitoring wells. Table 3 contains all VOCs detections in excess of the 2L Standard or GWPS. Specifically,
    - 1,4-Dichlorobenze was detected at concentrations exceeding the 2L Standard of 1.4 µg/l in groundwater samples collected from all six of the monitoring wells.
    - Benzene was detected in groundwater samples from MW-01, MW-03, MW-04, MW-05, and MW-06 in excess of the respective 2L Standard of 1 µg/l.
    - Tetrachloroethene concentrations in groundwater samples from MW-01 and MW-06 exceeded the respective 2L Standard, 1 µg/l.
    - Vinyl chloride was detected above the 2L Standard (0.015 µg/l) in two groundwater samples collected from MW-04 and MW-05. The concentration detected in MW-04 was also below the SWSL.
- Other VOCs were not detected in the monitoring wells at concentrations greater than the applicable 2L Standards or GWPSs.

Herbicides, Cyanide, and Sulfide

- Laboratory analysis did not detect any Appendix II-listed chlorinated herbicides in any of the monitoring wells MW-01 – MW-06.
- Cyanide was not observed in any of the monitoring wells during this sampling event.
- Sulfide was detected at an estimated concentration (J-flag) in the groundwater sample collected from the monitoring well MW-05.

2.2.2 Surface Water

The following statements summarize detections of cyanide, sulfide, Appendix II metals, Appendix II VOCs, and Appendix II herbicides in the two surface water samples collected during the October 2007 sampling event.

Appendix II Metals

- Six metals (barium, chromium, cobalt, copper, vanadium, and zinc) were detected at estimated concentrations (i.e., below the SWSLs) in one or both of the surface water samples collected during the October 2007 sampling event.
- Only one metal was detected in the collected surface water samples. Zinc was detected above the SWSL in the surface water sample collected downstream from the site (SW-02).
- None of the metals detected in surface water samples SW-01 or SW-02 exceeded 2B Standards.

Appendix II VOCs

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

Herbicides, Cyanide, and Sulfide

- Laboratory analysis did not detect any of the Appendix II-listed herbicides in either surface water sample.
- Cyanide was not detected in either of the collected surface water sample.
- Sulfide was detected at an estimated concentration (J-flag) in the surface water sample collected downstream from the landfill (SW-02).

2.2.3 Domestic Wells

VOCs were not detected in the samples collected from the residential domestic water wells located north and east of the landfill.

2.3 HYDROGEOLOGY

Groundwater occurring in the saprolite and bedrock aquifers is monitored at the MSWLF. Three bedrock aquifer monitoring wells, MW-01, MW-02, and MW-06, are located in the northwest portion of the site. However, because these three wells are situated in a linear pattern, and groundwater flow in fractured bedrock is complex, an accurate groundwater flow direction in bedrock cannot be reliably predicted.

Monitoring wells MW-03, MW-04, and MW-05 (Figure 3), located at the southern portion of the landfill, are completed in the unconsolidated saprolite or partially weathered rock (PWR) aquifer. Water level data collected from MW-03, MW-04, and MW-05 (Table 4) was used to predict that groundwater flow direction in the shallow aquifer is to the southwest, toward the Tuckasegee River. Figure 3 depicts the generalized groundwater flow direction in the saprolite / PWR aquifer based on the groundwater measurements made by Altamont on October 9, 2007.

2.4 STATISTICAL ANALYSES

Typically, the analysis of variance 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 on January 16, 2004, the Jackson County MSWLF does not have an adequate background well. Monitoring well MW-01 was installed by a previous consultant in a location that was presumably thought to represent background water quality. However, historical analytical results from samples collected from MW-01 suggest that water quality at MW-01 is not representative of background groundwater conditions. Therefore, an analysis of variance procedure is not feasible for this landfill.

In lieu of an analysis of variance (ANOVA) procedure, Altamont performed the Student's *t*-test statistical procedure (*t*-test) to determine whether the mean concentration of a detected constituent was statistically greater than its respective 2L Standard. The *t*-test is commonly used when comparing a time series of data (e.g., current and historic concentrations of a specific contaminant in a well) to one given value (e.g., 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 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 the 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:

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

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). 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.

The statistical analysis was performed on detected metals and VOCs. 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 specified by the laboratory (MRL) instead of the detection limit in all datasets, since the MRL is the minimum concentration of an constituent in a sample that can be quantitatively determined by the referenced method with suitable precision and accuracy. 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 Mr. Arthur Lubin, an environmental statistician with the EPA, on January 9, 2004 concerning the use of values reported as "non-detectable". Mr. 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 groundwater standard. Mr. 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 II Metals

The results of the statistical analyses are included as Appendix C. Statistical analyses for cobalt, thallium, and vanadium were not performed in previous monitoring periods, as there were no established groundwater quality standards available for comparison. New regulations adopted the DENR Solid Waste Section (described in a memorandum dated October 16, 2007) state that groundwater analytical results for constituents with no established 2L Standard should be compared to the GWPS established by the North Carolina Department of Environmental Health.

According to statistical analyses, the mean concentration of cobalt in monitoring wells MW-02, MW-03, MW-04, and MW-05 was statistically greater than the respective GWPS of 70 µg/L. These analyses suggest that there is contamination by cobalt in groundwater in the vicinity of the specified monitoring wells.

Valid analysis of the thallium and vanadium datasets was not possible due to the large amount of historical non-detects, which exceed the current GWPSs established for these metals. It should be noted that per regulations, Altamont had all groundwater samples analyzed by methods whose MRLs were equal to or below the SWSLs for all constituents; for vanadium and thallium, the SWSL exceeds the respective, current GWPS.

Due to the lack of an established 2L Standard or GWPS, a statistical analysis of the tin concentrations was not performed.

2.4.2 Appendix II VOCs

Statistical evaluation shows that the mean concentrations of two of the detected VOCs are statistically greater than their respective 2L Standards; suggesting contamination is present in groundwater in the vicinity of one or more of the monitoring wells. The following paragraphs describe the statistical results for these compounds.

1,4-dichlorobenzene

The statistical analyses show that the mean concentration of 1,4-dichlorobenzene in samples collected from monitoring wells MW-01, MW-03, MW-04, MW-05 and MW-06 is statistically greater than the respective groundwater standard of 1.4 µg/l. A valid statistical comparison was not possible for MW-02 samples, as the dataset contained a large amount of historical non-detects with reporting limits, which are greater than the respective 2L Standard.

Benzene

The mean concentration of benzene in monitoring wells MW-01, MW-05, and MW-06 is statistically greater than the respective 2L groundwater standard of 1 µg/l. Use of the t-test to evaluate concentrations of benzene in MW-02, MW-03, and MW-04 is not valid since the sample sets contain a majority of historical non-detect values with a reporting limit that exceed the 2L Standard.

Statistical analysis was not possible for three of the detected VOCs (methylene chloride, tetrachloroethene, and vinyl chloride) due to the large amount of non-detects within sample sets from each of the six monitoring wells.

3.0 SUMMARY

The second semiannual groundwater monitoring event of 2007 was conducted on October 9, 2007 at the Jackson County MSWLF.

3.1 GROUNDWATER – MONITORING WELLS

Appendix II Metals

Analytical results indicate: fourteen metals (arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, nickel, selenium, thallium, vanadium, and zinc) were detected in the groundwater samples above SWSLs; seven (barium, cadmium, chromium, cobalt, lead, thallium, and vanadium) exceeded their respective groundwater quality standards. The concentrations of four metals (barium, cadmium, chromium, and lead) were in excess of 2L Standards in one or more of the monitoring wells. Concentrations of cobalt, thallium, and vanadium exceeded GWPSs in one or more of the groundwater samples collected from monitoring wells MW-01 – MW-06. Tin was detected in samples collected from five of the six monitoring wells at concentrations below the SWSL.

Statistical analyses of available historical data suggest that there is cobalt contamination in or around one or more of the monitoring wells. The mean cobalt concentrations in monitoring wells MW-01, MW-03, MW-04, and MW-05 are greater the GWPS of 70 µg/L. Valid statistical analysis was not possible for the thallium and vanadium datasets due to the quantity of historical non-detects in the monitoring wells located at the site. Thallium was detected in samples collected from all six monitoring wells; four of the detected concentrations were below the SWSL (5.5 µg/L), and all six concentrations exceeded the GWPS of 0.28 µg/L. Vanadium was detected in excess of the GWPS of 3.5µg/L in MW-01, MW-04, MW05, and MW-06; the concentration detected in MW-04 was below the SWSL of 25 µg/L.

Field notes taken during the October 2007 sampling event indicate that the groundwater samples were turbid. Turbidity is caused by fine-grained suspended sediments that can contain naturally occurring metallic ions derived from the parent rock. Some or all of the metals detected in groundwater at the Jackson County MSWLF may be attributed to this source. Altamont recommends the use of low-flow

sampling techniques during the Spring 2008 sampling event. Low-flow sampling techniques reduce turbidity of groundwater samples, and will provide a better understanding of whether the metals detected in groundwater samples collected from the monitoring wells are naturally occurring, or whether they are the result of anthropogenic sources.

Appendix II VOCs

Of the twelve VOCs detected above SWSLs (1,1-dichloroethane, 1,4-dichlorobenzene, benzene, chlorobenzene, cis-1,2-dichloroethene, methylene chloride, tetrachloroethene, trichloroethene, vinyl chloride, m&p-xylene, o-xylene, and total xylenes) in groundwater samples collected from the monitoring wells at the site, four (1,4-dichlorobenzene, benzene, tetrachloroethene, and vinyl chloride) were found at concentrations in exceedance of their respective 2L Standards. 1,4-Dichlorobenzene was detected in all six of the groundwater samples collected from the monitoring wells. Benzene concentrations detected in groundwater samples collected from MW-01, MW-03, MW-04, MW-05, and MW-06 exceeded the 2L Standard (1µg/L). Statistical analysis indicates contamination by 1,4-dichlorobenzene and by benzene in groundwater in the vicinity of one or more of the monitoring wells. Tetrachloroethene and vinyl chloride were also detected above their respective 2L Standards in one or more of the monitoring wells. Tetrachloroethene was detected above the 2L Standard of 0.7 µg/L in groundwater samples MW-01 and MW-06. Vinyl chloride was detected in MW-04 and MW-05 above the 2L Standard (0.015 µg/L). Statistical analysis of the tetrachloroethene and vinyl chloride datasets was not possible for any of the monitoring wells due to the lack of historical detections.

Herbicides, Cyanide, and Sulfide

Herbicides and cyanide were not detected in any of the groundwater or surface water samples collected from the monitoring wells located at the site.

3.2 SURFACE WATER

Appendix II Metals

Only one metal (zinc) was detected above its respective SWSL in the surface water samples. Neither detection of zinc in the sample collected from SW-01 nor SW-02 exceeded the 2B Standard of 50 µg/L. Barium, chromium, cobalt, copper, and vanadium were also detected in one or both of the surface water samples, but only at concentrations below SWSLs (J-flags). Sulfide (i.e., total sulfides) was detected at a concentration below the SWSL in the downstream surface water sample (SW-02); currently, there is no established 2B Standard for sulfides.

Appendix II VOCs

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

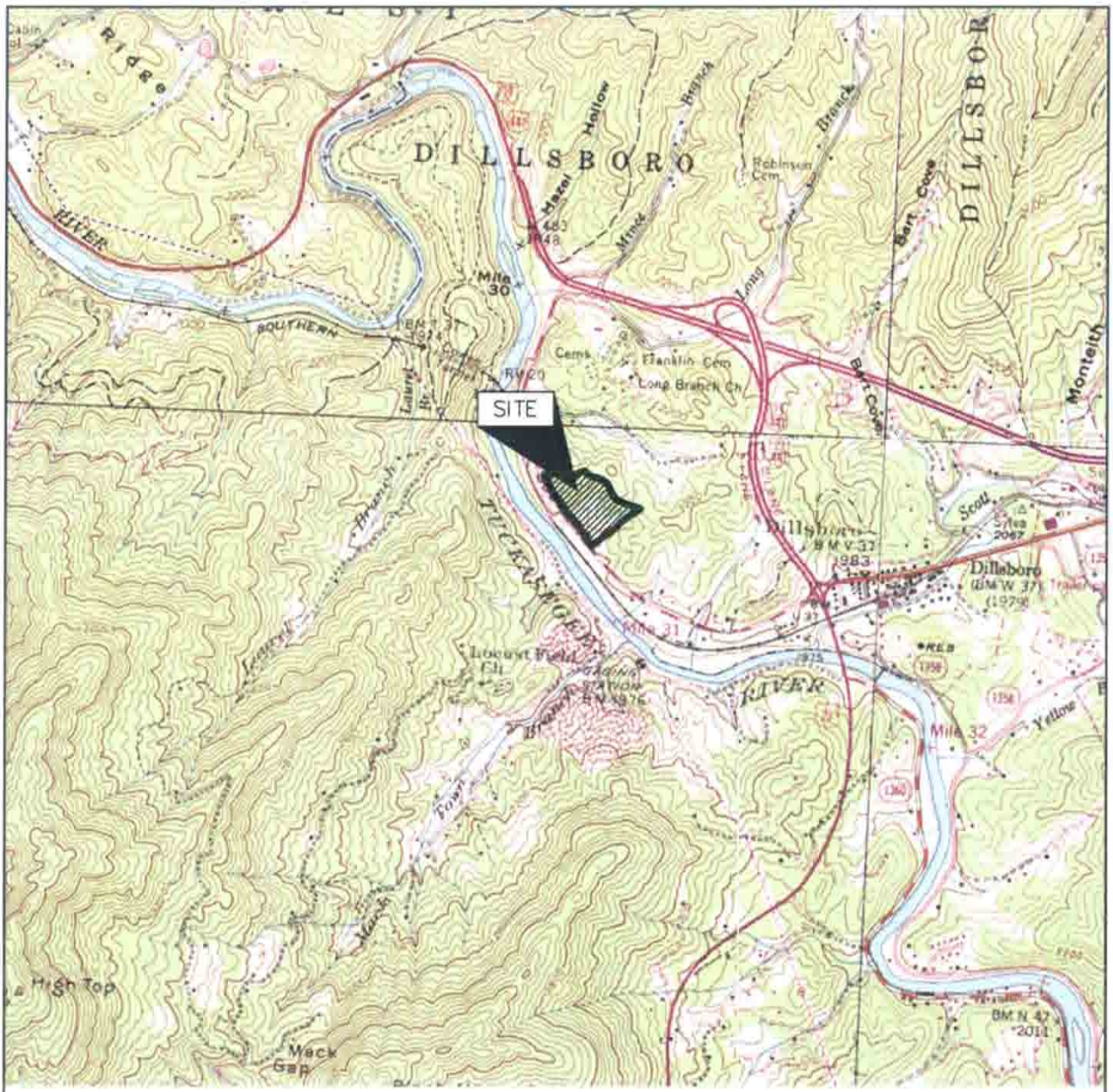
Herbicides, Cyanide, and Sulfide

Herbicides and cyanide were not detected in either surface water sample collected (SW-01 or SW-02). Sulfide was detected at an estimated concentration (J-flag) in the surface water sample collected downstream the site (SW-02). The detected concentration did not exceed the applicable 2B Standard.

3.3 DOMESTIC WELLS

VOCs were not detected in groundwater samples collected from either residential drinking water well.

Altamont will continue to monitor Appendix II VOCs, Appendix II Herbicides, Appendix II metals, cyanide, and sulfide on a biennial basis at the Jackson County MSWLF. The next semiannual sampling event, which will consist of analysis for Appendix I Metals and Appendix I VOCs, is scheduled for April 2008.



