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NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

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

Instructions:

- **Prepare one form for each individually monitored unit.**
- **Please type or print legibly.**
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i).
- 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:

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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 23-25, 2012

Environmental Status: (Check all that apply)

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

Type of data submitted: (Check all that apply)

☒ Groundwater monitoring data from monitoring wells
☒ Groundwater monitoring data from private water supply wells
☒ Leachate monitoring data
☒ Surface water monitoring data
☐ Methane gas monitoring data
☒ Corrective action data (specify) Natural Attenuation Parameters
☐ 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.

Robert Hastings, P.G. Project Geologist (828) 281-3350

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

Affix NC Licensed/ Professional Geologist Seal

Signature Date

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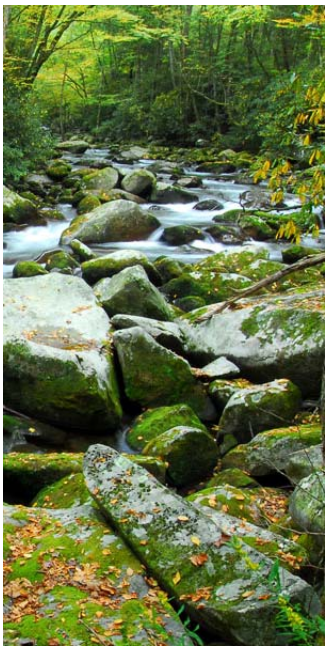
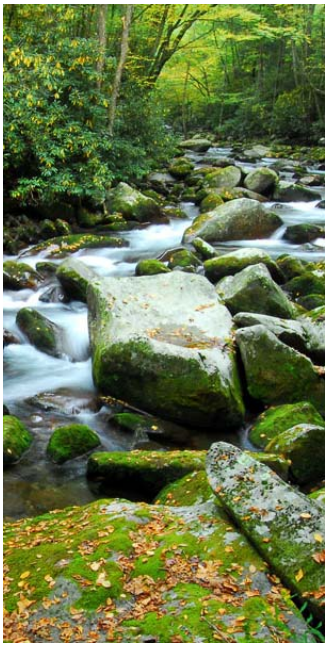
C-2185

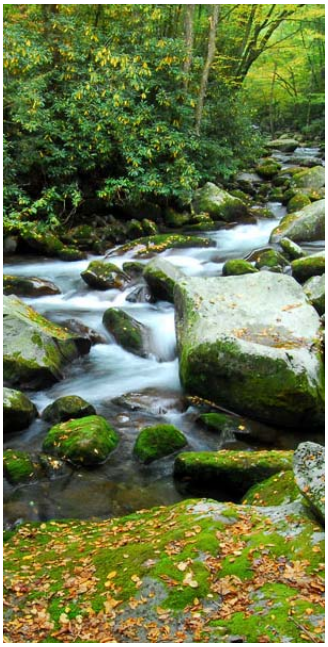
NC PE Firm License Number (if applicable effective May 1, 2009)

NORTH CAROLINA LICENSED SEAL 1908 GEOLOGIST Robert W. Hastings

Revised 6/2009







ALTAMONT ENVIRONMENTAL, INC.

ENGINEERING & HYDROGEOLOGY

Fall 2012 Semiannual Water Quality Monitoring Report

Jackson County Closed Municipal Solid Waste Landfill Permit # 50-02

February 27, 2013

Prepared for
Jackson County Solid Waste Department
Project Number 2040.3021

Prepared by
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Project Geologist

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1.0 Introduction

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

Over time, groundwater quality monitoring indicated persistent low-level exceedances of constituents in groundwater samples. In response to the continued exceedances of analyzed constituents, the following recent activities have occurred:

- September 7, 2010—An Assessment of Corrective Measures (ACM) report was submitted to the DENR DWM SWS. The ACM stated that volatile organic compounds (VOCs) and metals have been historically detected in excess of the North Carolina groundwater quality standards. Individual metals are not persistently detected over time and, historically, elevated turbidity levels in the samples may have affected the results. Therefore, the ACM suggested that the objective of the remedy focus on VOCs. The ACM evaluated several potential remedies.
- November 12, 2010—Based on the ACM report, the SWS requested a remedy to restore groundwater quality and effectively reduce contamination.
- May 13, 2011—Following advertisement and solicitation for public comment on the assessment of corrective measures, a Corrective Action Permit Modification application was submitted. The Corrective Action Permit Modification application indicated that the selected remedy was leachate removal and monitoring of natural attenuation parameters.
- June 2, 2011—The SWS approved the selected remedy. The SWS requested the preparation of a Corrective Action Plan (CAP).
- June 30, 2011—A CAP was submitted to the SWS (Altamont 2011). Based upon the property currently owned by Jackson County, relative to monitoring locations, the CAP established a compliance and review boundary for the closed landfill by referencing the North Carolina Administrative Code (NCAC), Title 15A, Subchapter 2L.0107. The CAP offered a remedy to restore groundwater quality and effectively reduce contamination for VOC constituents in excess of groundwater quality standards outside the compliance boundary. The CAP offered implementation of the remedy in a three-phase approach over a five-year time span. Implementation will utilize wells associated with an existing landfill gas extraction system. Dedicated pumps will be installed into each of the landfill gas extraction wells and leachate will be disposed of in the Tuckaseegee Water & Sewer Authority collection system. In addition to leachate extraction, groundwater natural attenuation parameters will be monitored and natural attenuation process will be evaluated.
- September 1, 2011—The CAP was approved by the SWS. After five years, the corrective actions discussed in the CAP shall be evaluated and reviewed. If VOC concentrations are not reduced, contingency plans may be required.
- June 30, 2012—The first phase of CAP implementation was completed. The leachate extraction pumps were acquired.
- September 1, 2012—The second phase of CAP implementation was completed. The leachate extraction pumps were installed in 10 Landfill Gas (LFG) extraction wells (Figure 2) and leachate extraction was initiated. The third and final phase of CAP implementation will involve the replacement of the temporary collection tank (from which the leachate is pumped and hauled for

disposal) with a permanent connection to the Tuckaseegee Water & Sewer Authority (tentatively scheduled for completion in July 2013).

This report serves as the second semiannual water quality monitoring report for 2012 and as a third report following approval of the Corrective Action Plan. This report provides an evaluation of groundwater and surface water quality and describes initiation of establishing monitoring of natural attenuation. The water quality monitoring network is presented on Figure 2. The generalized groundwater flow direction in the upper parts of the underlying aquifer system (Figure 3) is also provided in the report.

In addition to groundwater and surface water monitoring, this report includes VOC analysis of the extracted leachate grab sample collected from the holding tank.

The water samples are collected from selected monitoring points during the spring and again in the fall of each year. The analytical suites associated with the current sampling event (Table 1) are as follows:

- Appendix II VOCs
- Appendix II metals
- Appendix II chlorinated herbicides
- Appendix II semivolatile organic compounds (SVOCs)
- Appendix II polychlorinated biphenyls (PCBs)
- Cyanide and sulfide
- Monitored natural attenuation (MNA) parameters: alkalinity, biochemical oxygen demand (BOD), chemical oxygen demand (COD), chloride, carbon dioxide, cyanide, ethane, ethene, ferrous iron, hydrogen, methane, nitrate, sulfate, sulfide, total organic carbon (TOC), and volatile fatty acids

The fall 2012 sampling event was conducted and is being reported in accordance with requirements stipulated in the North Carolina DENR Solid Waste Management Rules codified under Title 15A Subchapter 13B of the North Carolina Administrative Code (15A NCAC 13B).