SOURCE: USGS TOPOGRAPHIC MAPS; GREENS CREEK, SYLVA NORTH, SYLVA SOUTH, AND WHITTIER, NORTH CAROLINA QUADRANGLES

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SITE LOCATION MAP

MUNICIPAL SOLID WASTE LANDFILL
JACKSON COUNTY
NORTH CAROLINA

FIGURE 1

DRAWN BY: KATIE MASSIE
PROJECT MANAGER: JOEL LENK
CLIENT: JACKSON COUNTY
DATE: 01-15-08

SCALE (FEET)
1000 0 1000 2000

P:\JACKSON COUNTY\DILLSBORO GW\FIGURES\CAD\FIGURE 1 (01-08)

LEGEND:

- MW-1 MONITORING WELL LOCATION
- SW-1 SURFACE WATER SAMPLE LOCATION
- GP-1 GAS PROBE LOCATION
- PMV-1 PRIVATE MONITORING WELL LOCATION
- SPRING-NW SPRING LOCATION

NOTE:

1. TOPOGRAPHIC CONTOURS ARE FOR REPRESENTATIVE PURPOSES. CONTOURS OBTAINED FROM McGILL ASSOCIATES.

REV.	DATE	DESCRIPTION	BY	CHK	APV
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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www.altamontenvironmental.com

DRAWN BY: KATIE MASSIE
PROJECT MANAGER: JOEL LENK
CLIENT: JACKSON COUNTY
DATE: 01/24/08

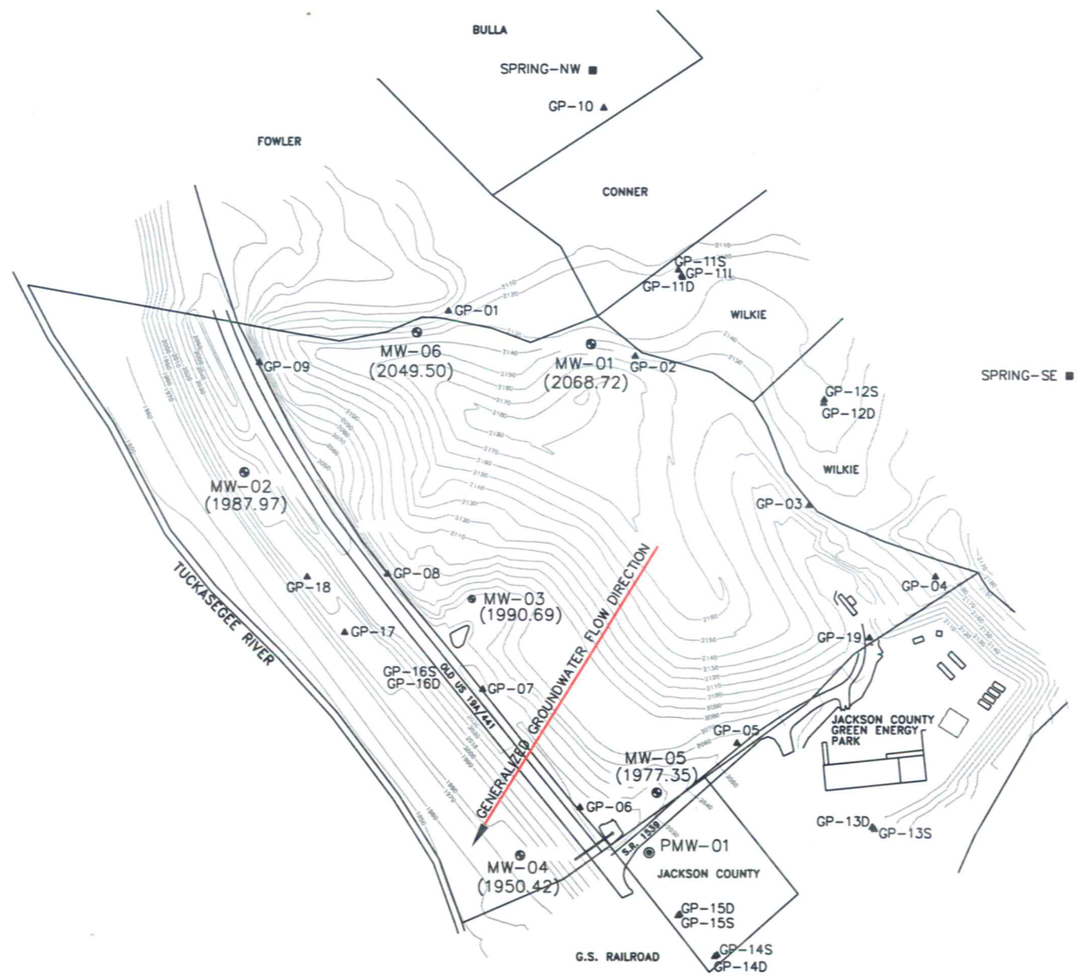
SCALE (FEET)
150 0 150 300

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 (01-08)



LEGEND:

- MW-1 MONITORING WELL LOCATION
- SW-1 SURFACE WATER SAMPLE LOCATION
- GP-1 GAS PROBE LOCATION
- PMV-1 PRIVATE MONITORING WELL LOCATION
- SPRING-NW SPRING LOCATION
- (2071.43) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL ON OCTOBER 9, 2007

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 OCTOBER 9, 2007 IN MW-01, MW-02, MW-03, MW-04, MW-05, AND MW-06.

REV.	DATE	DESCRIPTION	BY	CHK	APV
9	01-24-08	UPDATE	KRM	JDH	
8	05-14-07	UPDATE	JHV	SAR	
7	10-30-06	NEW TITLE BLOCK	JK	JDH	
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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DATE: 01/24/08

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_1007

Table 4
Well Construction Details and Corresponding Elevations
Jackson County Municipal Solid Waste Landfill
Jackson County, North Carolina

October 9, 2007

Well ID	Ground Surface Elevation	TOC Elevation	Depth To Water (from TOC)	Groundwater Elevation	Depth to Bedrock (from Ground Surface)	Bedrock Elevation	Screened Interval (from Ground Surface)	Elevation of Screened Interval
MW-01	2169.40	2171.42	102.70	2068.72	83.0	2086.40	95 to 110	2074.4 to 2059.4
MW-02	2013.15	2015.38	27.41	1987.97	13.0	2000.15	45 to 60	1968.2 to 1953.2
MW-03	2044.16	2045.53	54.84	1990.69	57.0	1987.16	48.5 to 63.5	1995.7 to 1980.7
MW-04	1978.68	1980.77	30.35	1950.42	NA	NA	25 to 40	1951.7 to 1936.7
MW-05	2027.38	2028.97	51.62	1977.35	NA	NA	50 to 60	1977.4 to 1967.4
MW-06	2136.58	2139.57	90.07	2049.50	47.6	2089.0	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 October 9, 2007.

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Well Sampling Log

FACILITY NAME: Jackson County Landfill
DATE: 10/09/07
LOCATION: Dillsboro, NC
SAMPLING TIME: 12:25
SAMPLING PERSONNEL: J Hazinski / K Massie
WEATHER: Sunny, warm

WELL NUMBER: MW-01
WELL DEPTH IN FEET (WD): 112.80
START TIME: 11:44
WELL DIAMETER: 2"
WATER LEVEL IN FEET (WL): 102.70
TYPE OF CASING: PVC
LENGTH OF WATER COLUMN : 10.10 FEET
MEASURING POINT: TOC
(WD) - (WL) = (LWC)
FLUSH MOUNT / STICK-UP
ONE CASING VOLUME: 1.72 GALLONS
COMMENTS:
(LWC) x (WCV)
THREE CASING VOLUMES: 5.16 GALLONS
ACTUAL VOLUME PURGED: 5.25 GALLONS

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

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

READING	GALLONS PURGED	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	initial	5.43	125	16.82	1.60	169.2	19.80	
2	1.75	5.43	125	16.40	2.09	144.6	23.91	
3	3.50	5.36	124	16.28	1.04	141.9	25.80	
4	5.25	5.38	125	16.36	0.85	129.5	17.40	
5								
6								
7								
8								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC	1	Appendix II Metals
40 ml GLASS	3	Appendix II VOCs 8260
1 L GLASS	2	Appendix II Herbicides 8151
125 ml PLASTIC	1	Sulfide 376.2
125 ml PLASTIC	1	Cyanide 335.3

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

Sampling Personnel Signature: Katie Massie **Date:** 10-9-07

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 County Landfill
DATE: 10/09/07
LOCATION: Dillsboro, NC
SAMPLING TIME: 16:37
SAMPLING PERSONNEL: J Hazinski / K Massie
WEATHER: light rain; overcast

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

WELL DEPTH IN FEET (WD): 62.75
START TIME: 16:00
WATER LEVEL IN FEET (WL): 27.41
LENGTH OF WATER COLUMN: 35.34 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 6.01 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 18.03 GALLONS
ACTUAL VOLUME PURGED: 18.25 GALLONS

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

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

READING	GALLONS PURGED	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	initial	5.87	133	16.25	3.08	180.4	20.78	
2	6	5.53	124	14.99	1.58	215.7	30.56	
3	12	5.61	121	14.91	2.11	198.7	18.76	
4	18.25	5.59	121	14.96	1.66	197.9	19.91	
5								
6								
7								
8								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC	1	Appendix II Metals
40 ml GLASS	3	Appendix II VOCs 8260
1 L GLASS	2	Appendix II Herbicides 1151
125 ml PLASTIC	1	Sulfide 376.2
125 ml PLASTIC	1	Cyanide 335.3

PROTECTIVE CASING: ✓ PAD: ✓ LOCK: ✓ VEGETATION: tall ACCESS: good-fair

Sampling Personnel Signature: [signature] **Date:** 10-9-07

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 County Landfill
LOCATION: Dillsboro, NC
SAMPLING PERSONNEL: J Hazinski / K Massie

DATE: 10/09/07
SAMPLING TIME: 17:26
WEATHER: Overcast, Warm

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

WELL DEPTH IN FEET (WD): 62.50
START TIME: 17:02
WATER LEVEL IN FEET (WL): 54.84
LENGTH OF WATER COLUMN: 7.66 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 1.30 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 3.90 GALLONS
ACTUAL VOLUME PURGED: 4.00 GALLONS

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

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

READING	GALLONS PURGED	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	initial	5.65	301	16.96	1.85	179.9	10.02	
2	1.50	5.55	301	16.20	1.24	161.9	26.78	
3	2.75	5.64	303	16.12	1.16	143.3	22.64	
4	4.00	5.63	307	16.24	1.14	134.7	17.69	
5								
6								
7								
8								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC	1	Appendix II Metals
40 ml GLASS	3	Appendix II VOCs 8260
1 L GLASS	2	Appendix II Herbicides 1151
125 ml PLASTIC	1	Sulfide 376.2
125 ml PLASTIC	1	Cyanide 335.3

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

Sampling Personnel Signature: [signature] **Date:** 10-9-07

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 County Landfill
LOCATION: Dillsboro, NC
SAMPLING PERSONNEL: J Hazinski / K Massie

DATE: 10/09/07
SAMPLING TIME: 14:41
WEATHER: P Cloudy, Warm

WELL NUMBER: MW-04
WELL DIAMETER: 2"
TYPE OF CASING: PVC
MEASURING POINT: TOC
FLUSH MOUNT / STICK-UP
COMMENTS:

WELL DEPTH IN FEET (WD): 42.97
START TIME: 14:11
WATER LEVEL IN FEET (WL): 30.35
LENGTH OF WATER COLUMN: 12.62 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 2.15 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 6.45 GALLONS
ACTUAL VOLUME PURGED: 6.50 GALLONS

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

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

READING	GALLONS PURGED	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	initial	5.37	462	18.09	2.78	165.3	30.45	
2	2.25	5.31	452	15.96	1.31	206.7	28.50	
3	4.50	5.35	469	15.81	1.62	250.3	82.13	
4	6.50	5.34	456	15.73	1.68	259.4	81.32	
5								
6								
7								
8								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC	1	Appendix II Metals
40 ml GLASS	3	Appendix II VOCs 8260
1 L GLASS	2	Appendix II Herbicides 1151
125 ml PLASTIC	1	Sulfide 376.2
125 ml PLASTIC	1	Cyanide 335.3

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

Sampling Personnel Signature: **Date:** 10-9-07

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

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Well Sampling Log

FACILITY NAME: Jackson County Landfill
DATE: 10/09/07
LOCATION: Dillsboro, NC
SAMPLING TIME: 18:14
SAMPLING PERSONNEL: J Hazinski / K Massie
WEATHER: p. cloudy

WELL NUMBER: MW-05
WELL DEPTH IN FEET (WD): 60.12
START TIME: 17:51
WELL DIAMETER: 2"
WATER LEVEL IN FEET (WL): 51.62
TYPE OF CASING: PVC
LENGTH OF WATER COLUMN: 8.50 FEET
MEASURING POINT: TOC
(WD) - (WL) = (LWC)
FLUSH MOUNT / STICK-UP
ONE CASING VOLUME: 1.45 GALLONS
COMMENTS: well bailed dry @ ~2.5gal; let recharge then collected samples
(LWC) x (WCV)
THREE CASING VOLUMES: 4.35 GALLONS
ACTUAL VOLUME PURGED: 2.5 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)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	initial	6.01	631	17.16	1.65	107.7	23.12	
2	1.5	6.07	622	16.73	2.44	83.2	734.6	
3	2.5	6.17	618	16.64	3.88	65.7	620.5	
4	~~4.5~~							
5								
6								
7								
8								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC	1	Appendix II Metals
40 ml GLASS	3	Appendix II VOCs 8260
1 L GLASS	2	Appendix II Herbicides 1151
125 ml PLASTIC	1	Sulfide 376.2
125 ml PLASTIC	1	Cyanide 335.3

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

Sampling Personnel Signature: [signature] **Date:** 10-9-07

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 County Landfill
DATE: 10/09/07
LOCATION: Dillsboro, NC
SAMPLING TIME: 13:13
SAMPLING PERSONNEL: J Hazinski / K Massie
WEATHER: sunny hot

WELL NUMBER: MW-06
WELL DIAMETER: 2"
TYPE OF CASING: PVC
MEASURING POINT: TOC
FLUSH MOUNT / STICK-UP
COMMENTS: water became very turbid during sampling / sample collection

WELL DEPTH IN FEET (WD): 94.00
START TIME: 12:46
WATER LEVEL IN FEET (WL): 90.07
LENGTH OF WATER COLUMN: 3.93 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 0.67 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 2.01 GALLONS
ACTUAL VOLUME PURGED: 2.25 GALLONS

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

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

READING	GALLONS PURGED	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	initial	5.35	74	17.35	1.76	53.0	35.98	
2	0.75	5.26	76	16.42	1.20	53.6	126.7	
3	1.50	5.37	89	16.22	1.15	51.8	275.4	
4	2.25	5.39	92	16.46	0.90	60.4	297.4	
5								
6								
7								
8								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC	1	Appendix II Metals
40 ml GLASS	3	Appendix II VOCs 8260
1 L GLASS	2	Appendix II Herbicides 1151
125 ml PLASTIC	1	Sulfide 376.2
125 ml PLASTIC	1	Cyanide 335.3

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

Sampling Personnel Signature: Katie Massie **Date:** 10-9-07

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

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Surface Water Sampling Log

FACILITY NAME: Jackson County Landfill
LOCATION: Dillsboro, NC
SAMPLING PERSONNEL: J Hazinski / K Massie

DATE: 10/9/07
SAMPLING TIME: 15:05
WEATHER: P Cloudy, Warm

NAME: SW-01

START TIME: 14:59
END TIME: 15:10

COMMENTS: Upstream sample

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

READING	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	6.83	32	20.85	9.41	146.5	21.62	
2							
3							
4							
5							
6							
7							
8							

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC	1	Appendix II Metals
40 ml GLASS	3	Appendix II VOCs 8260
1 L GLASS	2	Appendix II Herbicides 1151
125 ml PLASTIC	1	Sulfide 376.2
125 ml PLASTIC	1	Cyanide 335.3

VEGETATION: Tall ACCESS: GOOD POOR

Sampling Personnel Signature: [signature] **Date:** 10-9-07

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

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Surface Water Sampling Log

FACILITY NAME: Jackson County Landfill
DATE: 10/9/07
LOCATION: Dillsboro, NC
SAMPLING TIME: 15:34
SAMPLING PERSONNEL: J Hazinski / K Massie
WEATHER: overcast / cloudy

NAME: SW-02
START TIME: 15:28
COMMENTS: downstream sample
END TIME:

SAMPLE METHOD: BAILER-DISP. PUMP SYRINGE OTHER:

READING	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	7.16	32	21.44	8.81	88.4	8.61	
2							
3							
4							
5							
6							
7							
8							

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC	1	Appendix II Metals
40 ml GLASS	3	Appendix II VOCs 8260
1 L GLASS	2	Appendix II Herbicides 1151
125 ml PLASTIC	1	Sulfide 376.2
125 ml PLASTIC	1	Cyanide 335.3

VEGETATION: tall ACCESS: GOOD / POOR - fair

Sampling Personnel Signature: [signature] **Date:** 10-9-07

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

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Well Sampling Log

FACILITY NAME: Jackson County Landfill
DATE: 10/09/07
LOCATION: Dillsboro, NC
SAMPLING TIME: 10:57
SAMPLING PERSONNEL: J Hazinski / K Massie
WEATHER: Sunny, Warm

WELL NUMBER: DW - 01
WELL DEPTH IN FEET (WD): _____
START TIME: 10:35
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: Sample taken from spigot @ 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)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	initial	6.60	67	21.21	3.60	269.1	14.62	
2	5	6.43	61	16.69	3.30	269.8	20.98	
3	10	6.41	62	15.86	2.38	267.5	14.03	
4	15	6.41	67	15.09	3.14	255.5	12.86	
5	20	6.39	64	15.36	2.80	250.3	14.37	
6								
7								
8								

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

PROTECTIVE CASING: _____ PAD: _____ LOCK: _____ VEGETATION: _____ ACCESS: _____

Sampling Personnel Signature: [signature] **Date:** 10-9-07

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

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

Well Sampling Log

FACILITY NAME: Jackson County Landfill
DATE: 10/09/07
LOCATION: Dillsboro, NC
SAMPLING TIME: 11:28
SAMPLING PERSONNEL: J Hazinski / K Massie
WEATHER: Sunny, warm

WELL NUMBER: DW-02
WELL DEPTH IN FEET (WD): _____
START TIME: 11:05
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: sample taken from spigot @ pressure tank
(LWC) x (WCV)
THREE CASING VOLUMES: _____ GALLONS
ACTUAL VOLUME PURGED: _____ GALLONS

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

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

READING	GALLONS PURGED	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	initial	6.13	25	16.63	7.25	250.4	11.63	
2	5	5.69	24	16.61	7.75	260.4	10.09	
3	10	5.25	22	15.40	7.90	271.4	16.23	
4	15	5.32	22	15.37	8.40	262.1	12.32	
5	20	5.34	21	15.34	8.07	256.7	14.51	
6								
7								
8								

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

PROTECTIVE CASING: _____ PAD: _____ LOCK: _____ VEGETATION: _____ ACCESS: _____

Sampling Personnel Signature: [signature] **Date:** 10-9-07

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

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November 01, 2007

RECEIVED
NOV 0 1 2007

Mr. Stu Ryman
Altamont Environmental
50 College Street
Asheville, NC 28801

RE: Project: Jackson Co Landfill 2040.12
Pace Project No.: 925425

Dear Mr. Ryman:
Enclosed are the analytical results for sample(s) received by the laboratory on October 10, 2007. 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@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: Jackson Co Landfill 2040.12
Pace Project No.: 925425

Charlotte Certification IDs

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

Asheville Certification IDs

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

Eden Certification IDs

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

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SAMPLE SUMMARY

Project: Jackson Co Landfill 2040.12
Pace Project No.: 925425

Lab ID	Sample ID	Matrix	Date Collected	Date Received
925425001	MW-01	Water	10/09/07 12:25	10/10/07 09:19
925425002	MW-02	Water	10/09/07 16:37	10/10/07 09:19
925425003	MW-03	Water	10/09/07 17:26	10/10/07 09:19
925425004	MW-04	Water	10/09/07 14:41	10/10/07 09:19
925425005	MW-05	Water	10/09/07 18:14	10/10/07 09:19
925425006	MW-06	Water	10/09/07 13:13	10/10/07 09:19
925425007	SW-01	Water	10/09/07 15:05	10/10/07 09:19
925425008	SW-02	Water	10/09/07 15:34	10/10/07 09:19
925425009	DW-01	Water	10/09/07 10:57	10/10/07 09:19
925425010	DW-02	Water	10/09/07 11:28	10/10/07 09:19
925425011	TRIP BLANK	Water	10/09/07 00:00	10/10/07 09:19

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SAMPLE ANALYTE COUNT

Project: Jackson Co Landfill 2040.12
Pace Project No.: 925425

Lab ID	Sample ID	Method	Analytes Reported	Laboratory
925425001	MW-01	EPA 6010 GW North Carolina	16	PASI-A
		EPA 7470	1	PASI-A
		EPA 8260	68	PASI-C
		SM 4500-CN-E	1	PASI-A
		SM 4500-S2D	1	PASI-A
925425002	MW-02	EPA 6010 GW North Carolina	16	PASI-A
		EPA 7470	1	PASI-A
		EPA 8260	68	PASI-C
		SM 4500-CN-E	1	PASI-A
		SM 4500-S2D	1	PASI-A
925425003	MW-03	EPA 6010 GW North Carolina	16	PASI-A
		EPA 7470	1	PASI-A
		EPA 8260	68	PASI-C
		SM 4500-CN-E	1	PASI-A
		SM 4500-S2D	1	PASI-A
925425004	MW-04	EPA 6010 GW North Carolina	16	PASI-A
		EPA 7470	1	PASI-A
		EPA 8260	68	PASI-C
		SM 4500-CN-E	1	PASI-A
		SM 4500-S2D	1	PASI-A
925425005	MW-05	EPA 6010 GW North Carolina	16	PASI-A
		EPA 7470	1	PASI-A
		EPA 8260	68	PASI-C
		SM 4500-CN-E	1	PASI-A
		SM 4500-S2D	1	PASI-A
925425006	MW-06	EPA 6010 GW North Carolina	16	PASI-A
		EPA 7470	1	PASI-A
		EPA 8260	68	PASI-C
		SM 4500-CN-E	1	PASI-A
		SM 4500-S2D	1	PASI-A
925425007	SW-01	EPA 6010 GW North Carolina	16	PASI-A
		EPA 7470	1	PASI-A
		EPA 8260	68	PASI-C
		SM 4500-CN-E	1	PASI-A
		SM 4500-S2D	1	PASI-A
925425008	SW-02	EPA 6010 GW North Carolina	16	PASI-A
		EPA 7470	1	PASI-A

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SAMPLE ANALYTE COUNT

Project: Jackson Co Landfill 2040.12
Pace Project No.: 925425

Lab ID	Sample ID	Method	Analytes Reported	Laboratory
		EPA 8260	68	PASI-C
		SM 4500-CN-E	1	PASI-A
		SM 4500-S2D	1	PASI-A
925425011	TRIP BLANK	EPA 8260	68	PASI-C

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ANALYTICAL RESULTS

Project: Jackson Co Landfill 2040.12
Pace Project No.: 925425

Sample: MW-01 **Lab ID: 925425001** Collected: 10/09/07 12:25 Received: 10/10/07 09:19 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP NC Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	10/17/07 14:15	10/22/07 18:20	7440-36-0	
Arsenic	ND	ug/L	5.0	2.7	1	10/17/07 14:15	10/22/07 18:20	7440-38-2	
Barium	**101**	ug/L	5.0	0.20	1	10/17/07 14:15	10/22/07 18:20	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	10/17/07 14:15	10/22/07 18:20	7440-41-7	
Cadmium	**9.4**	ug/L	1.0	0.50	1	10/17/07 14:15	10/22/07 18:20	7440-43-9	
Chromium	ND	ug/L	5.0	0.40	1	10/17/07 14:15	10/22/07 18:20	7440-47-3	
Cobalt	**72.9**	ug/L	5.0	0.60	1	10/17/07 14:15	10/22/07 18:20	7440-48-4	
Copper	**15.0**	ug/L	5.0	0.30	1	10/17/07 14:15	10/22/07 18:20	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	10/17/07 14:15	10/22/07 18:20	7439-92-1	
Nickel	**8.9**	ug/L	5.0	1.7	1	10/17/07 14:15	10/22/07 18:20	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	10/17/07 14:15	10/22/07 18:20	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	10/17/07 14:15	10/22/07 18:20	7440-22-4	
Thallium	**3.2J**	ug/L	5.5	3.0	1	10/17/07 14:15	10/22/07 18:20	7440-28-0	
Tin	ND	ug/L	5.0	1.8	1	10/17/07 14:15	10/22/07 18:20	7440-31-5	
Vanadium	**0.37J**	ug/L	5.0	0.20	1	10/17/07 14:15	10/22/07 18:20	7440-62-2	
Zinc	**37.1**	ug/L	10.0	0.40	1	10/17/07 14:15	10/22/07 18:20	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.090	1	10/12/07 12:18	10/16/07 13:23	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		10/16/07 03:18	67-64-1	
Acetonitrile	ND	ug/L	50.0	2.2	1		10/16/07 03:18	75-05-8	
Acrolein	ND	ug/L	10.0	1.6	1		10/16/07 03:18	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1.9	1		10/16/07 03:18	107-13-1	
Allyl chloride	ND	ug/L	2.0	1.5	1		10/16/07 03:18	107-05-1	
Benzene	**6.8**	ug/L	1.0	0.25	1		10/16/07 03:18	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/16/07 03:18	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/16/07 03:18	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/16/07 03:18	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		10/16/07 03:18	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/16/07 03:18	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/16/07 03:18	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/16/07 03:18	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/16/07 03:18	108-90-7	
Chloroethane	**1.9**	ug/L	1.0	0.54	1		10/16/07 03:18	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/16/07 03:18	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/16/07 03:18	74-87-3	
Chloroprene	ND	ug/L	5.0	0.27	1		10/16/07 03:18	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		10/16/07 03:18	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/16/07 03:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/16/07 03:18	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/16/07 03:18	74-95-3	
1,2-Dichlorobenzene	**0.47J**	ug/L	1.0	0.30	1		10/16/07 03:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		10/16/07 03:18	541-73-1	
1,4-Dichlorobenzene	**17.8**	ug/L	1.0	0.33	1		10/16/07 03:18	106-46-7	

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ANALYTICAL RESULTS

Project: Jackson Co Landfill 2040.12
Pace Project No.: 925425

Sample: MW-01 **Lab ID: 925425001** Collected: 10/09/07 12:25 Received: 10/10/07 09:19 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		10/16/07 03:18	110-57-6	
Dichlorodifluoromethane	**0.41J**	ug/L	1.0	0.21	1		10/16/07 03:18	75-71-8	
1,1-Dichloroethane	**9.8**	ug/L	1.0	0.32	1		10/16/07 03:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/16/07 03:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/16/07 03:18	75-35-4	
cis-1,2-Dichloroethene	**14.4**	ug/L	1.0	0.19	1		10/16/07 03:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/16/07 03:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/16/07 03:18	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		10/16/07 03:18	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		10/16/07 03:18	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		10/16/07 03:18	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/16/07 03:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/16/07 03:18	10061-02-6	
Ethylbenzene	**0.94J**	ug/L	1.0	0.30	1		10/16/07 03:18	100-41-4	
Ethyl methacrylate	ND	ug/L	1.0	0.20	1		10/16/07 03:18	97-63-2	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/16/07 03:18	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		10/16/07 03:18	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		10/16/07 03:18	78-83-1	
Methacrylonitrile	ND	ug/L	10.0	0.93	1		10/16/07 03:18	126-98-7	
Methylene Chloride	**2.3**	ug/L	2.0	0.97	1		10/16/07 03:18	75-09-2	
Methyl methacrylate	ND	ug/L	2.0	2.0	1		10/16/07 03:18	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/16/07 03:18	108-10-1	
Naphthalene	**5.1**	ug/L	1.0	0.24	1		10/16/07 03:18	91-20-3	
Propionitrile	ND	ug/L	20.0	3.6	1		10/16/07 03:18	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		10/16/07 03:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/16/07 03:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/16/07 03:18	79-34-5	
Tetrachloroethene	**1.6**	ug/L	1.0	0.46	1		10/16/07 03:18	127-18-4	
Toluene	**0.68J**	ug/L	1.0	0.26	1		10/16/07 03:18	108-88-3	
1,2,4-Trichlorobenzene	**0.43J**	ug/L	1.0	0.35	1		10/16/07 03:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/16/07 03:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/16/07 03:18	79-00-5	
Trichloroethene	**1.7**	ug/L	1.0	0.47	1		10/16/07 03:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/16/07 03:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/16/07 03:18	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/16/07 03:18	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/16/07 03:18	75-01-4	
m&p-Xylene	**5.9**	ug/L	2.0	0.66	1		10/16/07 03:18	1330-20-7	
o-Xylene	**16.5**	ug/L	1.0	0.23	1		10/16/07 03:18	95-47-6	
4-Bromofluorobenzene (S)	98	%	87-109		1		10/16/07 03:18	460-00-4	
Dibromofluoromethane (S)	107	%	85-115		1		10/16/07 03:18	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	79-120		1		10/16/07 03:18	17060-07-0	
Toluene-d8 (S)	101	%	70-120		1		10/16/07 03:18	2037-26-5	
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.050	0.050	1		10/16/07 13:28		

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(704)875-9092

ANALYTICAL RESULTS

Project: Jackson Co Landfill 2040.12
Pace Project No.: 925425

Sample: MW-01 **Lab ID: 925425001** Collected: 10/09/07 12:25 Received: 10/10/07 09:19 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	ND	mg/L	0.0050	0.0050	1		10/15/07 16:01	57-12-5	

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ANALYTICAL RESULTS

Project: Jackson Co Landfill 2040.12
Pace Project No.: 925425

Sample: MW-02 **Lab ID: 925425002** Collected: 10/09/07 16:37 Received: 10/10/07 09:19 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP NC Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	10/17/07 14:15	10/22/07 18:31	7440-36-0	
Arsenic	ND	ug/L	5.0	2.7	1	10/17/07 14:15	10/22/07 18:31	7440-38-2	
Barium	**75.7**	ug/L	5.0	0.20	1	10/17/07 14:15	10/22/07 18:31	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	10/17/07 14:15	10/22/07 18:31	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	10/17/07 14:15	10/22/07 18:31	7440-43-9	
Chromium	**0.42J**	ug/L	5.0	0.40	1	10/17/07 14:15	10/22/07 18:31	7440-47-3	
Cobalt	**151**	ug/L	5.0	0.60	1	10/17/07 14:15	10/22/07 18:31	7440-48-4	
Copper	ND	ug/L	5.0	0.30	1	10/17/07 14:15	10/22/07 18:31	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	10/17/07 14:15	10/22/07 18:31	7439-92-1	
Nickel	**12.6**	ug/L	5.0	1.7	1	10/17/07 14:15	10/22/07 18:31	7440-02-0	
Selenium	**5.5J**	ug/L	10.0	3.8	1	10/17/07 14:15	10/22/07 18:31	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	10/17/07 14:15	10/22/07 18:31	7440-22-4	
Thallium	**3.1J**	ug/L	5.5	3.0	1	10/17/07 14:15	10/22/07 18:31	7440-28-0	
Tin	**4.1J**	ug/L	5.0	1.8	1	10/17/07 14:15	10/22/07 18:31	7440-31-5	
Vanadium	ND	ug/L	5.0	0.20	1	10/17/07 14:15	10/22/07 18:31	7440-62-2	
Zinc	**22.7**	ug/L	10.0	0.40	1	10/17/07 14:15	10/22/07 18:31	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.090	1	10/12/07 12:18	10/16/07 13:25	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		10/16/07 03:42	67-64-1	
Acetonitrile	ND	ug/L	50.0	2.2	1		10/16/07 03:42	75-05-8	
Acrolein	ND	ug/L	10.0	1.6	1		10/16/07 03:42	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1.9	1		10/16/07 03:42	107-13-1	
Allyl chloride	ND	ug/L	2.0	1.5	1		10/16/07 03:42	107-05-1	
Benzene	**0.42J**	ug/L	1.0	0.25	1		10/16/07 03:42	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/16/07 03:42	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/16/07 03:42	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/16/07 03:42	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		10/16/07 03:42	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/16/07 03:42	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/16/07 03:42	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/16/07 03:42	56-23-5	
Chlorobenzene	**0.66J**	ug/L	1.0	0.23	1		10/16/07 03:42	108-90-7	
Chloroethane	**1.6**	ug/L	1.0	0.54	1		10/16/07 03:42	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/16/07 03:42	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/16/07 03:42	74-87-3	
Chloroprene	ND	ug/L	5.0	0.27	1		10/16/07 03:42	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		10/16/07 03:42	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/16/07 03:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/16/07 03:42	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/16/07 03:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/16/07 03:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		10/16/07 03:42	541-73-1	
1,4-Dichlorobenzene	**1.8**	ug/L	1.0	0.33	1		10/16/07 03:42	106-46-7	