2.0 Semiannual Monitoring

2.1 Groundwater, Surface Water, and Leachate Sampling

The closed MSWLF monitoring wells (MW-01, MW-02, MW-03, MW-04, MW-05R, MW-06, and MW-07), surface water sample locations (SW-01 and SW-02), two domestic wells (DW-01 and DW-02), and one leachate sample (LT-01) location were sampled on October 23, 24 and 25, 2012 by Altamont Environmental, Inc. (Altamont). The full suite of groundwater and surface water analytical results is presented in the laboratory analysis report in Appendix B. The field parameter measurements and analytical results are tabulated in the Electronic Data Deliverable (EDD) in Appendix C.

The monitoring wells, surface water sample locations, two domestic wells, and leachate sample location are depicted on Figure 2.

2.1.1 Monitoring Well Purging and Sampling Methods

Prior to sampling the monitoring wells, the static water level was gauged in each well and an initial round of field parameters consisting of pH, specific conductivity, dissolved oxygen (DO), turbidity, temperature, and oxidation reduction potential (ORP) were measured. Static water level measurements and all field parameter data are included on the well sampling logs in Appendix A.

Altamont personnel used a bladder pump or disposable bailer at each monitoring well to purge the well and collect a groundwater sample. Total depth, condition of the casing, and the groundwater recharge rate determined the purging and sample collection method employed at each monitoring well.

2.1.1.1 Monitoring Wells

A bladder pump and low-flow techniques were used to purge and sample monitoring wells MW-01, MW-02, MW-03, MW-04, MW-05R, MW-06, and MW-07. The monitoring wells were purged using low-flow techniques in accordance with the procedures described in the US Environmental Protection Agency's (EPA's) *Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures* (EPA 1996). During purging, the pH, specific conductivity, DO, ORP, turbidity, and temperature were measured and recorded approximately every three minutes. Well purging continued until these parameters generally stabilized for three consecutive readings. The required stabilization criteria were as follows:

- pH values within +/- 0.1 unit
- Specific conductivity values within +/- 5 percent
- Temperature, DO, and turbidity values within +/- 10 percent
- ORP values within +/- 10 millivolts

Once the parameters had stabilized, a groundwater sample was collected using laboratory-supplied sample bottles by a technician wearing a new pair of nitrile gloves.

2.1.2 Surface Water Sampling Methods

Surface water samples SW-01 and SW-02 were collected at designated locations from the Tuckaseegee River, which is adjacent to the landfill to the southwest. Surface water sample SW-01 is representative of surface water quality upstream of the landfill; SW-02 is representative of surface water quality downstream from the landfill. One round of field parameters, consisting of temperature, pH, specific conductivity, DO, ORP, and turbidity, were measured and recorded at each surface-water sampling location prior to collecting

the sample (Appendix A). The surface water samples were collected in laboratory-provided sample containers by a technician wearing a new pair of nitrile gloves.

2.1.3 Leachate Sampling Methods

Dedicated bottom-loading, air-powered pumps, air pressure lines, and a leachate forcemain collection system were installed at the landfill in the summer and fall of 2012 in association with the approved Corrective Action Plan (CAP). The CAP is a phased approach to address historic groundwater detections. The dedicated pumps were installed into landfill gas extraction wells EW-1R, EW-2R, EW-3R, EW-4, EW-5, EW-6, EW-7, EW-8, EW-9, and EW-10 and remove leachate from the bottom of the well. The gas extraction wells locations are presented on Figure 2. Currently, the pumped leachate is collected into a temporary holding tank at the site. The collected leachate is pumped to the temporary collection tank and hauled to the nearby Tuckaseegee Water & Sewer Authority wastewater treatment facility. Eventually, the temporary collection tank will be replaced with a permanent connection to the Tuckaseegee Water & Sewer Authority.

The holding tank is situated to the northeast of the landfill adjacent to the existing landfill gas flare. A grab sample of leachate (LT-01) was collected by operating the leachate extraction pumps and taking a sample as the leachate entered the holding tank. One round of field parameters, consisting of temperature, pH, specific conductivity, DO, ORP, and turbidity, was measured and recorded after collecting the sample (Appendices A and C).

2.2 Sample Handling, Documentation, and Analysis

Field parameters and additional observations pertaining to the closed MSWLF sampling locations are provided on sampling logs (Appendix A). Following sample collection, each groundwater, surface water, and leachate sample was immediately placed on ice in a sample cooler for transport to Pace Analytical Laboratories (Pace), a North Carolina certified laboratory located in Asheville, North Carolina. The groundwater samples collected from the monitoring wells were analyzed for the following parameters:

- Appendix II metals using EPA Methods 6010, 6020, and 7470
- Appendix II VOCs using EPA Method 8260
- Appendix II chlorinated herbicides using EPA Method 8151
- Appendix II SVOCs using EPA Method 8270
- Appendix II PCBs using EPA Method 8082
- Natural Attenuation Parameters:
    - Alkalinity using Standard Method (SM) 2320B
    - BOD, 5-day using SM 5210 B
    - Carbon dioxide and hydrogen using Analytical Method (AM) AM20GAX
    - COD using SM 5220D
    - Chloride using SM 4500-Cl-E
    - Cyanide using SM 4500-CN-E
    - Ethane, ethane, and methane using RSK 175 Air Headspace
    - Ferrous iron using SM 3500-Fe D#4

- Fatty volatile acids using AM23G
- Nitrate using EPA Method 353.2
- Sulfide using SM 4500-S2D
- Sulfate using EPA Method 300.0
- Total organic carbon using SM 5310B

The surface water samples were analyzed for Appendix II parameters (as listed above), cyanide and sulfide. The leachate sample was analyzed for Appendix II VOCs parameters only. The domestic well samples were analyzed for VOCs only using EPA method 524.2.

Proper chain-of-custody documentation procedures were followed during collection and transportation of each sample (Appendix B). Three trip blank samples for quality control/quality assurance purposes were included in the sample coolers and analyzed for Appendix II VOCs. The reports of laboratory analysis are provided in Appendix B. Laboratory analyses performed on the samples are summarized in Table 1.

3.0 Findings

3.1 Analytical Results

The laboratory analytical results and field parameter data for the groundwater samples (from monitoring wells MW-01 through MW-07), surface water samples (SW-01 and SW-02), domestic well samples (DW-01 and DW-02), and leachate sample (LT-01) collected at the landfill are included in Appendices A and B in hard copy and also in Appendix C, in the Electronic Data Deliverable (EDD) format specified by the Solid Waste Section of the DWM in a memorandum dated October 27, 2006 and its addendum dated February 23, 2007.

As stipulated in the DWM documents referenced above, all laboratory analytical results were reported and appropriately qualified. Non-detections (non-detects), which are values reported by the laboratory as below method detection limits (MDLs), are tabulated on the Table 2 and EDD at MDL levels, and are qualified with the "U" qualifier. The MDL is the minimum concentration of a substance that can be measured and reported by a laboratory with 99 percent 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 DENR. The SWSL is defined as the lowest concentration of a constituent in a sample that can be quantitatively determined with suitable precision and accuracy. A "J" qualifier is used by the laboratory for parameters that are detected at estimated concentrations greater than the MDL but less than the laboratory's method reporting limit (MRL). The MRL is the minimum concentration of a target analyte that can be accurately determined by the referenced method. If the reported concentration is greater than the laboratory MDL and MRL but less than the SWSL, the analytical result is qualified as estimated, and is flagged with a "*J*" qualifier (italicized J-flag) by Altamont per SWS reporting requirements. In addition to non-detects, detected concentrations of constituents below the applicable SWSLs are included in Table 2. They are not, however, reported in the text of this report, unless they exceed their applicable North Carolina water quality standards (defined below).

Detected concentrations of constituents in groundwater samples were compared to the applicable North Carolina groundwater quality standards. For most constituents, this standard is the 2L standard, from 15A NCAC 2L.0202. Detected concentrations of analytes in groundwater with no established 2L standard were compared either to the interim maximum allowable concentrations (IMACs) for Class GA and GSA groundwater (in accordance with 15A NCAC 02L .0202 [c]) or Groundwater Protection Standards (GWPS), pursuant to 15A NCAC 13B.1634.

Detections of analytes in surface-water samples were compared to the surface-water quality standards described in 15A NCAC 2B (2B standards).

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

In the EDD (Appendix C) the identification of a well ("WELL ID") consists of the name of the well prefaced by the un-hyphenated permit number for the facility. For example, monitoring well MW-01 is identified on the tables as 5002-MW01. In the tables and figures, however, the identification of a well consists of the name of the well without the permit number associated with the facility.

3.1.1 Monitoring Wells Groundwater

Analytical results for groundwater samples collected from the monitoring wells are discussed in the following sections.

3.1.1.1 Appendix II Metals

Twelve metals were detected in the groundwater samples collected from one or more of the monitoring wells. Nine metals (barium, beryllium, chromium, cobalt, copper, lead, nickel, vanadium, and zinc) were detected in samples collected from one or more of the monitoring wells at concentrations at or above the associated SWSLs (Tables 2 and 3).

Six metals (barium, chromium, cobalt, lead, thallium, and vanadium) were detected in samples collected from one or more of the monitoring wells at concentrations above their associated groundwater quality standards (Tables 2 and 4).

3.1.1.2 Appendix II VOCs

Fifteen VOCs were detected in the groundwater samples collected from one or more of the monitoring wells (Table 2). Six VOCs (1,1-dichloroethane, 1,4-dichlorobenzene, benzene, chlorobenzene, cis-1,2-dichloroethene, and vinyl chloride) were detected at concentrations at or above their respective SWSLs (Tables 2 and 3).

Three VOCs (1,4-dichlorobenzene, benzene, and vinyl chloride) were detected at concentrations above their respective 2L standards (Table 4). Concentration-versus-time graphs were created for samples from those monitoring wells that had VOC concentrations over their 2L standards. The graphs are shown on Figures 4 through 14.

3.1.1.3 Appendix II SVOCs

Four SVOCs were detected in the groundwater samples collected from one or more of the monitoring wells (Table 2). One SVOC, 1,2-dichlorobenzene, was detected at the sample collected from well MW-05R at concentration above the respective SWSL (Table 3). None of the detected SVOCs were above respective groundwater quality standards.

3.1.1.4 Appendix II Herbicides and PCBs

Herbicides and PCBs were not detected in the collected groundwater samples.

3.1.1.5 Natural Attenuation Parameters

Groundwater samples collected from all monitoring wells were analyzed for additional parameters as follows: alkalinity, BOD, COD, carbon dioxide, chloride, cyanide, iron (ferrous), ethane, ethene, hydrogen, methane, nitrogen, sulfate, sulfide, TOC, and volatile fatty acids (Table 2). Cyanide, ethane, and sulfide were not detected in any of the samples. The remaining parameters were detected in one or more groundwater samples collected from the monitoring wells. The results will be used as part of the baseline results for the CAP and will be further evaluated in a separate report after four sampling events have been conducted.

3.1.1.6 Field Parameters

The pH readings were obtained on October 23 and 24, 2012 for the groundwater samples. The pH readings obtained from samples collected from wells MW-01 (5.43 Standard Units [SU]), MW-02 (5.63 SU), MW-03 (5.33 SU), MW-04 (5.27 SU), MW-5R (5.72 SU), MW-06 (5.33 SU) and MW-07 (5.72 SU) were outside the acceptable pH range of 6.5 to 8.5 SU specified in 15A NCAC 02L .0202[c] (Table 2).

The highest turbidity (531.6 nephelometric turbidity units [NTUs]) was measured in the groundwater sample collected from well MW-05R. The lowest turbidity was measured (0.00 NTU) in the groundwater sample collected from well MW-02 and MW-04.

3.1.2 Surface Water

The following sections summarize analytical results in the two surface water samples collected during the fall 2012 sampling event.

3.1.2.1 Appendix II Metals

Only barium was detected in both surface water samples collected from downstream and upstream surface water locations (Table 2). Concentrations of barium in both samples (SW-01 and SW-02) were found below the respective SWSL and 2B standard. No other metals were detected in surface water (Table 2).

3.1.2.2 Appendix II VOCs

VOCs were not detected in either of the surface water samples (SW-01 and SW-02).

3.1.2.3 Appendix II SVOCs

One semivolatile organic compound, 1,2-dichlorobenzene, was detected in both surface water sample locations at concentrations above the respective SWSL (Tables 2 and 3). The detected concentrations were below the respective 2B standard.

3.1.2.4 Appendix II Herbicides and PCBs

Herbicides and PCBs were not detected in the collected surface water samples.

3.1.2.5 Cyanide and Sulfide

Neither cyanide nor sulfide was detected in surface water samples.

3.1.2.6 Field Parameters

The pH readings were obtained on October 24, 2012 for surface water samples. The pH readings measured in both samples were within the 2B standard range established at 6.0 SU to 9.0 SU.

Turbidity was measured at 17.95 NTU in SW-01 and 8.46 NTU in SW-02 surface water samples. These results are below the 2B standard for turbidity which is established at 50 NTU for the receiving water in streams not designated as trout waters.

Dissolved oxygen was measured at 10.65 mg/L in SW-02 and 11.91 mg/L in SW-01. The 2B standard indicates “not less than 5.0 mg/L”.

2B standards do not exist for the remaining field parameters measured in surface water samples.

3.1.3 Leachate

The leachate sample (LT-01) was collected from the holding tank and analyzed for Appendix II VOCs only. Fourteen VOCs were detected in the collected sample (Table 2). Five VOCs (1,4-dichlorobenzene, benzene, ethylbenzene, toluene, and xylene) were found at concentrations above their respective SWSLs (Table 3).

3.1.4 Domestic Wells Groundwater

The domestic well groundwater samples (DW-01 and DW-02) were collected and analyzed for VOCs using EPA method 524.2. None of the analyzed VOCs was found at a concentration above its laboratory method detection limit. One of the field parameters, pH, was measured on October 25, 2012 and the readings for both groundwater samples were outside pH range of 6.5 to 8.5 SU established as the 2L standard.

4.0 Hydrogeology

Groundwater levels in the saprolite and bedrock is monitored at the closed MSWLF. Three bedrock monitoring wells, MW-01, MW-02, and MW-06, are located in the northern and northwestern portions of the site (Figure 3 and Table 5). Bedrock monitoring well (MW-07) is located to the southwest of the landfill (Figure 3). The fall 2012 water level data collected from these four bedrock wells were used to determine generalized bedrock groundwater flow direction which is to the southwest (Figure 3).