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ANALYTICAL RESULTS

Project: Jackson Co Landfill 2040.12
Pace Project No.: 925425

Sample: MW-02 **Lab ID: 925425002** Collected: 10/09/07 16:37 Received: 10/10/07 09:19 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		10/16/07 03:42	110-57-6	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		10/16/07 03:42	75-71-8	
1,1-Dichloroethane	**3.3**	ug/L	1.0	0.32	1		10/16/07 03:42	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/16/07 03:42	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/16/07 03:42	75-35-4	
cis-1,2-Dichloroethene	**5.8**	ug/L	1.0	0.19	1		10/16/07 03:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/16/07 03:42	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/16/07 03:42	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		10/16/07 03:42	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		10/16/07 03:42	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		10/16/07 03:42	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/16/07 03:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/16/07 03:42	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/16/07 03:42	100-41-4	
Ethyl methacrylate	ND	ug/L	1.0	0.20	1		10/16/07 03:42	97-63-2	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/16/07 03:42	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		10/16/07 03:42	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		10/16/07 03:42	78-83-1	
Methacrylonitrile	ND	ug/L	10.0	0.93	1		10/16/07 03:42	126-98-7	
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/16/07 03:42	75-09-2	
Methyl methacrylate	ND	ug/L	2.0	2.0	1		10/16/07 03:42	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/16/07 03:42	108-10-1	
Naphthalene	ND	ug/L	1.0	0.24	1		10/16/07 03:42	91-20-3	
Propionitrile	ND	ug/L	20.0	3.6	1		10/16/07 03:42	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		10/16/07 03:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/16/07 03:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/16/07 03:42	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/16/07 03:42	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/16/07 03:42	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		10/16/07 03:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/16/07 03:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/16/07 03:42	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/16/07 03:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/16/07 03:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/16/07 03:42	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/16/07 03:42	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/16/07 03:42	75-01-4	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/16/07 03:42	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		10/16/07 03:42	95-47-6	
4-Bromofluorobenzene (S)	99	%	87-109		1		10/16/07 03:42	460-00-4	
Dibromofluoromethane (S)	107	%	85-115		1		10/16/07 03:42	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	79-120		1		10/16/07 03:42	17060-07-0	
Toluene-d8 (S)	101	%	70-120		1		10/16/07 03:42	2037-26-5	
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.050	0.050	1		10/16/07 13:30		

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ANALYTICAL RESULTS

Project: Jackson Co Landfill 2040.12
Pace Project No.: 925425

Sample: MW-02 **Lab ID: 925425002** Collected: 10/09/07 16:37 Received: 10/10/07 09:19 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	ND	mg/L	0.0050	0.0050	1		10/15/07 16:03	57-12-5	

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ANALYTICAL RESULTS

Project: Jackson Co Landfill 2040.12
Pace Project No.: 925425

Sample: MW-03 **Lab ID: 925425003** Collected: 10/09/07 17:26 Received: 10/10/07 09:19 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP NC Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	10/17/07 14:15	10/22/07 18:39	7440-36-0	
Arsenic	ND	ug/L	5.0	2.7	1	10/17/07 14:15	10/22/07 18:39	7440-38-2	
Barium	**177**	ug/L	5.0	0.20	1	10/17/07 14:15	10/22/07 18:39	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	10/17/07 14:15	10/22/07 18:39	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	10/17/07 14:15	10/22/07 18:39	7440-43-9	
Chromium	**1.8J**	ug/L	5.0	0.40	1	10/17/07 14:15	10/22/07 18:39	7440-47-3	
Cobalt	**104**	ug/L	5.0	0.60	1	10/17/07 14:15	10/22/07 18:39	7440-48-4	
Copper	ND	ug/L	5.0	0.30	1	10/17/07 14:15	10/22/07 18:39	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	10/17/07 14:15	10/22/07 18:39	7439-92-1	
Nickel	**10.7**	ug/L	5.0	1.7	1	10/17/07 14:15	10/22/07 18:39	7440-02-0	
Selenium	**8.2J**	ug/L	10.0	3.8	1	10/17/07 14:15	10/22/07 18:39	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	10/17/07 14:15	10/22/07 18:39	7440-22-4	
Thallium	**3.6J**	ug/L	5.5	3.0	1	10/17/07 14:15	10/22/07 18:39	7440-28-0	
Tin	**7.0**	ug/L	5.0	1.8	1	10/17/07 14:15	10/22/07 18:39	7440-31-5	
Vanadium	ND	ug/L	5.0	0.20	1	10/17/07 14:15	10/22/07 18:39	7440-62-2	
Zinc	**30.4**	ug/L	10.0	0.40	1	10/17/07 14:15	10/22/07 18:39	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.34**	ug/L	0.20	0.090	1	10/19/07 11:47	10/19/07 12:47	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		10/16/07 04:06	67-64-1	
Acetonitrile	ND	ug/L	50.0	2.2	1		10/16/07 04:06	75-05-8	
Acrolein	ND	ug/L	10.0	1.6	1		10/16/07 04:06	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1.9	1		10/16/07 04:06	107-13-1	
Allyl chloride	ND	ug/L	2.0	1.5	1		10/16/07 04:06	107-05-1	
Benzene	**1.7**	ug/L	1.0	0.25	1		10/16/07 04:06	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/16/07 04:06	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/16/07 04:06	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/16/07 04:06	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		10/16/07 04:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/16/07 04:06	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/16/07 04:06	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/16/07 04:06	56-23-5	
Chlorobenzene	**10.7**	ug/L	1.0	0.23	1		10/16/07 04:06	108-90-7	
Chloroethane	**1.6**	ug/L	1.0	0.54	1		10/16/07 04:06	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/16/07 04:06	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/16/07 04:06	74-87-3	
Chloroprene	ND	ug/L	5.0	0.27	1		10/16/07 04:06	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		10/16/07 04:06	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/16/07 04:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/16/07 04:06	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/16/07 04:06	74-95-3	
1,2-Dichlorobenzene	**1.0**	ug/L	1.0	0.30	1		10/16/07 04:06	95-50-1	
1,3-Dichlorobenzene	**0.24J**	ug/L	1.0	0.24	1		10/16/07 04:06	541-73-1	
1,4-Dichlorobenzene	**18.4**	ug/L	1.0	0.33	1		10/16/07 04:06	106-46-7	

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ANALYTICAL RESULTS

Project: Jackson Co Landfill 2040.12
Pace Project No.: 925425

Sample: MW-03 **Lab ID: 925425003** Collected: 10/09/07 17:26 Received: 10/10/07 09:19 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		10/16/07 04:06	110-57-6	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		10/16/07 04:06	75-71-8	
1,1-Dichloroethane	**5.9**	ug/L	1.0	0.32	1		10/16/07 04:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/16/07 04:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/16/07 04:06	75-35-4	
cis-1,2-Dichloroethene	**10.6**	ug/L	1.0	0.19	1		10/16/07 04:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/16/07 04:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/16/07 04:06	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		10/16/07 04:06	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		10/16/07 04:06	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		10/16/07 04:06	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/16/07 04:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/16/07 04:06	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/16/07 04:06	100-41-4	
Ethyl methacrylate	ND	ug/L	1.0	0.20	1		10/16/07 04:06	97-63-2	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/16/07 04:06	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		10/16/07 04:06	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		10/16/07 04:06	78-83-1	
Methacrylonitrile	ND	ug/L	10.0	0.93	1		10/16/07 04:06	126-98-7	
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/16/07 04:06	75-09-2	
Methyl methacrylate	ND	ug/L	2.0	2.0	1		10/16/07 04:06	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/16/07 04:06	108-10-1	
Naphthalene	ND	ug/L	1.0	0.24	1		10/16/07 04:06	91-20-3	
Propionitrile	ND	ug/L	20.0	3.6	1		10/16/07 04:06	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		10/16/07 04:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/16/07 04:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/16/07 04:06	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/16/07 04:06	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/16/07 04:06	108-88-3	
1,2,4-Trichlorobenzene	**0.42J**	ug/L	1.0	0.35	1		10/16/07 04:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/16/07 04:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/16/07 04:06	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/16/07 04:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/16/07 04:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/16/07 04:06	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/16/07 04:06	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/16/07 04:06	75-01-4	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/16/07 04:06	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		10/16/07 04:06	95-47-6	
4-Bromofluorobenzene (S)	98	%	87-109		1		10/16/07 04:06	460-00-4	
Dibromofluoromethane (S)	108	%	85-115		1		10/16/07 04:06	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	79-120		1		10/16/07 04:06	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		10/16/07 04:06	2037-26-5	
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.050	0.050	1		10/16/07 12:47		

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ANALYTICAL RESULTS

Project: Jackson Co Landfill 2040.12
Pace Project No.: 925425

Sample: MW-03 **Lab ID: 925425003** Collected: 10/09/07 17:26 Received: 10/10/07 09:19 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	ND	mg/L	0.0050	0.0050	1		10/15/07 16:03	57-12-5	

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ANALYTICAL RESULTS

Project: Jackson Co Landfill 2040.12
Pace Project No.: 925425

Sample: MW-04 **Lab ID: 925425004** Collected: 10/09/07 14:41 Received: 10/10/07 09:19 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP NC Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	10/17/07 14:15	10/22/07 18:51	7440-36-0	
Arsenic	**2.7J**	ug/L	5.0	2.7	1	10/17/07 14:15	10/22/07 18:51	7440-38-2	
Barium	**3580**	ug/L	5.0	0.20	1	10/17/07 14:15	10/22/07 18:51	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	10/17/07 14:15	10/22/07 18:51	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	10/17/07 14:15	10/22/07 18:51	7440-43-9	
Chromium	**12.4**	ug/L	5.0	0.40	1	10/17/07 14:15	10/22/07 18:51	7440-47-3	
Cobalt	**16.0**	ug/L	5.0	0.60	1	10/17/07 14:15	10/22/07 18:51	7440-48-4	
Copper	**14.3**	ug/L	5.0	0.30	1	10/17/07 14:15	10/22/07 18:51	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	10/17/07 14:15	10/22/07 18:51	7439-92-1	
Nickel	**12.4**	ug/L	5.0	1.7	1	10/17/07 14:15	10/22/07 18:51	7440-02-0	
Selenium	**7.3J**	ug/L	10.0	3.8	1	10/17/07 14:15	10/22/07 18:51	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	10/17/07 14:15	10/22/07 18:51	7440-22-4	
Thallium	**4.0J**	ug/L	5.5	3.0	1	10/17/07 14:15	10/22/07 18:51	7440-28-0	
Tin	**2.5J**	ug/L	5.0	1.8	1	10/17/07 14:15	10/22/07 18:51	7440-31-5	
Vanadium	**21.4**	ug/L	5.0	0.20	1	10/17/07 14:15	10/22/07 18:51	7440-62-2	
Zinc	**64.8**	ug/L	10.0	0.40	1	10/17/07 14:15	10/22/07 18:51	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.43**	ug/L	0.20	0.090	1	10/19/07 11:47	10/19/07 12:52	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		10/16/07 04:30	67-64-1	
Acetonitrile	ND	ug/L	50.0	2.2	1		10/16/07 04:30	75-05-8	
Acrolein	ND	ug/L	10.0	1.6	1		10/16/07 04:30	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1.9	1		10/16/07 04:30	107-13-1	
Allyl chloride	ND	ug/L	2.0	1.5	1		10/16/07 04:30	107-05-1	
Benzene	**1.8**	ug/L	1.0	0.25	1		10/16/07 04:30	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/16/07 04:30	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/16/07 04:30	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/16/07 04:30	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		10/16/07 04:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/16/07 04:30	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/16/07 04:30	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/16/07 04:30	56-23-5	
Chlorobenzene	**8.1**	ug/L	1.0	0.23	1		10/16/07 04:30	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/16/07 04:30	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/16/07 04:30	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/16/07 04:30	74-87-3	
Chloroprene	ND	ug/L	5.0	0.27	1		10/16/07 04:30	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		10/16/07 04:30	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/16/07 04:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/16/07 04:30	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/16/07 04:30	74-95-3	
1,2-Dichlorobenzene	**0.63J**	ug/L	1.0	0.30	1		10/16/07 04:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		10/16/07 04:30	541-73-1	
1,4-Dichlorobenzene	**11.3**	ug/L	1.0	0.33	1		10/16/07 04:30	106-46-7	

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ANALYTICAL RESULTS

Project: Jackson Co Landfill 2040.12
Pace Project No.: 925425

Sample: MW-04 **Lab ID: 925425004** Collected: 10/09/07 14:41 Received: 10/10/07 09:19 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		10/16/07 04:30	110-57-6	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		10/16/07 04:30	75-71-8	
1,1-Dichloroethane	**3.1**	ug/L	1.0	0.32	1		10/16/07 04:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/16/07 04:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/16/07 04:30	75-35-4	
cis-1,2-Dichloroethene	**18.7**	ug/L	1.0	0.19	1		10/16/07 04:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/16/07 04:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/16/07 04:30	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		10/16/07 04:30	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		10/16/07 04:30	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		10/16/07 04:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/16/07 04:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/16/07 04:30	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/16/07 04:30	100-41-4	
Ethyl methacrylate	ND	ug/L	1.0	0.20	1		10/16/07 04:30	97-63-2	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/16/07 04:30	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		10/16/07 04:30	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		10/16/07 04:30	78-83-1	
Methacrylonitrile	ND	ug/L	10.0	0.93	1		10/16/07 04:30	126-98-7	
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/16/07 04:30	75-09-2	
Methyl methacrylate	ND	ug/L	2.0	2.0	1		10/16/07 04:30	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/16/07 04:30	108-10-1	
Naphthalene	ND	ug/L	1.0	0.24	1		10/16/07 04:30	91-20-3	
Propionitrile	ND	ug/L	20.0	3.6	1		10/16/07 04:30	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		10/16/07 04:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/16/07 04:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/16/07 04:30	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/16/07 04:30	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/16/07 04:30	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		10/16/07 04:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/16/07 04:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/16/07 04:30	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/16/07 04:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/16/07 04:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/16/07 04:30	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/16/07 04:30	108-05-4	
Vinyl chloride	**0.97J**	ug/L	1.0	0.62	1		10/16/07 04:30	75-01-4	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/16/07 04:30	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		10/16/07 04:30	95-47-6	
4-Bromofluorobenzene (S)	99	%	87-109		1		10/16/07 04:30	460-00-4	
Dibromofluoromethane (S)	108	%	85-115		1		10/16/07 04:30	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	79-120		1		10/16/07 04:30	17060-07-0	
Toluene-d8 (S)	101	%	70-120		1		10/16/07 04:30	2037-26-5	
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.050	0.050	1		10/16/07 12:47		