Monitoring wells MW-03, MW-04, and MW-05R (Figure 3), located in the central, southwest, and southern parts of the landfill, are in the saprolite (including partially weathered rock [PWR]) water-bearing zone). The fall 2012 water-level data collected from monitoring wells MW-03, MW-04 and MW-05R (Table 5) indicate that groundwater flow direction in the saprolite and PWR is also generally to the southwest, toward the Tuckaseegee River (Figure 3).

5.0 Summary

The second semiannual water quality monitoring event of 2012 was conducted on October 23, 24, and 25, 2012 at the Jackson County closed MSWLF. Tables 2, 3, and 4 of this report, Pace Reports of Laboratory Analysis (Appendix B), and the EDD (Appendix C) provide detailed analytical results and field data summarizing the groundwater and surface water quality at the landfill.

5.1 Groundwater Quality

5.1.1 Monitoring Wells

5.1.1.1 Metals

Six metals (barium, cobalt, chromium, lead, vanadium, and thallium) were detected at concentrations above their respective water quality standards (more specifically the IMACs for cobalt, thallium, and vanadium) in the groundwater samples collected from one or more of the monitoring wells during the fall 2012 water quality monitoring event.

Cobalt was detected in five groundwater samples at concentrations ranging between 6.5 *J* µg/L (the lowest) detected in MW-02 to 264 µg/L (the highest) in MW-01, exceeding its IMAC of 1 µg/L.

Thallium was detected in two groundwater samples (wells MW-01 and MW-06) at concentrations ranging between 0.65 *J* µg/L (the lowest) detected in MW-01 to 0.68 *J* µg/L (the highest) in MW-06, exceeding its IMAC of 0.2 µg/L. Historically, thallium has been present above its water quality standard in groundwater monitoring well MW-01.

Barium, chromium, cobalt, lead, and vanadium were detected in one groundwater sample (MW-05R) at concentrations above their established water quality standards.

The turbidity was measured at a range of 0.00 NTU (the lowest) detected in wells MW-02 and MW-04 to 531.60 NTUs (the highest) in well MW-05R.

5.1.1.2 VOCs

Three VOCs (1,4-dichlorobenzene, benzene, and vinyl chloride) were detected at concentrations above their respective 2L standards. Concentration-versus-time graphs were created for samples from those monitoring wells that had VOC concentrations over their 2L standards during fall 2012 sampling event. The graphs are shown on Figures 4 through 14.

1,4-dichlorobenzene was found in three groundwater samples (MW-01, MW-03, and MW-06) during the fall 2012 sampling event above the 2L standard. Review of the trend graphs (figures 4, 6 and 11) showing a slight increase in two monitoring wells (MW-03 and MW-06). During the spring 2012 sampling event, this VOC was detected in these wells below the respective groundwater quality standard (Figures 6 and 11). As shown on Figure 6, the concentration of 1,4-dichlorobenzene in MW-03 fluctuates in response to water levels, with higher concentrations measured when the water level is lower.

Benzene was detected in five groundwater samples (MW-01, MW-03, MW-05R, MW-06, and MW-07) during this sampling event, showing a slight increase in detected concentration in monitoring well MW-03 only (Figure 7). Overall the historical benzene concentration trends in MW-01 (Figure 5), MW-05R (Figure 9), MW-06 (Figure 12), and MW-07 (Figure 13) have been relatively stable and slightly over the 2L standard. Monitoring well MW-01 (Figure 6) has been showing a consistent decrease in benzene concentration since April 2007 until this sampling event, with the exception of a slight increase in concentration during April 2012 sampling event.

Vinyl chloride was detected above its 2L standard in three groundwater samples (MW-04, MW-05R, and MW-07). During this sampling event the concentration of vinyl chloride in MW-05R (Figure 10) and MW-07 (Figure 14) decreased from the last sampling event in April 2012, while the concentration in MW-04 (Figure 8) increased from the spring 2012 sampling event. In April 2011, this constituent was not present in groundwater (with the exception of MW-05, a sample collected from a well that has since been abandoned).

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

5.1.1.3 SVOCs

None of the four detected SVOCs in the groundwater samples were above the respective groundwater quality standards.

5.1.1.4 Other Constituents

Herbicides and PCBs were not detected in the collected groundwater samples.

The pH results obtained for all sampled wells were outside the acceptable pH range established as the 2L standard. Although the results were outside the acceptable range, they appear to be consistent with historic pH readings and ranges that may be expected to be naturally occurring in the region.

Some natural attenuation parameters (alkalinity, BOD, COD, chloride, ethane, iron, methane, nitrogen, sulfate, and TOC) were detected in groundwater samples collected from one or more of the monitoring wells at various concentrations. Further evaluation of these parameters will be conducted in future monitoring events. Natural attenuation parameters are being obtained as part of the CAP. After four sampling events have been conducted, the parameters will be further evaluated. The initial MNA Corrective Action Evaluation Report will be prepared and submitted to DENR after the spring 2013 monitoring event. The spring 2013 monitoring event will be the fourth event following approval of the CAP.

5.1.2 Domestic Wells

VOCs were not detected in any of the groundwater samples collected from the domestic wells (DW-01 and DW-02).

5.2 Surface Water Quality

Metals (except barium, which was detected below its 2B standard) and VOCs were not detected in the surface water samples collected from either SW-01 (upstream of the landfill) or SW-02 (downstream of the landfill) locations. One SVOC, 1,2-dichlorobenzene, was detected in both surface water samples below the respective 2B standard. Herbicides, PCBs, cyanide, and sulfide were not detected in the surface water samples.

On the basis of these data it appears likely that the groundwater discharging from under the landfill into the Tuckaseegee River is not impacting the surface water quality in the Tuckaseegee River with regard to metals, VOCs, SVOCs, herbicides, and PCBs.

The pH readings measured in both surface water samples were within the 2B standard pH range.

5.3 Leachate Quality

Five VOCs (1,4-dichlorobenzene, benzene, ethylbenzene, toluene, and xylene) out of fourteen VOCs detected in the leachate sample were found at concentrations above their respective SWSLs.

On September 1, 2012 the leachate extraction was initiated following installation of the leachate extraction pumps in 10 Landfill Gas (LFG) extraction wells. Between September 1, 2012 and October 25, 2012, approximately 11,500 gallons of leachate was extracted and hauled from the landfill.

Based on the leachate sample analytical results collected on October 25, 2012, Altamont estimates that 0.00681 pounds of VOCs were removed with the extracted leachate. Mass removal calculations are included in Table 6.

6.0 Future Activities

Altamont will continue to monitor the water quality on a semiannual basis at the Jackson County Closed Municipal Solid Waste landfill. The groundwater samples from the two domestic wells (DW-01 and DW-02) will be collected during the fall of each year and analyzed for VOCs only. Samples will be collected from monitoring wells, surface water monitoring points, and leachate holding tank during the spring and again in the fall of each year. In addition to the natural attenuation parameters that were added as part of the approved corrective action, the analytical suites associated with the current and future sampling events are as follows:

Sampling Event	Analytical Suite (not inclusive of natural attenuation parameters)
Spring 2012	Appendix I VOCs Appendix I metals
Fall 2012	Appendix II VOCs Appendix II metals Appendix II herbicides Appendix II SVOCs Appendix II PCBs Cyanide and sulfide
Spring 2013	Appendix I VOCs Appendix I metals
Fall 2013	Appendix II VOCs Appendix II metals Appendix II herbicides Cyanide and sulfide

Based on the approved corrective action remedy, the final phase of leachate extraction system may be installed in July 2013. The leachate sample analysis, along with available leachate removal volume measurements between fall 2012 and spring 2013 sampling events, will be used to estimate the mass of VOC extracted by the active portion of the approved corrective action remedy. The next sampling event is scheduled for April 2013.

7.0 References

Altamont Environmental, Inc. June 30, 2011. *Corrective Action Plan*.

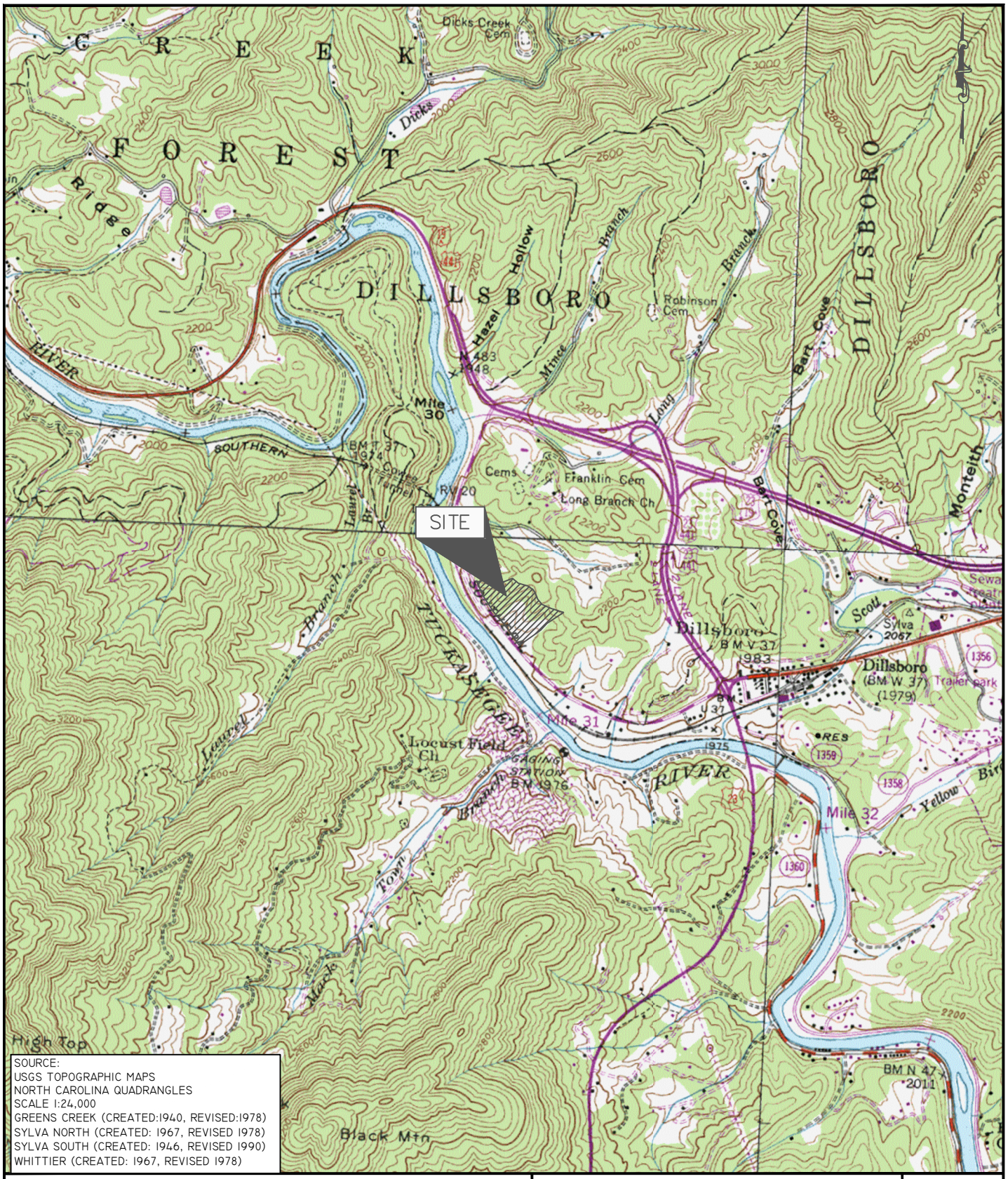
North Carolina Department of Environment and Natural Resources (DENR) Division of Waste Management (DWM) Solid Waste Section (SWS). 2006. Memorandum to SW Director/County Manager/Consultant/Laboratory, *Re: New Guidelines for Electronic Submittal of Environmental Monitoring Data,* dated October 27, 2006.

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

DENR DWM SWS. Rev 4-08. *Solid Waste Section Guidelines for Groundwater, Soil, and Surface Water Sampling.*

U. S. Environmental Protection Agency (EPA). 1996. *Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures*, OSWER, EPA/540/S-95/504.

FIGURES



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

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DRAWN BY: MARTA A. VANDUSSEN
PROJECT MANAGER: CHRIS GILBERT
CLIENT: JACKSON COUNTY
DATE: 02/26/2013