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ANALYTICAL RESULTS

Project: Jackson Co Landfill 2040.12
Pace Project No.: 925425

Sample: MW-04 **Lab ID: 925425004** Collected: 10/09/07 14:41 Received: 10/10/07 09:19 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	ND	mg/L	0.0050	0.0050	1		10/15/07 16:05	57-12-5	

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ANALYTICAL RESULTS

Project: Jackson Co Landfill 2040.12
Pace Project No.: 925425

Sample: MW-05 **Lab ID: 925425005** Collected: 10/09/07 18:14 Received: 10/10/07 09:19 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP NC Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	10/17/07 14:15	10/22/07 18:55	7440-36-0	
Arsenic	**4.0J**	ug/L	5.0	2.7	1	10/17/07 14:15	10/22/07 18:55	7440-38-2	
Barium	**501**	ug/L	5.0	0.20	1	10/17/07 14:15	10/22/07 18:55	7440-39-3	
Beryllium	**1.0**	ug/L	1.0	0.10	1	10/17/07 14:15	10/22/07 18:55	7440-41-7	
Cadmium	**3.1**	ug/L	1.0	0.50	1	10/17/07 14:15	10/22/07 18:55	7440-43-9	
Chromium	**10.7**	ug/L	5.0	0.40	1	10/17/07 14:15	10/22/07 18:55	7440-47-3	
Cobalt	**12.0**	ug/L	5.0	0.60	1	10/17/07 14:15	10/22/07 18:55	7440-48-4	
Copper	**36.9**	ug/L	5.0	0.30	1	10/17/07 14:15	10/22/07 18:55	7440-50-8	
Lead	**13.2**	ug/L	5.0	4.0	1	10/17/07 14:15	10/22/07 18:55	7439-92-1	
Nickel	**11.7**	ug/L	5.0	1.7	1	10/17/07 14:15	10/22/07 18:55	7440-02-0	
Selenium	**14.5**	ug/L	10.0	3.8	1	10/17/07 14:15	10/22/07 18:55	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	10/17/07 14:15	10/22/07 18:55	7440-22-4	
Thallium	**5.5**	ug/L	5.5	3.0	1	10/17/07 14:15	10/22/07 18:55	7440-28-0	
Tin	**11.4**	ug/L	5.0	1.8	1	10/17/07 14:15	10/22/07 18:55	7440-31-5	
Vanadium	**30.6**	ug/L	5.0	0.20	1	10/17/07 14:15	10/22/07 18:55	7440-62-2	
Zinc	**92.1**	ug/L	10.0	0.40	1	10/17/07 14:15	10/22/07 18:55	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.17J**	ug/L	0.20	0.090	1	10/19/07 11:47	10/19/07 13:02	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		10/16/07 04:53	67-64-1	
Acetonitrile	ND	ug/L	50.0	2.2	1		10/16/07 04:53	75-05-8	
Acrolein	ND	ug/L	10.0	1.6	1		10/16/07 04:53	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1.9	1		10/16/07 04:53	107-13-1	
Allyl chloride	ND	ug/L	2.0	1.5	1		10/16/07 04:53	107-05-1	
Benzene	**1.6**	ug/L	1.0	0.25	1		10/16/07 04:53	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/16/07 04:53	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/16/07 04:53	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/16/07 04:53	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		10/16/07 04:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/16/07 04:53	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/16/07 04:53	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/16/07 04:53	56-23-5	
Chlorobenzene	**9.6**	ug/L	1.0	0.23	1		10/16/07 04:53	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/16/07 04:53	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/16/07 04:53	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/16/07 04:53	74-87-3	
Chloroprene	ND	ug/L	5.0	0.27	1		10/16/07 04:53	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		10/16/07 04:53	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/16/07 04:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/16/07 04:53	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/16/07 04:53	74-95-3	
1,2-Dichlorobenzene	**0.62J**	ug/L	1.0	0.30	1		10/16/07 04:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		10/16/07 04:53	541-73-1	
1,4-Dichlorobenzene	**18.8**	ug/L	1.0	0.33	1		10/16/07 04:53	106-46-7	

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ANALYTICAL RESULTS

Project: Jackson Co Landfill 2040.12
Pace Project No.: 925425

Sample: MW-05 **Lab ID: 925425005** Collected: 10/09/07 18:14 Received: 10/10/07 09:19 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		10/16/07 04:53	110-57-6	
Dichlorodifluoromethane	**0.24J**	ug/L	1.0	0.21	1		10/16/07 04:53	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/16/07 04:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/16/07 04:53	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/16/07 04:53	75-35-4	
cis-1,2-Dichloroethene	**38.1**	ug/L	1.0	0.19	1		10/16/07 04:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/16/07 04:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/16/07 04:53	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		10/16/07 04:53	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		10/16/07 04:53	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		10/16/07 04:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/16/07 04:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/16/07 04:53	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/16/07 04:53	100-41-4	
Ethyl methacrylate	ND	ug/L	1.0	0.20	1		10/16/07 04:53	97-63-2	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/16/07 04:53	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		10/16/07 04:53	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		10/16/07 04:53	78-83-1	
Methacrylonitrile	ND	ug/L	10.0	0.93	1		10/16/07 04:53	126-98-7	
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/16/07 04:53	75-09-2	
Methyl methacrylate	ND	ug/L	2.0	2.0	1		10/16/07 04:53	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/16/07 04:53	108-10-1	
Naphthalene	ND	ug/L	1.0	0.24	1		10/16/07 04:53	91-20-3	
Propionitrile	ND	ug/L	20.0	3.6	1		10/16/07 04:53	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		10/16/07 04:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/16/07 04:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/16/07 04:53	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/16/07 04:53	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/16/07 04:53	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		10/16/07 04:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/16/07 04:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/16/07 04:53	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/16/07 04:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/16/07 04:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/16/07 04:53	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/16/07 04:53	108-05-4	
Vinyl chloride	**1.4**	ug/L	1.0	0.62	1		10/16/07 04:53	75-01-4	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/16/07 04:53	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		10/16/07 04:53	95-47-6	
4-Bromofluorobenzene (S)	99	%	87-109		1		10/16/07 04:53	460-00-4	
Dibromofluoromethane (S)	108	%	85-115		1		10/16/07 04:53	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	79-120		1		10/16/07 04:53	17060-07-0	
Toluene-d8 (S)	102	%	70-120		1		10/16/07 04:53	2037-26-5	
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	**0.076**	mg/L	0.050	0.050	1		10/16/07 12:47		

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ANALYTICAL RESULTS

Project: Jackson Co Landfill 2040.12
Pace Project No.: 925425

Sample: MW-05 **Lab ID: 925425005** Collected: 10/09/07 18:14 Received: 10/10/07 09:19 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	ND	mg/L	0.0050	0.0050	1		10/15/07 16:05	57-12-5	

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ANALYTICAL RESULTS

Project: Jackson Co Landfill 2040.12
Pace Project No.: 925425

Sample: MW-06 **Lab ID: 925425006** Collected: 10/09/07 13:13 Received: 10/10/07 09:19 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP NC Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	10/17/07 14:15	10/22/07 19:00	7440-36-0	
Arsenic	**13.8**	ug/L	5.0	2.7	1	10/17/07 14:15	10/22/07 19:00	7440-38-2	
Barium	**533**	ug/L	5.0	0.20	1	10/17/07 14:15	10/22/07 19:00	7440-39-3	
Beryllium	**1.7**	ug/L	1.0	0.10	1	10/17/07 14:15	10/22/07 19:00	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	10/17/07 14:15	10/22/07 19:00	7440-43-9	
Chromium	**81.9**	ug/L	5.0	0.40	1	10/17/07 14:15	10/22/07 19:00	7440-47-3	
Cobalt	**87.5**	ug/L	5.0	0.60	1	10/17/07 14:15	10/22/07 19:00	7440-48-4	
Copper	**249**	ug/L	5.0	0.30	1	10/17/07 14:15	10/22/07 19:00	7440-50-8	
Lead	**16.4**	ug/L	5.0	4.0	1	10/17/07 14:15	10/22/07 19:00	7439-92-1	
Nickel	**85.7**	ug/L	5.0	1.7	1	10/17/07 14:15	10/22/07 19:00	7440-02-0	
Selenium	**24.0**	ug/L	10.0	3.8	1	10/17/07 14:15	10/22/07 19:00	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	10/17/07 14:15	10/22/07 19:00	7440-22-4	
Thallium	**9.3**	ug/L	5.5	3.0	1	10/17/07 14:15	10/22/07 19:00	7440-28-0	
Tin	**9.9**	ug/L	5.0	1.8	1	10/17/07 14:15	10/22/07 19:00	7440-31-5	
Vanadium	**135**	ug/L	5.0	0.20	1	10/17/07 14:15	10/22/07 19:00	7440-62-2	
Zinc	**372**	ug/L	10.0	0.40	1	10/17/07 14:15	10/22/07 19:00	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.090	1	10/19/07 11:47	10/19/07 13:05	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		10/16/07 05:17	67-64-1	
Acetonitrile	ND	ug/L	50.0	2.2	1		10/16/07 05:17	75-05-8	
Acrolein	ND	ug/L	10.0	1.6	1		10/16/07 05:17	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1.9	1		10/16/07 05:17	107-13-1	
Allyl chloride	ND	ug/L	2.0	1.5	1		10/16/07 05:17	107-05-1	
Benzene	**3.3**	ug/L	1.0	0.25	1		10/16/07 05:17	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/16/07 05:17	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/16/07 05:17	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/16/07 05:17	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		10/16/07 05:17	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/16/07 05:17	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/16/07 05:17	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/16/07 05:17	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/16/07 05:17	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/16/07 05:17	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/16/07 05:17	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/16/07 05:17	74-87-3	
Chloroprene	ND	ug/L	5.0	0.27	1		10/16/07 05:17	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		10/16/07 05:17	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/16/07 05:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/16/07 05:17	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/16/07 05:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/16/07 05:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		10/16/07 05:17	541-73-1	
1,4-Dichlorobenzene	**11.2**	ug/L	1.0	0.33	1		10/16/07 05:17	106-46-7	

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ANALYTICAL RESULTS

Project: Jackson Co Landfill 2040.12
Pace Project No.: 925425

Sample: MW-06 **Lab ID: 925425006** Collected: 10/09/07 13:13 Received: 10/10/07 09:19 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		10/16/07 05:17	110-57-6	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		10/16/07 05:17	75-71-8	
1,1-Dichloroethane	**11.3**	ug/L	1.0	0.32	1		10/16/07 05:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/16/07 05:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/16/07 05:17	75-35-4	
cis-1,2-Dichloroethene	**13.2**	ug/L	1.0	0.19	1		10/16/07 05:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/16/07 05:17	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/16/07 05:17	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		10/16/07 05:17	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		10/16/07 05:17	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		10/16/07 05:17	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/16/07 05:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/16/07 05:17	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/16/07 05:17	100-41-4	
Ethyl methacrylate	ND	ug/L	1.0	0.20	1		10/16/07 05:17	97-63-2	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/16/07 05:17	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		10/16/07 05:17	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		10/16/07 05:17	78-83-1	
Methacrylonitrile	ND	ug/L	10.0	0.93	1		10/16/07 05:17	126-98-7	
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/16/07 05:17	75-09-2	
Methyl methacrylate	ND	ug/L	2.0	2.0	1		10/16/07 05:17	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/16/07 05:17	108-10-1	
Naphthalene	ND	ug/L	1.0	0.24	1		10/16/07 05:17	91-20-3	
Propionitrile	ND	ug/L	20.0	3.6	1		10/16/07 05:17	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		10/16/07 05:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/16/07 05:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/16/07 05:17	79-34-5	
Tetrachloroethene	**1.5**	ug/L	1.0	0.46	1		10/16/07 05:17	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/16/07 05:17	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		10/16/07 05:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/16/07 05:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/16/07 05:17	79-00-5	
Trichloroethene	**1.5**	ug/L	1.0	0.47	1		10/16/07 05:17	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/16/07 05:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/16/07 05:17	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/16/07 05:17	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/16/07 05:17	75-01-4	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/16/07 05:17	1330-20-7	
o-Xylene	**0.75J**	ug/L	1.0	0.23	1		10/16/07 05:17	95-47-6	
4-Bromofluorobenzene (S)	99	%	87-109		1		10/16/07 05:17	460-00-4	
Dibromofluoromethane (S)	107	%	85-115		1		10/16/07 05:17	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	79-120		1		10/16/07 05:17	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		10/16/07 05:17	2037-26-5	
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.050	0.050	1		10/16/07 13:33		

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ANALYTICAL RESULTS

Project: Jackson Co Landfill 2040.12
Pace Project No.: 925425

Sample: MW-06 **Lab ID: 925425006** Collected: 10/09/07 13:13 Received: 10/10/07 09:19 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	ND	mg/L	0.0050	0.0050	1		10/15/07 16:07	57-12-5	

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ANALYTICAL RESULTS

Project: Jackson Co Landfill 2040.12
Pace Project No.: 925425

Sample: SW-01 **Lab ID: 925425007** Collected: 10/09/07 15:05 Received: 10/10/07 09:19 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP NC Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	10/17/07 14:15	10/22/07 19:04	7440-36-0	
Arsenic	ND	ug/L	5.0	2.7	1	10/17/07 14:15	10/22/07 19:04	7440-38-2	
Barium	**16.8**	ug/L	5.0	0.20	1	10/17/07 14:15	10/22/07 19:04	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	10/17/07 14:15	10/22/07 19:04	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	10/17/07 14:15	10/22/07 19:04	7440-43-9	
Chromium	ND	ug/L	5.0	0.40	1	10/17/07 14:15	10/22/07 19:04	7440-47-3	
Cobalt	ND	ug/L	5.0	0.60	1	10/17/07 14:15	10/22/07 19:04	7440-48-4	
Copper	**0.60J**	ug/L	5.0	0.30	1	10/17/07 14:15	10/22/07 19:04	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	10/17/07 14:15	10/22/07 19:04	7439-92-1	
Nickel	ND	ug/L	5.0	1.7	1	10/17/07 14:15	10/22/07 19:04	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	10/17/07 14:15	10/22/07 19:04	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	10/17/07 14:15	10/22/07 19:04	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	10/17/07 14:15	10/22/07 19:04	7440-28-0	
Tin	ND	ug/L	5.0	1.8	1	10/17/07 14:15	10/22/07 19:04	7440-31-5	
Vanadium	**0.83J**	ug/L	5.0	0.20	1	10/17/07 14:15	10/22/07 19:04	7440-62-2	
Zinc	**4.7J**	ug/L	10.0	0.40	1	10/17/07 14:15	10/22/07 19:04	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.090	1	10/19/07 11:47	10/19/07 13:07	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		10/16/07 05:41	67-64-1	
Acetonitrile	ND	ug/L	50.0	2.2	1		10/16/07 05:41	75-05-8	
Acrolein	ND	ug/L	10.0	1.6	1		10/16/07 05:41	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1.9	1		10/16/07 05:41	107-13-1	
Allyl chloride	ND	ug/L	2.0	1.5	1		10/16/07 05:41	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		10/16/07 05:41	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/16/07 05:41	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/16/07 05:41	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/16/07 05:41	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		10/16/07 05:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/16/07 05:41	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/16/07 05:41	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/16/07 05:41	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/16/07 05:41	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/16/07 05:41	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/16/07 05:41	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/16/07 05:41	74-87-3	
Chloroprene	ND	ug/L	5.0	0.27	1		10/16/07 05:41	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		10/16/07 05:41	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/16/07 05:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/16/07 05:41	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/16/07 05:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/16/07 05:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		10/16/07 05:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/16/07 05:41	106-46-7	