SCALE (FEET)
1000 0 1000 2000

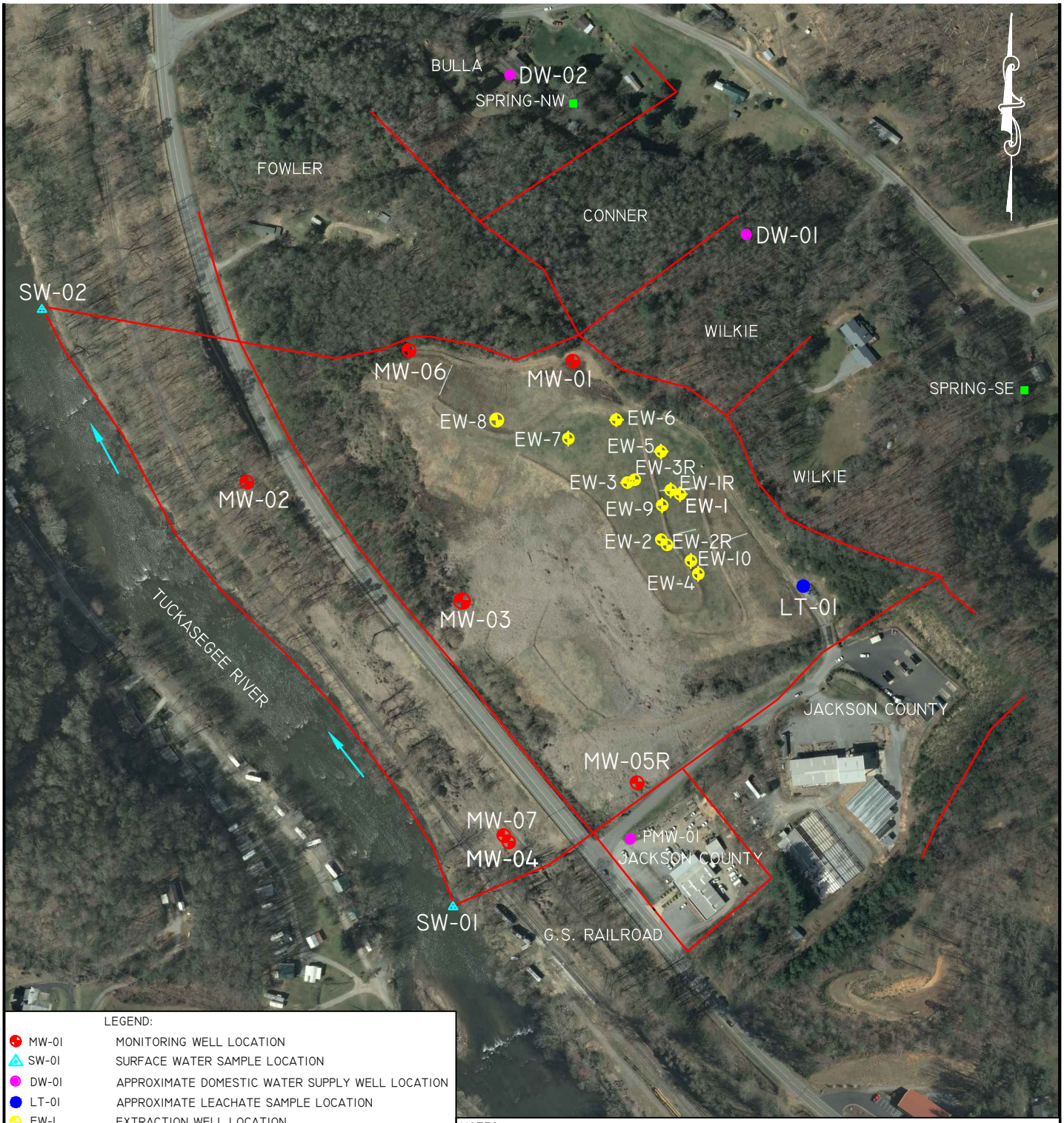
SITE LOCATION MAP

JACKSON COUNTY CLOSED MUNICIPAL SOLID WASTE LANDFILL
PERMIT #50-02

JACKSON COUNTY, NORTH CAROLINA

FIGURE
1

P:\JACKSON COUNTY\DILLSBORO GW\FIGURES\CAD\2012\FALL/FIGURE 1



LEGEND:

MW-01	MONITORING WELL LOCATION
SW-01	SURFACE WATER SAMPLE LOCATION
DW-01	APPROXIMATE DOMESTIC WATER SUPPLY WELL LOCATION
LT-01	APPROXIMATE LEACHATE SAMPLE LOCATION
EW-1	EXTRACTION WELL LOCATION
PMW-01	PRIVATE MONITORING WELL LOCATION
SPRING-NW	SPRING LOCATION
	PROPERTY BOUNDARY
FOWLER	PROPERTY OWNER SURNAME

NOTES:
1. TOPOGRAPHIC CONTOURS WERE ACQUIRED FROM A McGILL ASSOCIATES DRAWING AND ARE FOR REPRESENTATIVE PURPOSES ONLY.
2. LOCATIONS OF EXTRACTION WELLS ARE BASED ON THE HAND HELD GPS UNIT.
3. LOCATIONS OF DOMESTIC WATER SUPPLY WELLS DW-01 AND DW-02 ARE APPROXIMATE.
4. AERIAL IMAGERY (2010) FROM NC ONE MAP WEBSITE.

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SAMPLE LOCATION MAP

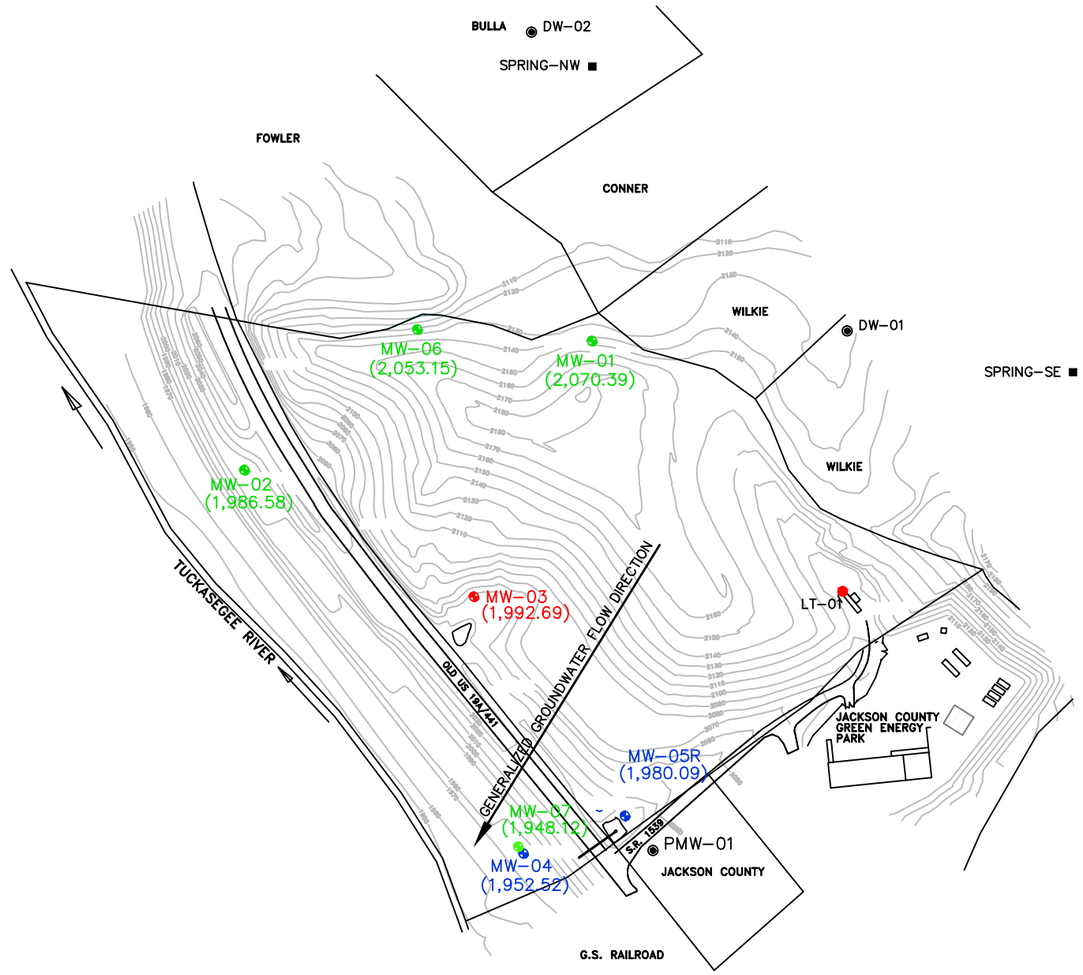
JACKSON COUNTY CLOSED MUNICIPAL
SOLID WASTE LANDFILL
PERMIT #50-02
JACKSON COUNTY, NORTH CAROLINA

FIGURE
2

DRAWN BY: MARTA A. VANDUSSEN
PROJECT MANAGER: CHRIS GILBERT
CLIENT: JACKSON COUNTY
DATE: 02/26/2013

SCALE (FEET)
150' 0 150' 300'
1" = 300'

FILE PATH: P:\JACKSON COUNTY\DILLSBORO GW\FIGURES\CAD\2012\FALL\FIGURE 2-SAMPLE LOCATION MAP.DWG



LEGEND:

- MW-01 MONITORING WELL LOCATION
- SW-01 SURFACE WATER SAMPLE LOCATION
- PMW-01 PRIVATE MONITORING WELL LOCATION
- DW-01 DOMESTIC WATER SUPPLY WELL
- LT-01 LEACHATE SAMPLE LOCATION
- SPRING-NW SPRING LOCATION
- (2,068.53) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL ON APRIL 11 OR 12, 2012
- FOWLER PROPERTY OWNER SURNAME
- SAPROLITE MONITORING WELL LOCATION
- PARTIALLY WEATHERED ROCK MONITORING WELL LOCATION
- BEDROCK MONITORING WELL LOCATION