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ANALYTICAL RESULTS

Project: Jackson Co Landfill 2040.12
Pace Project No.: 925425

Sample: SW-01 **Lab ID: 925425007** Collected: 10/09/07 15:05 Received: 10/10/07 09:19 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		10/16/07 05:41	110-57-6	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		10/16/07 05:41	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/16/07 05:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/16/07 05:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/16/07 05:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/16/07 05:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/16/07 05:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/16/07 05:41	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		10/16/07 05:41	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		10/16/07 05:41	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		10/16/07 05:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/16/07 05:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/16/07 05:41	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/16/07 05:41	100-41-4	
Ethyl methacrylate	ND	ug/L	1.0	0.20	1		10/16/07 05:41	97-63-2	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/16/07 05:41	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		10/16/07 05:41	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		10/16/07 05:41	78-83-1	
Methacrylonitrile	ND	ug/L	10.0	0.93	1		10/16/07 05:41	126-98-7	
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/16/07 05:41	75-09-2	
Methyl methacrylate	ND	ug/L	2.0	2.0	1		10/16/07 05:41	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/16/07 05:41	108-10-1	
Naphthalene	ND	ug/L	1.0	0.24	1		10/16/07 05:41	91-20-3	
Propionitrile	ND	ug/L	20.0	3.6	1		10/16/07 05:41	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		10/16/07 05:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/16/07 05:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/16/07 05:41	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/16/07 05:41	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/16/07 05:41	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		10/16/07 05:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/16/07 05:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/16/07 05:41	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/16/07 05:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/16/07 05:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/16/07 05:41	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/16/07 05:41	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/16/07 05:41	75-01-4	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/16/07 05:41	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		10/16/07 05:41	95-47-6	
4-Bromofluorobenzene (S)	99	%	87-109		1		10/16/07 05:41	460-00-4	
Dibromofluoromethane (S)	108	%	85-115		1		10/16/07 05:41	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	79-120		1		10/16/07 05:41	17060-07-0	
Toluene-d8 (S)	101	%	70-120		1		10/16/07 05:41	2037-26-5	
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.050	0.050	1		10/16/07 13:33		

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ANALYTICAL RESULTS

Project: Jackson Co Landfill 2040.12
Pace Project No.: 925425

Sample: SW-01 **Lab ID: 925425007** Collected: 10/09/07 15:05 Received: 10/10/07 09:19 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	ND	mg/L	0.0050	0.0050	1		10/15/07 16:07	57-12-5	

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ANALYTICAL RESULTS

Project: Jackson Co Landfill 2040.12
Pace Project No.: 925425

Sample: SW-02 **Lab ID: 925425008** Collected: 10/09/07 15:34 Received: 10/10/07 09:19 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP NC Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	10/17/07 14:15	10/22/07 19:08	7440-36-0	
Arsenic	ND	ug/L	5.0	2.7	1	10/17/07 14:15	10/22/07 19:08	7440-38-2	
Barium	**22.0**	ug/L	5.0	0.20	1	10/17/07 14:15	10/22/07 19:08	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	10/17/07 14:15	10/22/07 19:08	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	10/17/07 14:15	10/22/07 19:08	7440-43-9	
Chromium	**1.2J**	ug/L	5.0	0.40	1	10/17/07 14:15	10/22/07 19:08	7440-47-3	
Cobalt	**0.68J**	ug/L	5.0	0.60	1	10/17/07 14:15	10/22/07 19:08	7440-48-4	
Copper	**1.6J**	ug/L	5.0	0.30	1	10/17/07 14:15	10/22/07 19:08	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	10/17/07 14:15	10/22/07 19:08	7439-92-1	
Nickel	ND	ug/L	5.0	1.7	1	10/17/07 14:15	10/22/07 19:08	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	10/17/07 14:15	10/22/07 19:08	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	10/17/07 14:15	10/22/07 19:08	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	10/17/07 14:15	10/22/07 19:08	7440-28-0	
Tin	ND	ug/L	5.0	1.8	1	10/17/07 14:15	10/22/07 19:08	7440-31-5	
Vanadium	**2.4J**	ug/L	5.0	0.20	1	10/17/07 14:15	10/22/07 19:08	7440-62-2	
Zinc	**10.8**	ug/L	10.0	0.40	1	10/17/07 14:15	10/22/07 19:08	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.090	1	10/19/07 11:47	10/19/07 13:10	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		10/16/07 06:05	67-64-1	
Acetonitrile	ND	ug/L	50.0	2.2	1		10/16/07 06:05	75-05-8	
Acrolein	ND	ug/L	10.0	1.6	1		10/16/07 06:05	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1.9	1		10/16/07 06:05	107-13-1	
Allyl chloride	ND	ug/L	2.0	1.5	1		10/16/07 06:05	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		10/16/07 06:05	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/16/07 06:05	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/16/07 06:05	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/16/07 06:05	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		10/16/07 06:05	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/16/07 06:05	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/16/07 06:05	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/16/07 06:05	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/16/07 06:05	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/16/07 06:05	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/16/07 06:05	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/16/07 06:05	74-87-3	
Chloroprene	ND	ug/L	5.0	0.27	1		10/16/07 06:05	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		10/16/07 06:05	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/16/07 06:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/16/07 06:05	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/16/07 06:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/16/07 06:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		10/16/07 06:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/16/07 06:05	106-46-7	

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ANALYTICAL RESULTS

Project: Jackson Co Landfill 2040.12
Pace Project No.: 925425

Sample: SW-02 **Lab ID: 925425008** Collected: 10/09/07 15:34 Received: 10/10/07 09:19 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		10/16/07 06:05	110-57-6	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		10/16/07 06:05	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/16/07 06:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/16/07 06:05	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/16/07 06:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/16/07 06:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/16/07 06:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/16/07 06:05	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		10/16/07 06:05	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		10/16/07 06:05	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		10/16/07 06:05	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/16/07 06:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/16/07 06:05	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/16/07 06:05	100-41-4	
Ethyl methacrylate	ND	ug/L	1.0	0.20	1		10/16/07 06:05	97-63-2	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/16/07 06:05	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		10/16/07 06:05	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		10/16/07 06:05	78-83-1	
Methacrylonitrile	ND	ug/L	10.0	0.93	1		10/16/07 06:05	126-98-7	
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/16/07 06:05	75-09-2	
Methyl methacrylate	ND	ug/L	2.0	2.0	1		10/16/07 06:05	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/16/07 06:05	108-10-1	
Naphthalene	ND	ug/L	1.0	0.24	1		10/16/07 06:05	91-20-3	
Propionitrile	ND	ug/L	20.0	3.6	1		10/16/07 06:05	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		10/16/07 06:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/16/07 06:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/16/07 06:05	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/16/07 06:05	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/16/07 06:05	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		10/16/07 06:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/16/07 06:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/16/07 06:05	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/16/07 06:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/16/07 06:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/16/07 06:05	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/16/07 06:05	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/16/07 06:05	75-01-4	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/16/07 06:05	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		10/16/07 06:05	95-47-6	
4-Bromofluorobenzene (S)	100	%	87-109		1		10/16/07 06:05	460-00-4	
Dibromofluoromethane (S)	109	%	85-115		1		10/16/07 06:05	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	79-120		1		10/16/07 06:05	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		10/16/07 06:05	2037-26-5	
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	**0.096**	mg/L	0.050	0.050	1		10/16/07 13:33		

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ANALYTICAL RESULTS

Project: Jackson Co Landfill 2040.12
Pace Project No.: 925425

Sample: SW-02 **Lab ID: 925425008** Collected: 10/09/07 15:34 Received: 10/10/07 09:19 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	ND	mg/L	0.0050	0.0050	1		10/15/07 16:08	57-12-5	

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ANALYTICAL RESULTS

Project: Jackson Co Landfill 2040.12
Pace Project No.: 925425

Sample: TRIP BLANK **Lab ID: 925425011** Collected: 10/09/07 00:00 Received: 10/10/07 09:19 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		10/16/07 00:56	67-64-1	
Acetonitrile	ND	ug/L	50.0	2.2	1		10/16/07 00:56	75-05-8	
Acrolein	ND	ug/L	10.0	1.6	1		10/16/07 00:56	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1.9	1		10/16/07 00:56	107-13-1	
Allyl chloride	ND	ug/L	2.0	1.5	1		10/16/07 00:56	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		10/16/07 00:56	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/16/07 00:56	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/16/07 00:56	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/16/07 00:56	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		10/16/07 00:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/16/07 00:56	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/16/07 00:56	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/16/07 00:56	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/16/07 00:56	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/16/07 00:56	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/16/07 00:56	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/16/07 00:56	74-87-3	
Chloroprene	ND	ug/L	5.0	0.27	1		10/16/07 00:56	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		10/16/07 00:56	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/16/07 00:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/16/07 00:56	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/16/07 00:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/16/07 00:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		10/16/07 00:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/16/07 00:56	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		10/16/07 00:56	110-57-6	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		10/16/07 00:56	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/16/07 00:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/16/07 00:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/16/07 00:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/16/07 00:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/16/07 00:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/16/07 00:56	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		10/16/07 00:56	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		10/16/07 00:56	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		10/16/07 00:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/16/07 00:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/16/07 00:56	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/16/07 00:56	100-41-4	
Ethyl methacrylate	ND	ug/L	1.0	0.20	1		10/16/07 00:56	97-63-2	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/16/07 00:56	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		10/16/07 00:56	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		10/16/07 00:56	78-83-1	
Methacrylonitrile	ND	ug/L	10.0	0.93	1		10/16/07 00:56	126-98-7	
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/16/07 00:56	75-09-2	
Methyl methacrylate	ND	ug/L	2.0	2.0	1		10/16/07 00:56	80-62-6	

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ANALYTICAL RESULTS

Project: Jackson Co Landfill 2040.12
Pace Project No.: 925425

Sample: TRIP BLANK **Lab ID: 925425011** Collected: 10/09/07 00:00 Received: 10/10/07 09:19 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
	Analytical Method: EPA 8260								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/16/07 00:56	108-10-1	
Naphthalene	ND	ug/L	1.0	0.24	1		10/16/07 00:56	91-20-3	
Propionitrile	ND	ug/L	20.0	3.6	1		10/16/07 00:56	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		10/16/07 00:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/16/07 00:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/16/07 00:56	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/16/07 00:56	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/16/07 00:56	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		10/16/07 00:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/16/07 00:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/16/07 00:56	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/16/07 00:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/16/07 00:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/16/07 00:56	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/16/07 00:56	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/16/07 00:56	75-01-4	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/16/07 00:56	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		10/16/07 00:56	95-47-6	
4-Bromofluorobenzene (S)	98	%	87-109		1		10/16/07 00:56	460-00-4	
Dibromofluoromethane (S)	108	%	85-115		1		10/16/07 00:56	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	79-120		1		10/16/07 00:56	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		10/16/07 00:56	2037-26-5	

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QUALITY CONTROL DATA

Project: Jackson Co Landfill 2040.12
Pace Project No.: 925425

QC Batch: WETA/1349 Analysis Method: SM 4500-CN-E
QC Batch Method: SM 4500-CN-E Analysis Description: 4500CNE Cyanide, Total
Associated Lab Samples: 925425001, 925425002, 925425003, 925425004, 925425005, 925425006, 925425007, 925425008

METHOD BLANK: 26503
Associated Lab Samples: 925425001, 925425002, 925425003, 925425004, 925425005, 925425006, 925425007, 925425008

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Cyanide	mg/L	ND	0.0050	

LABORATORY CONTROL SAMPLE: 26504

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.12	115	80-120	

MATRIX SPIKE SAMPLE: 26505

Parameter	Units	925267001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	0.085	.1	0.089	4	75-125	M3

SAMPLE DUPLICATE: 26506

Parameter	Units	925295001 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide	mg/L	ND	ND	0	20	

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QUALITY CONTROL DATA

Project: Jackson Co Landfill 2040.12
Pace Project No.: 925425

QC Batch: MERP/1100
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Associated Lab Samples: 925425001, 925425002

METHOD BLANK: 27121
Associated Lab Samples: 925425001, 925425002

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

LABORATORY CONTROL SAMPLE: 27122

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

MATRIX SPIKE SAMPLE: 27123

Parameter	Units	925372001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	0.72	2.5	0.90	7	75-125	M0

SAMPLE DUPLICATE: 27124

Parameter	Units	925372002 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury	ug/L	368	390	6	25	

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QUALITY CONTROL DATA

Project: Jackson Co Landfill 2040.12
Pace Project No.: 925425

QC Batch: MSV/1528 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 925425001, 925425002, 925425003, 925425004, 925425005, 925425006, 925425007, 925425008, 925425011

METHOD BLANK: 27778
Associated Lab Samples: 925425001, 925425002, 925425003, 925425004, 925425005, 925425006, 925425007, 925425008, 925425011

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	
1,1,1-Trichloroethane	ug/L	ND	1.0	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	
1,1,2-Trichloroethane	ug/L	ND	1.0	
1,1-Dichloroethane	ug/L	ND	1.0	
1,1-Dichloroethene	ug/L	ND	1.0	
1,1-Dichloropropene	ug/L	ND	1.0	
1,2,3-Trichloropropane	ug/L	ND	1.0	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	
1,2-Dibromo-3-chloropropane	ug/L	ND	3.0	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	
1,2-Dichlorobenzene	ug/L	ND	1.0	
1,2-Dichloroethane	ug/L	ND	1.0	
1,2-Dichloropropane	ug/L	ND	1.0	
1,3-Dichlorobenzene	ug/L	ND	1.0	
1,3-Dichloropropane	ug/L	ND	1.0	
1,4-Dichlorobenzene	ug/L	ND	1.0	
2,2-Dichloropropane	ug/L	ND	1.0	
2-Butanone (MEK)	ug/L	ND	5.0	
2-Hexanone	ug/L	ND	5.0	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	
Acetone	ug/L	ND	25.0	
Acetonitrile	ug/L	ND	50.0	
Acrolein	ug/L	ND	10.0	
Acrylonitrile	ug/L	ND	10.0	
Allyl chloride	ug/L	ND	2.0	
Benzene	ug/L	ND	1.0	
Bromochloromethane	ug/L	ND	1.0	
Bromodichloromethane	ug/L	ND	1.0	
Bromoform	ug/L	ND	1.0	
Bromomethane	ug/L	ND	5.0	
Carbon disulfide	ug/L	ND	2.0	
Carbon tetrachloride	ug/L	ND	1.0	
Chlorobenzene	ug/L	ND	1.0	
Chloroethane	ug/L	ND	1.0	
Chloroform	ug/L	ND	1.0	
Chloromethane	ug/L	ND	1.0	
Chloroprene	ug/L	ND	5.0	
cis-1,2-Dichloroethene	ug/L	ND	1.0	
cis-1,3-Dichloropropene	ug/L	ND	1.0	
Dibromochloromethane	ug/L	ND	1.0	
Dibromomethane	ug/L	ND	1.0	
Dichlorodifluoromethane	ug/L	ND	1.0	

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QUALITY CONTROL DATA

Project: Jackson Co Landfill 2040.12
Pace Project No.: 925425

METHOD BLANK: 27778

Associated Lab Samples: 925425001, 925425002, 925425003, 925425004, 925425005, 925425006, 925425007, 925425008, 925425011

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Ethyl methacrylate	ug/L	ND	1.0	
Ethylbenzene	ug/L	ND	1.0	
Iodomethane	ug/L	ND	5.0	
Isobutanol	ug/L	ND	100	
m&p-Xylene	ug/L	ND	2.0	
Methacrylonitrile	ug/L	ND	10.0	
Methyl methacrylate	ug/L	ND	2.0	
Methylene Chloride	ug/L	ND	2.0	
Naphthalene	ug/L	ND	1.0	
o-Xylene	ug/L	ND	1.0	
Propionitrile	ug/L	ND	20.0	
Styrene	ug/L	ND	1.0	
Tetrachloroethene	ug/L	ND	1.0	
Toluene	ug/L	ND	1.0	
trans-1,2-Dichloroethene	ug/L	ND	1.0	
trans-1,3-Dichloropropene	ug/L	ND	1.0	
trans-1,4-Dichloro-2-butene	ug/L	ND	1.0	
Trichloroethene	ug/L	ND	1.0	
Trichlorofluoromethane	ug/L	ND	1.0	
Vinyl acetate	ug/L	ND	2.0	
Vinyl chloride	ug/L	ND	1.0	
1,2-Dichloroethane-d4 (S)	%	100	79-120	
4-Bromofluorobenzene (S)	%	100	87-109	
Dibromofluoromethane (S)	%	105	85-115	
Toluene-d8 (S)	%	101	70-120	