NOTES:

1. TOPOGRAPHIC CONTOURS ARE OBTAINED FROM McGILL ASSOCIATES AND ARE FOR REPRESENTATIVE PURPOSES ONLY.
2. GROUNDWATER FLOW DIRECTION BASED ON GROUNDWATER ELEVATIONS IN FEET IN MONITORING WELLS MW-03, MW-04, AND MW-05R CALCULATED BASED ON DEPTH TO WATER MEASURED ON OCTOBER 23 AND 24, 2012.
3. GROUNDWATER ELEVATIONS AND FLOW DIRECTION ARE UPDATED ON A SEMIANNUAL BASIS EVERY APRIL AND OCTOBER FOLLOWING THE SAMPLE COLLECTION EVENTS.
4. MONITORING WELL MW-05R WAS INSTALLED ON JANUARY 26, 2012 AS A REPLACEMENT TO THE WELL MW-05 (ABANDONED ON JANUARY 26, 2012). WELL MW-05R WAS SURVEYED BY WES COLE LAND SURVEYING, P.A. ON SEPTEMBER 28, 2012.

REV.	DATE	DESCRIPTION	BY	CHK	APV
9	02-11-13	UPDATE GROUNDWATER ELEVATIONS	MVD	MG	CFG
8	10-04-12	UPDATE GROUNDWATER ELEVATIONS	MVD	NB	CFG
7	07-23-12	UPDATE	MVD	AKB	CFG
6	06-18-11	UPDATE	MVD	AKB	CFG
5	11-11-09	UPDATE	KRM	APM	
4	06-01-09	UPDATE	MAV	JDH	
3	06-09-08	UPDATE	KM	JDH	
2	10-30-06	NEW TITLE BLOCK	JK	JDH	
1	11-12-01	ORIGINAL	JMC	JPM	

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DRAWN BY: MARTA A. VANDUSSEN
PROJECT MANAGER: CHRIS GILBERT
CLIENT: JACKSON COUNTY
DATE: 02/20/2013

SCALE (FEET)
150 0 150 300

GENERALIZED GROUNDWATER FLOW DIRECTION

JACKSON COUNTY CLOSED MUNICIPAL SOLID WASTE LANDFILL
PERMIT #50-02
JACKSON COUNTY, NORTH CAROLINA

FIGURE 3

P:\JACKSON COUNTY\DILLSBORO GW\FIGURES\CAD\2012\FALL\FIGURE 3

Figure 4
Hydrograph and 1,4-Dichlorobenzene Concentration vs. Time
Monitoring Well MW-01
Jackson County Closed Municipal Solid Waste Landfil

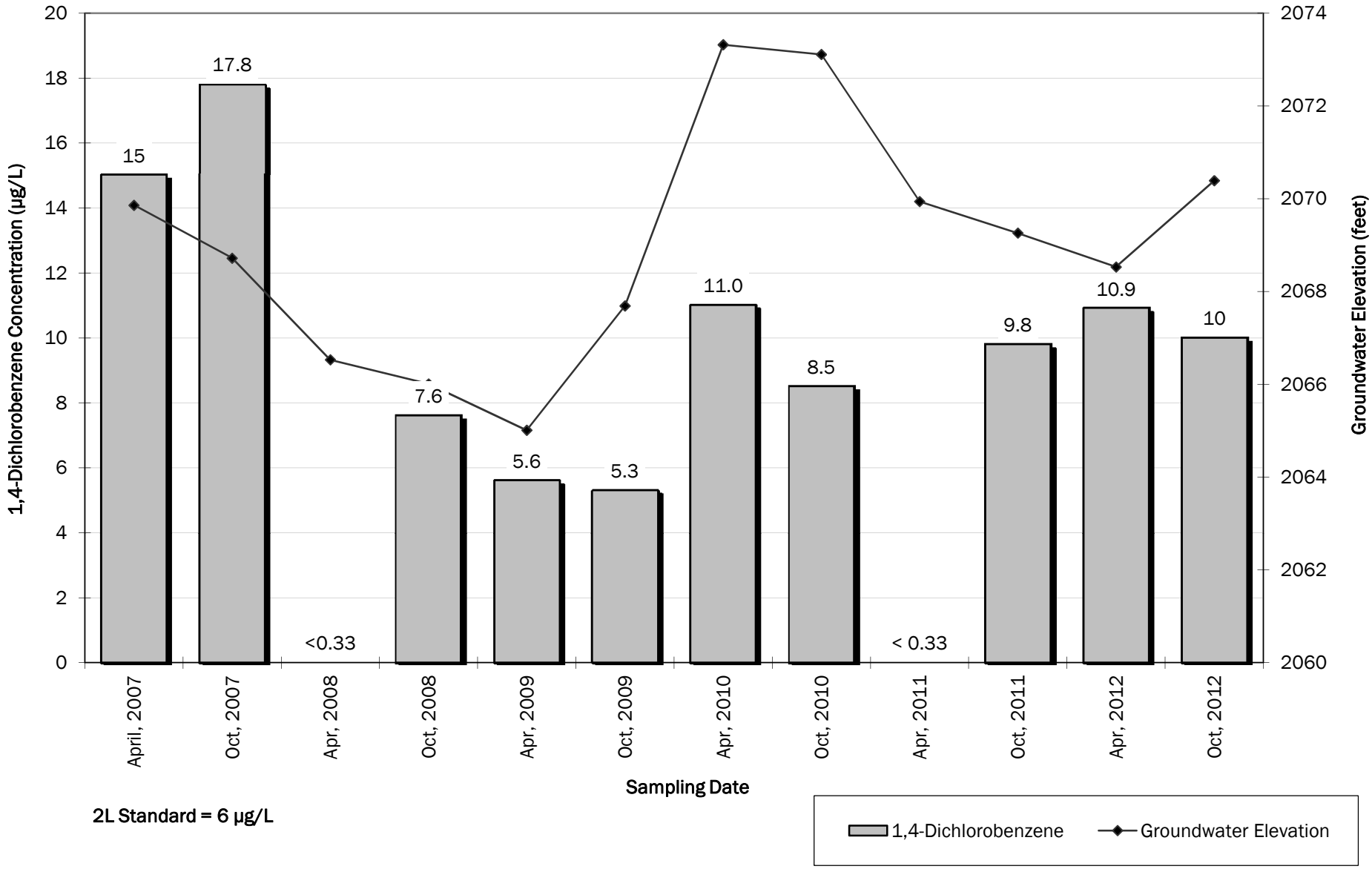

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Figure 5
Hydrograph and Benzene Concentration vs. Time
Monitoring Well MW-01
Jackson County Closed Municipal Solid Waste Landfill