LABORATORY CONTROL SAMPLE: 27779

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	58.9	118	83-125	
1,1,1-Trichloroethane	ug/L	50	63.8	128	80-129	
1,1,2,2-Tetrachloroethane	ug/L	50	52.6	105	73-127	
1,1,2-Trichloroethane	ug/L	50	56.8	114	77-123	
1,1-Dichloroethane	ug/L	50	54.0	108	76-129	
1,1-Dichloroethene	ug/L	50	69.0	138	78-146	
1,1-Dichloropropene	ug/L	50	62.8	126	79-134	
1,2,3-Trichloropropane	ug/L	50	55.6	111	72-125	
1,2,4-Trichlorobenzene	ug/L	50	56.9	114	68-127	
1,2-Dibromo-3-chloropropane	ug/L	50	52.7	105	65-128	
1,2-Dibromoethane (EDB)	ug/L	50	50.7	101	81-125	
1,2-Dichlorobenzene	ug/L	50	57.9	116	82-126	
1,2-Dichloroethane	ug/L	50	60.5	121	72-126	
1,2-Dichloropropane	ug/L	50	59.6	119	80-127	
1,3-Dichlorobenzene	ug/L	50	55.7	111	82-124	
1,3-Dichloropropane	ug/L	50	55.8	112	79-124	

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QUALITY CONTROL DATA

Project: Jackson Co Landfill 2040.12
Pace Project No.: 925425

LABORATORY CONTROL SAMPLE: 27779

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	54.6	109	79-125	
2,2-Dichloropropane	ug/L	50	50.4	101	58-140	
2-Butanone (MEK)	ug/L	100	109	109	50-134	
2-Hexanone	ug/L	100	104	104	58-138	
4-Methyl-2-pentanone (MIBK)	ug/L	100	119	119	70-131	
Acetone	ug/L	100	112	112	50-146	
Acetonitrile	ug/L	500	556	111	66-124	
Acrolein	ug/L	250	344	138	55-143	
Acrylonitrile	ug/L	250	261	104	66-124	
Allyl chloride	ug/L	50	55.6	111	73-141	
Benzene	ug/L	50	60.2	120	78-128	
Bromochloromethane	ug/L	50	51.9	104	73-124	
Bromodichloromethane	ug/L	50	53.0	106	81-125	
Bromoform	ug/L	50	51.2	102	71-125	
Bromomethane	ug/L	50	60.3	121	50-150	
Carbon disulfide	ug/L	50	63.7	127	54-150	
Carbon tetrachloride	ug/L	50	62.7	125	81-137	
Chlorobenzene	ug/L	50	58.4	117	82-126	
Chloroethane	ug/L	50	57.9	116	69-140	
Chloroform	ug/L	50	52.3	105	77-129	
Chloromethane	ug/L	50	49.2	98	54-139	
Chloroprene	ug/L	50	52.4	105	71-142	
cis-1,2-Dichloroethene	ug/L	50	56.8	114	76-133	
cis-1,3-Dichloropropene	ug/L	50	53.6	107	76-127	
Dibromochloromethane	ug/L	50	51.0	102	77-125	
Dibromomethane	ug/L	50	55.6	111	77-125	
Dichlorodifluoromethane	ug/L	50	58.4	117	50-150	
Ethyl methacrylate	ug/L	50	51.7	103	73-129	
Ethylbenzene	ug/L	50	58.3	117	80-127	
Iodomethane	ug/L	100	150	150	65-172	
Isobutanol	ug/L	1000	1040	104	50-150	
m&p-Xylene	ug/L	100	117	117	82-127	
Methacrylonitrile	ug/L	500	599	120	70-128	
Methyl methacrylate	ug/L	50	51.2	102	79-122	
Methylene Chloride	ug/L	50	56.2	112	67-133	
Naphthalene	ug/L	50	49.4	99	52-136	
o-Xylene	ug/L	50	57.6	115	83-124	
Propionitrile	ug/L	500	582	116	65-129	
Styrene	ug/L	50	54.1	108	80-130	
Tetrachloroethene	ug/L	50	58.4	117	78-128	
Toluene	ug/L	50	59.5	119	76-126	
trans-1,2-Dichloroethene	ug/L	50	65.7	131	78-134	
trans-1,3-Dichloropropene	ug/L	50	52.0	104	75-125	
trans-1,4-Dichloro-2-butene	ug/L	50	55.3	111	51-140	
Trichloroethene	ug/L	50	60.0	120	79-127	
Trichlorofluoromethane	ug/L	50	58.4	117	76-148	
Vinyl acetate	ug/L	100	129	129	50-150	
Vinyl chloride	ug/L	50	63.6	127	67-143	

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Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: Jackson Co Landfill 2040.12
Pace Project No.: 925425

LABORATORY CONTROL SAMPLE: 27779

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%			102	79-120	
4-Bromofluorobenzene (S)	%			100	87-109	
Dibromofluoromethane (S)	%			104	85-115	
Toluene-d8 (S)	%			101	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 27780 27781

Parameter	Units	925425001 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	73.8	56.9	148	114	60-150	26	30	
Benzene	ug/L	6.8	50	50	66.2	52.3	119	91	74-136	23	30	
Chlorobenzene	ug/L	ND	50	50	63.0	50.5	126	101	79-135	22	30	
Toluene	ug/L	0.68J	50	50	59.2	46.6	117	92	73-131	24	30	
Trichloroethene	ug/L	1.7	50	50	60.4	47.6	117	92	73-131	24	30	
1,2-Dichloroethane-d4 (S)	%						102	103	79-120			
4-Bromofluorobenzene (S)	%						99	99	87-109			
Dibromofluoromethane (S)	%						106	107	85-115			
Toluene-d8 (S)	%						101	100	70-120			

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QUALITY CONTROL DATA

Project: Jackson Co Landfill 2040.12
Pace Project No.: 925425

QC Batch: WET/1727 — Analysis Method: SM 4500-S2D
QC Batch Method: SM 4500-S2D — Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 925425001, 925425002, 925425003, 925425004, 925425005, 925425006, 925425007, 925425008

METHOD BLANK: 28265
Associated Lab Samples: 925425001, 925425002, 925425003, 925425004, 925425005, 925425006, 925425007, 925425008

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Sulfide	mg/L	ND	0.050	

LABORATORY CONTROL SAMPLE: 28266

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	.5	0.48	97	90-110	

MATRIX SPIKE SAMPLE: 28267

Parameter	Units	925425001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	ND	.5	0.54	102	75-125	

SAMPLE DUPLICATE: 28268

Parameter	Units	925425002 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide	mg/L	ND	ND	.3	20	

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QUALITY CONTROL DATA

Project: Jackson Co Landfill 2040.12
Pace Project No.: 925425

QC Batch: MPRP/1313 Analysis Method: EPA 6010 GW North Carolina
QC Batch Method: EPA 3010 Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 925425001, 925425002, 925425003, 925425004, 925425005, 925425006, 925425007, 925425008

METHOD BLANK: 28793
Associated Lab Samples: 925425001, 925425002, 925425003, 925425004, 925425005, 925425006, 925425007, 925425008

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Antimony	ug/L	ND	5.0	
Arsenic	ug/L	ND	5.0	
Barium	ug/L	ND	5.0	
Beryllium	ug/L	ND	1.0	
Cadmium	ug/L	ND	1.0	
Chromium	ug/L	ND	5.0	
Cobalt	ug/L	ND	5.0	
Copper	ug/L	ND	5.0	
Lead	ug/L	ND	5.0	
Nickel	ug/L	ND	5.0	
Selenium	ug/L	ND	10.0	
Silver	ug/L	ND	5.0	
Thallium	ug/L	ND	5.5	
Tin	ug/L	ND	5.0	
Vanadium	ug/L	0.21J	5.0	
Zinc	ug/L	2.6J	10.0	

LABORATORY CONTROL SAMPLE: 28794

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	498	100	80-120	
Arsenic	ug/L	500	500	100	80-120	
Barium	ug/L	500	494	99	80-120	
Beryllium	ug/L	500	514	103	80-120	
Cadmium	ug/L	500	506	101	80-120	
Chromium	ug/L	500	506	101	80-120	
Cobalt	ug/L	500	503	101	80-120	
Copper	ug/L	500	495	99	80-120	
Lead	ug/L	500	506	101	80-120	
Nickel	ug/L	500	507	101	80-120	
Selenium	ug/L	500	499	100	80-120	
Silver	ug/L	250	253	101	80-120	
Thallium	ug/L	500	510	102	80-120	
Tin	ug/L	500	512	102	80-120	
Vanadium	ug/L	500	499	100	80-120	
Zinc	ug/L	500	497	99	80-120	

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QUALITY CONTROL DATA

Project: Jackson Co Landfill 2040.12
Pace Project No.: 925425

MATRIX SPIKE SAMPLE: 28795

Parameter	Units	925425001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	640	128	75-125	M3
Arsenic	ug/L	ND	500	658	131	75-125	M3
Barium	ug/L	101	500	717	123	75-125	
Beryllium	ug/L	ND	500	652	130	75-125	M3
Cadmium	ug/L	9.4	500	649	128	75-125	M3
Chromium	ug/L	ND	500	674	135	75-125	M3
Cobalt	ug/L	72.9	500	721	130	75-125	M3
Copper	ug/L	15.0	500	651	127	75-125	M3
Lead	ug/L	ND	500	633	127	75-125	M3
Nickel	ug/L	8.9	500	662	131	75-125	M3
Selenium	ug/L	ND	500	649	129	75-125	M3
Silver	ug/L	ND	250	275	110	75-125	
Thallium	ug/L	3.2J	500	593	118	75-125	
Tin	ug/L	ND	500	651	130	75-125	M3
Vanadium	ug/L	0.37J	500	650	130	75-125	M3
Zinc	ug/L	37.1	500	675	128	75-125	M3

SAMPLE DUPLICATE: 28796

Parameter	Units	925425002 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND	0		
Arsenic	ug/L	ND	ND	71		
Barium	ug/L	75.7	75.5	.3		
Beryllium	ug/L	ND	ND	0		
Cadmium	ug/L	ND	ND	49		
Chromium	ug/L	0.42J	0.49J	15		
Cobalt	ug/L	151	151	0		
Copper	ug/L	ND	ND	0		
Lead	ug/L	ND	ND	200		
Nickel	ug/L	12.6	12.9	2		
Selenium	ug/L	5.5J	3.9J	34		
Silver	ug/L	ND	ND	0		
Thallium	ug/L	3.1J	ND	34		
Tin	ug/L	4.1J	4.8J	15		
Vanadium	ug/L	ND	ND	0		
Zinc	ug/L	22.7	22.6	.4		

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QUALITY CONTROL DATA

Project: Jackson Co Landfill 2040.12
Pace Project No.: 925425

QC Batch: MERP/1113 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 925425003, 925425004, 925425005, 925425006, 925425007, 925425008

METHOD BLANK: 29893
Associated Lab Samples: 925425003, 925425004, 925425005, 925425006, 925425007, 925425008

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

LABORATORY CONTROL SAMPLE: 29894

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.5	102	80-120	

MATRIX SPIKE SAMPLE: 29895

Parameter	Units	925425003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	0.34	2.5	2.0	68	75-125	M0

SAMPLE DUPLICATE: 29896

Parameter	Units	925425004 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury	ug/L	0.43	0.40	6	25	

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QUALIFIERS

Project: Jackson Co Landfill 2040.12
Pace Project No.: 925425

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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LABORATORIES

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

ANALYTE QUALIFIERS

M0	Matrix spike recovery was outside laboratory control limits.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.

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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

1139616

Section A Required Client Information:

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

Section B Required Project Information:

Report To: Stu Ryman
Copy To:
Purchase Order No.:
Project Name: Jackson Co. Landfill
Project Number: 2040.12

Section C Invoice Information:

Attention: Judith Robertson
Company Name: Altamont
Address: Same
Pace Quote Reference:
Pace Project Manager: Lorri Patton
Pace Profile #:

REGULATORY AGENCY: NPDES; X GROUND WATER; DRINKING WATER; UST; RCRA; OTHER

Site Location STATE: NC

Section D Required Client Information

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N) Appendix II Metals	App II VOC 8260 low level	App II Herb 8151	Sulfide 376.2	Cyanide 335.3	VOC 524.2	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-01	WT			12:25	10-9	~~[illegible]~~	16	8	2		1	3	2				X	X	X	X	X			925425001
2	MW-02	WT				10-9	16:37	15	8	2		1	3	2				X	X	X	X	X			-002
3	MW-03	WT			17:26	10-9	~~[illegible]~~	16	8	2		1	3	2				X	X	X	X	X			-003
4	MW-04	WT				10-9	14:41	16	8	2		1	3	2				X	X	X	X	X			-004
5	MW-05	WT				10-9	18:14	17	8	2		1	3	2				X	X	X	X	X			-005
6	MW-06	WT				10-9	13:13	16	8	2		1	3	2				X	X	X	X	X			-006
7	SW-01	WT				10-9	15:05	21	8	2		1	3	2				X	X	X	X	X			-007
8	SW-02	WT				10-9	15:34	21	8	2		1	3	2				X	X	X	X	X			-008
9	DW-01	WT				10-9	10:57	15	8	2		1	3	2				X	X	X	X	X	X		-009
10	DW-02	WT				10-9	11:28	15	8	2		1	3	2				X	X	X	X	X	X		-010
11	TRIP BLANK	WT		LAB															X						-011
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	Jon Hazinski	10-10-07	9:19	Lorri Patton	10/10/07	0919

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

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jon Hazinski

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 10-10-07

*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

925425

This report includes page 1 to 9.

Analytical Environmental Services, Inc.

Date: *08-Nov-07*

CLIENT: Pace Analytical Services, Inc.
Lab Order: 0710604
Project: 925425
Lab ID: 0710604-001

Client Sample ID: 925425001 MW-01
Collection Date: 10/9/2007 12:25:00 PM
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
CHLORINATED HERBICIDES, APPENDIX II LIST			**SW8151A**	**(SW3510B)**			Analyst: **EI**	
2,4,5-T	BRL		0.50	2.0	µg/L	92318	1	10/16/2007 1:34:00 P
2,4,5-TP (Silvex)	BRL		0.46	2.0	µg/L	92318	1	10/16/2007 1:34:00 P
2,4-D	BRL		0.41	2.0	µg/L	92318	1	10/16/2007 1:34:00 P
Dinoseb	BRL		0.70	5.0	µg/L	92318	1	10/16/2007 1:34:00 P
Pentachlorophenol	BRL		0.084	1.0	µg/L	92318	1	10/16/2007 1:34:00 P
Surr: DCAA	93.3		0	43-145	%REC	92318	1	10/16/2007 1:34:00 P

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
P	NELAC analyte certification pending	Rpt Limit	Reporting Limit
S	Spike Recovery outside accepted recovery limits	BRL	Not detected at MDL

Analytical Environmental Services, Inc.

Date: *08-Nov-07*

CLIENT: Pace Analytical Services, Inc.
Lab Order: 0710604
Project: 925425
Lab ID: 0710604-002

Client Sample ID: 925425002 MW-02
Collection Date: 10/9/2007 4:37:00 PM
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
CHLORINATED HERBICIDES, APPENDIX II LIST			**SW8151A**	**(SW3510B)**			Analyst: **EI**	
2,4,5-T	BRL		0.50	2.0	µg/L	92318	1	10/16/2007 2:02:00 P
2,4,5-TP (Silvex)	BRL		0.46	2.0	µg/L	92318	1	10/16/2007 2:02:00 P
2,4-D	BRL		0.41	2.0	µg/L	92318	1	10/16/2007 2:02:00 P
Dinoseb	BRL		0.70	5.0	µg/L	92318	1	10/16/2007 2:02:00 P
Pentachlorophenol	BRL		0.084	1.0	µg/L	92318	1	10/16/2007 2:02:00 P
Surr: DCAA	66.3		0	43-145	%REC	92318	1	10/16/2007 2:02:00 P

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
P	NELAC analyte certification pending	Rpt Limit	Reporting Limit
S	Spike Recovery outside accepted recovery limits	BRL	Not detected at MDL

Analytical Environmental Services, Inc.

Date: *08-Nov-07*

CLIENT: Pace Analytical Services, Inc.
Lab Order: 0710604
Project: 925425
Lab ID: 0710604-003

Client Sample ID: 925425003 MW-03
Collection Date: 10/9/2007 5:26:00 PM
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
CHLORINATED HERBICIDES, APPENDIX II LIST			**SW8151A**	**(SW3510B)**			Analyst: **EI**	
2,4,5-T	BRL		0.50	2.0	µg/L	92318	1	10/16/2007 2:31:00 P
2,4,5-TP (Silvex)	BRL		0.46	2.0	µg/L	92318	1	10/16/2007 2:31:00 P
2,4-D	BRL		0.41	2.0	µg/L	92318	1	10/16/2007 2:31:00 P
Dinoseb	BRL		0.70	5.0	µg/L	92318	1	10/16/2007 2:31:00 P
Pentachlorophenol	BRL		0.084	1.0	µg/L	92318	1	10/16/2007 2:31:00 P
Surr: DCAA	70.8		0	43-145	%REC	92318	1	10/16/2007 2:31:00 P

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
P	NELAC analyte certification pending	Rpt Limit	Reporting Limit
S	Spike Recovery outside accepted recovery limits	BRL	Not detected at MDL

Analytical Environmental Services, Inc.

Date: *08-Nov-07*

CLIENT: Pace Analytical Services, Inc.
Lab Order: 0710604
Project: 925425
Lab ID: 0710604-004

Client Sample ID: 925425004 MW-04
Collection Date: 10/9/2007 2:41:00 PM
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
CHLORINATED HERBICIDES, APPENDIX II LIST			**SW8151A**	**(SW3510B)**			Analyst: **EI**	
2,4,5-T	BRL		0.50	2.0	µg/L	92318	1	10/16/2007 2:59:00 P
2,4,5-TP (Silvex)	BRL		0.46	2.0	µg/L	92318	1	10/16/2007 2:59:00 P
2,4-D	BRL		0.41	2.0	µg/L	92318	1	10/16/2007 2:59:00 P
Dinoseb	BRL		0.70	5.0	µg/L	92318	1	10/16/2007 2:59:00 P
Pentachlorophenol	BRL		0.084	1.0	µg/L	92318	1	10/16/2007 2:59:00 P
Surr: DCAA	112		0	43-145	%REC	92318	1	10/16/2007 2:59:00 P

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
P	NELAC analyte certification pending	Rpt Limit	Reporting Limit
S	Spike Recovery outside accepted recovery limits	BRL	Not detected at MDL

Analytical Environmental Services, Inc.

Date: *08-Nov-07*

CLIENT: Pace Analytical Services, Inc.
Lab Order: 0710604
Project: 925425
Lab ID: 0710604-005

Client Sample ID: 925425005 MW-05
Collection Date: 10/9/2007 6:14:00 PM
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
CHLORINATED HERBICIDES, APPENDIX II LIST			**SW8151A**	**(SW3510B)**			Analyst: **EI**	
2,4,5-T	BRL		0.50	2.0	µg/L	92318	1	10/16/2007 3:28:00 P
2,4,5-TP (Silvex)	BRL		0.46	2.0	µg/L	92318	1	10/16/2007 3:28:00 P
2,4-D	BRL		0.41	2.0	µg/L	92318	1	10/16/2007 3:28:00 P
Dinoseb	BRL		0.70	5.0	µg/L	92318	1	10/16/2007 3:28:00 P
Pentachlorophenol	BRL		0.084	1.0	µg/L	92318	1	10/16/2007 3:28:00 P
Surr: DCAA	90.1		0	43-145	%REC	92318	1	10/16/2007 3:28:00 P

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
P	NELAC analyte certification pending	Rpt Limit	Reporting Limit
S	Spike Recovery outside accepted recovery limits	BRL	Not detected at MDL

Analytical Environmental Services, Inc.

Date: *08-Nov-07*

CLIENT: Pace Analytical Services, Inc.
Lab Order: 0710604
Project: 925425
Lab ID: 0710604-006

Client Sample ID: 925425006 MW-06
Collection Date: 10/9/2007 1:13:00 PM
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
CHLORINATED HERBICIDES, APPENDIX II LIST			**SW8151A**	**(SW3510B)**			Analyst: **EI**	
2,4,5-T	BRL		0.50	2.0	µg/L	92318	1	10/16/2007 3:57:00 P
2,4,5-TP (Silvex)	BRL		0.46	2.0	µg/L	92318	1	10/16/2007 3:57:00 P
2,4-D	BRL		0.41	2.0	µg/L	92318	1	10/16/2007 3:57:00 P
Dinoseb	BRL		0.70	5.0	µg/L	92318	1	10/16/2007 3:57:00 P
Pentachlorophenol	BRL		0.084	1.0	µg/L	92318	1	10/16/2007 3:57:00 P
Surr: DCAA	68.9		0	43-145	%REC	92318	1	10/16/2007 3:57:00 P

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
P	NELAC analyte certification pending	Rpt Limit	Reporting Limit
S	Spike Recovery outside accepted recovery limits	BRL	Not detected at MDL

Analytical Environmental Services, Inc.

Date: *08-Nov-07*

CLIENT: Pace Analytical Services, Inc.
Lab Order: 0710604
Project: 925425
Lab ID: 0710604-007

Client Sample ID: 925425007 SW-01
Collection Date: 10/9/2007 3:05:00 PM
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
CHLORINATED HERBICIDES, APPENDIX II LIST			**SW8151A**	**(SW3510B)**			Analyst: **EI**	
2,4,5-T	BRL		0.50	2.0	µg/L	92318	1	10/16/2007 11:11:00 A
2,4,5-TP (Silvex)	BRL		0.46	2.0	µg/L	92318	1	10/16/2007 11:11:00 A
2,4-D	BRL		0.41	2.0	µg/L	92318	1	10/16/2007 11:11:00 A
Dinoseb	BRL		0.70	5.0	µg/L	92318	1	10/16/2007 11:11:00 A
Pentachlorophenol	BRL		0.084	1.0	µg/L	92318	1	10/16/2007 11:11:00 A
Surr: DCAA	84.3		0	43-145	%REC	92318	1	10/16/2007 11:11:00 A

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
P	NELAC analyte certification pending	Rpt Limit	Reporting Limit
S	Spike Recovery outside accepted recovery limits	BRL	Not detected at MDL

Analytical Environmental Services, Inc.

Date: *08-Nov-07*

CLIENT: Pace Analytical Services, Inc.
Lab Order: 0710604
Project: 925425
Lab ID: 0710604-008

Client Sample ID: 925425008 SW-02
Collection Date: 10/9/2007 3:34:00 PM
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
CHLORINATED HERBICIDES, APPENDIX II LIST			**SW8151A**	**(SW3510B)**			Analyst: **EI**	
2,4,5-T	BRL		0.50	2.0	µg/L	92318	1	10/16/2007 4:25:00 P
2,4,5-TP (Silvex)	BRL		0.46	2.0	µg/L	92318	1	10/16/2007 4:25:00 P
2,4-D	BRL		0.41	2.0	µg/L	92318	1	10/16/2007 4:25:00 P
Dinoseb	BRL		0.70	5.0	µg/L	92318	1	10/16/2007 4:25:00 P
Pentachlorophenol	BRL		0.084	1.0	µg/L	92318	1	10/16/2007 4:25:00 P
Surr: DCAA	80.6		0	43-145	%REC	92318	1	10/16/2007 4:25:00 P

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
P	NELAC analyte certification pending	Rpt Limit	Reporting Limit
S	Spike Recovery outside accepted recovery limits	BRL	Not detected at MDL

Research & Analytical Laboratories, Inc.

Analytical/Process Consultations

RESEARCH & ANALYTICAL LABS. SIDNEY L. CHAMPION NC #37701 DIRECTOR CERTIFIED ANALYSIS

Volatile Organic Analysis from Selected Sampling Location Identified as 925425
(A Pace Analytical Services, Inc. Project #925425, collected 09 October 2007)

I. Volatile Organics EPA Method 524.2 Parameter	Quantitation Limit (mg/L)	DW-01 925425009 (mg/L)	DW-02 925425010 (mg/L)	MDL
EDB	0.0005	BQL	BQL	0.00010
1,1-Dichloroethane	0.0005	BQL	BQL	0.00005
2,2-Dichloropropane	0.0005	BQL	BQL	0.00007
Chloroform	0.0005	BQL	BQL	0.00003
1,1,1-Trichloroethane	0.0005	BQL	BQL	0.00005
1,1-Dichloropropene	0.0005	BQL	BQL	0.00003
Carbon Tetrachloride	0.0005	BQL	BQL	0.00005
Benzene	0.0005	BQL	BQL	0.00003
1,2-Dichloroethane	0.0005	BQL	BQL	0.00005
Trichloroethene	0.0005	BQL	BQL	0.00004
1,2-Dichloropropane	0.0005	BQL	BQL	0.00006
Dibromomethane	0.0005	BQL	BQL	0.00004
Toluene	0.0005	BQL	BQL	0.00004
1,1,2-Trichloroethane	0.0005	BQL	BQL	0.00011
1,3-Dichloropropane	0.0005	BQL	BQL	0.00008
Tetrachloroethene	0.0005	BQL	BQL	0.00006
1,1,1,2-Tetrachloroethane	0.0005	BQL	BQL	0.00008
1,1,2,2-Tetrachloroethane	0.0005	BQL	BQL	0.00006
1,2,3-Trichloropropane	0.0005	BQL	BQL	0.00008
Hexachlorobutadiene	0.0005	BQL	BQL	0.00007
Bromobenzene	0.0005	BQL	BQL	0.00003
Ethylbenzene	0.0005	BQL	BQL	0.00003
Styrene	0.0005	BQL	BQL	0.00003
Bromoform	0.0005	BQL	BQL	0.00016
p-Isopropyltoluene	0.0005	BQL	BQL	0.00006
N-Butylbenzene	0.0005	BQL	BQL	0.00006
Naphthalene	0.0005	BQL	BQL	0.00010
M-Xylene	0.0005	BQL	BQL	0.00006
1,3,5-Trimethylbenzene	0.0005	BQL	BQL	0.00003
1,2,4-Trimethylbenzene	0.0005	BQL	BQL	0.00007
1,2,4-Trichlorobenzene	0.0005	BQL	BQL	0.00006
1,2,3-Trichlorobenzene	0.0005	BQL	BQL	0.00008
Chlorobenzene	0.0005	BQL	BQL	0.00003
2-Chlorotoluene	0.0005	BQL	BQL	0.00008
4-Chlorotoluene	0.0005	BQL	BQL	0.00003
Tert-Butylbenzene	0.0005	BQL	BQL	0.00005
Sec-Butylbenzene	0.0005	BQL	BQL	0.00005
1,4-Dichlorobenzene	0.0005	BQL	BQL	0.00004
1,2-Dichlorobenzene	0.0005	BQL	BQL	0.00005
Total Xylenes	0.0005	BQL	BQL	0.00010
I-Propylbenzene	0.0005	BQL	BQL	0.00003
N-Propylbenzene	0.0005	BQL	BQL	0.00003
1,3-Dichlorobenzene	0.0005	BQL	BQL	0.00003
Dibromochloromethane	0.0005	BQL	BQL	0.00007
Dichlorodifluoromethane	0.0005	BQL	BQL	0.00014
Chloromethane	0.0005	BQL	BQL	0.00005
Vinyl Chloride	0.0005	BQL	BQL	0.00008
Bromomethane	0.0005	BQL	BQL	0.00014
Chloroethane	0.0005	BQL	BQL	0.00018
Trichlorofluoromethane	0.0005	BQL	BQL	0.00011
1,1-Dichloroethene	0.0005	BQL	BQL	0.00013
Methylene Chloride	0.0005	BQL	BQL	0.00010
Trans-1,2-Dichloroethene	0.0005	BQL	BQL	0.00005
Cis-1,2-Dichloroethene	0.0005	BQL	BQL	0.00006
Bromodichloromethane	0.0005	BQL	BQL	0.00005
Bromochloromethane	0.0005	BQL	BQL	0.00028
Cis-1,3-Dichloropropene	0.0005	BQL	BQL	0.00003
Trans-1,3-Dichloropropene	0.0005	BQL	BQL	0.00005
Dilution Factor		1	1	
Sample Number		601363	601364	
Sample Date		10/09/07	10/09/07	
Sample Time		1057	1128	
Analyzed Date		10/16/07	10/17/07	
Analyzed Time		2026	2321	

BQL = Below Quantitation Limit

(mg/L) = milligrams per Liter = parts per million (ppm)

Appendix C
Summary of *t*-Test Results
Jackson County Municipal Solid Waste Landfill
Jackson County, North Carolina

October 9, 2007

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			
Arsenic	50	NE[5]	none
Barium	2,000	NE[5]	none
Beryllium	NE[5]	4	none
Cadmium	1.75	NE[5]	none
Chromium	50	NE[5]	none
Cobalt	NE[5]	70	**MW-02, MW-03, MW-04, MW-05**
Copper	1,000	NE[5]	none
Lead	15	NE[5]	none
Mercury	1.05	NE[5]	none
Nickel	100	NE[5]	none
Selenium	50	NE[5]	none
Thallium	NE[5]	0.28	N/V[6]
Tin	NE[5]	NE[5]	N/A[7]
Vanadium	NE[5]	3.5	N/V[6]
Zinc	1,050	NE[5]	none

Appendix C
Summary of *t*-Test Results
Jackson County Municipal Solid Waste Landfill
Jackson County, North Carolina

October 9, 2007

Constituent	Groundwater Quality Standard[1]		Average Concentration Significantly Greater than the Groundwater Quality Standard[4]
	2L Standard[2] (µg/L)	GWPS[3] (µg/L)	
VOCs			
1,1-Dichloroethane	70	NE[5]	none
1,2-Dichlorobenzene	24	NE[5]	none
1,3-Dichlorobenzene	170	NE[5]	none
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[5]	none
Chloroethane	2,800	NE[5]	none
cis-1,2-Dichloroethene	70	NE[5]	none
Dichlorodiflurorometh ane	1,400	NE[5]	none
Methylene chloride	4.6	NE[5]	N/V[6]
Ethylbenzene	550	NE[5]	none
Naphthalene	21	NE[5]	none
Tetrachloroethene	0.7	NE[5]	N/V[6]
Toluene	1,000	NE[5]	none
Trichloroethene	3	NE[5]	none
Vinyl chloride	0	NE[6]	N/V[6]
m&p-xylene	NE[5]	NE[5]	N/A[7]
o-xylene	NE[5]	NE[5]	N/A[7]
Xylene (Total)	530	NE[5]	none

Appendix C
Summary of *t*-Test Results
Jackson County Municipal Solid Waste Landfill
Jackson County, North Carolina

October 9, 2007

Constituent	Groundwater Quality Standard[1]		Average Concentration Significantly Greater than the Groundwater Quality Standard[4]
	2L Standard[2] (µg/L)	GWPS[3] (µg/L)	

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 April 1, 2005.
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 whose average concentrations are statistically greater than the relevant groundwater quality standard are listed. "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 greater than the values used for non-detects, and all 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-2 since the sample sets contain only non-detect values and most of the value used for non-detects (i.e., the Method Reporting Limit) is 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) is greater than the groundwater quality standard.