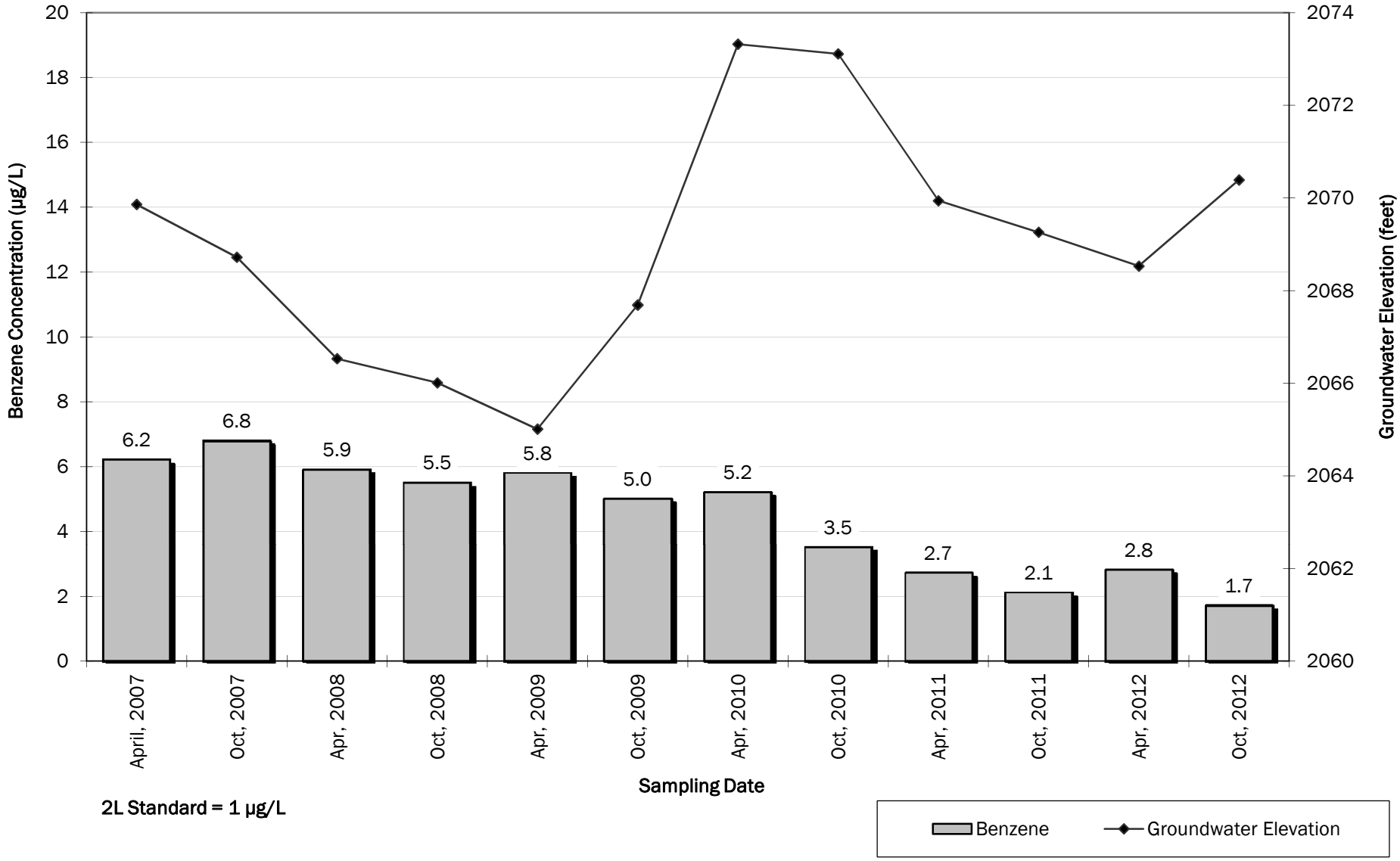

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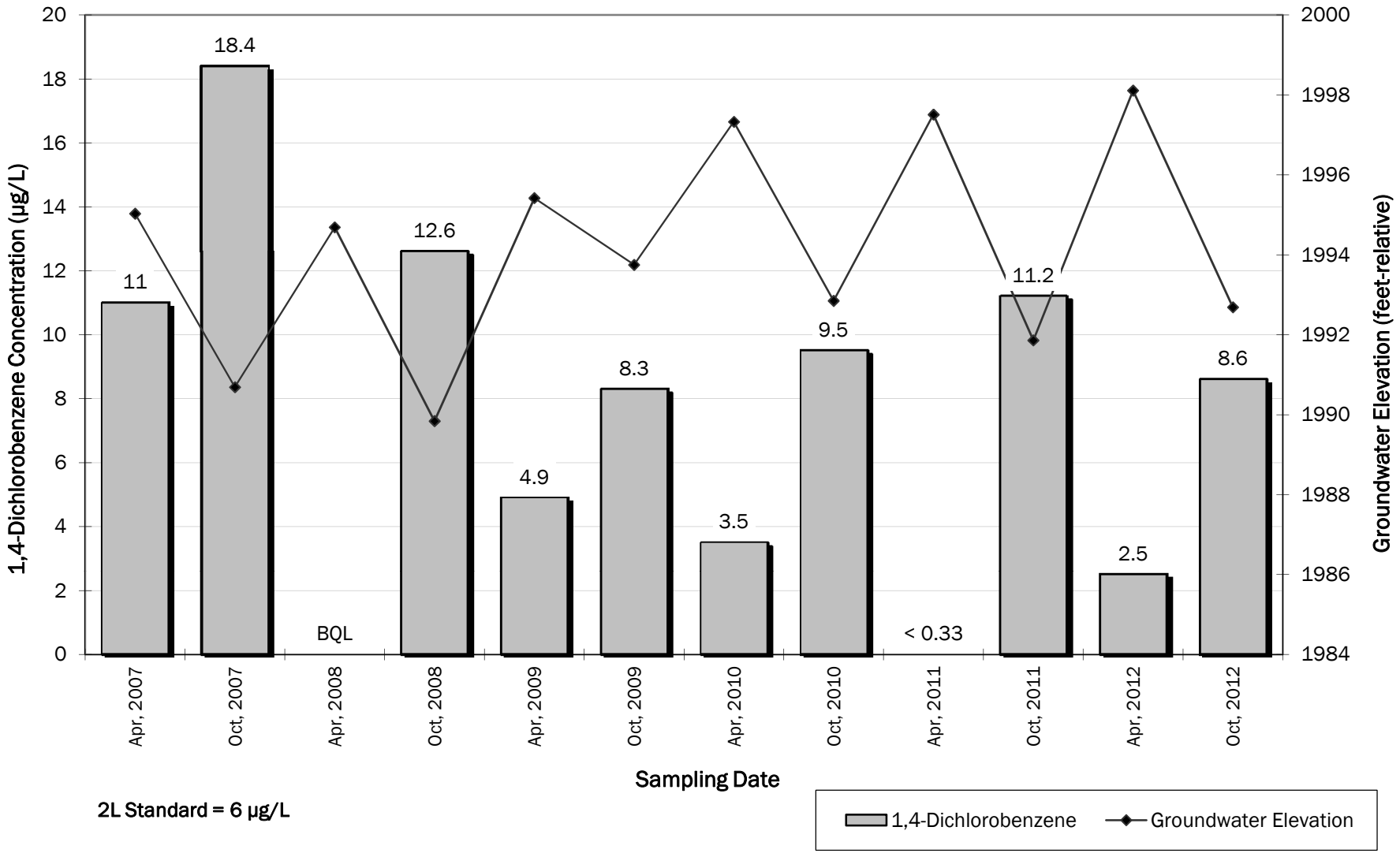
Figure 6
Hydrograph and 1,4-Dichlorobenzene Concentration vs. Time
Monitoring Well MW-03
Jackson County Closed Municipal Solid Waste Landfill



2L Standard = 6 µg/L

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Figure 7
Hydrograph and Benzene Concentration vs. Time
Monitoring Well MW-03
Jackson County Closed Municipal Solid Waste Landfill

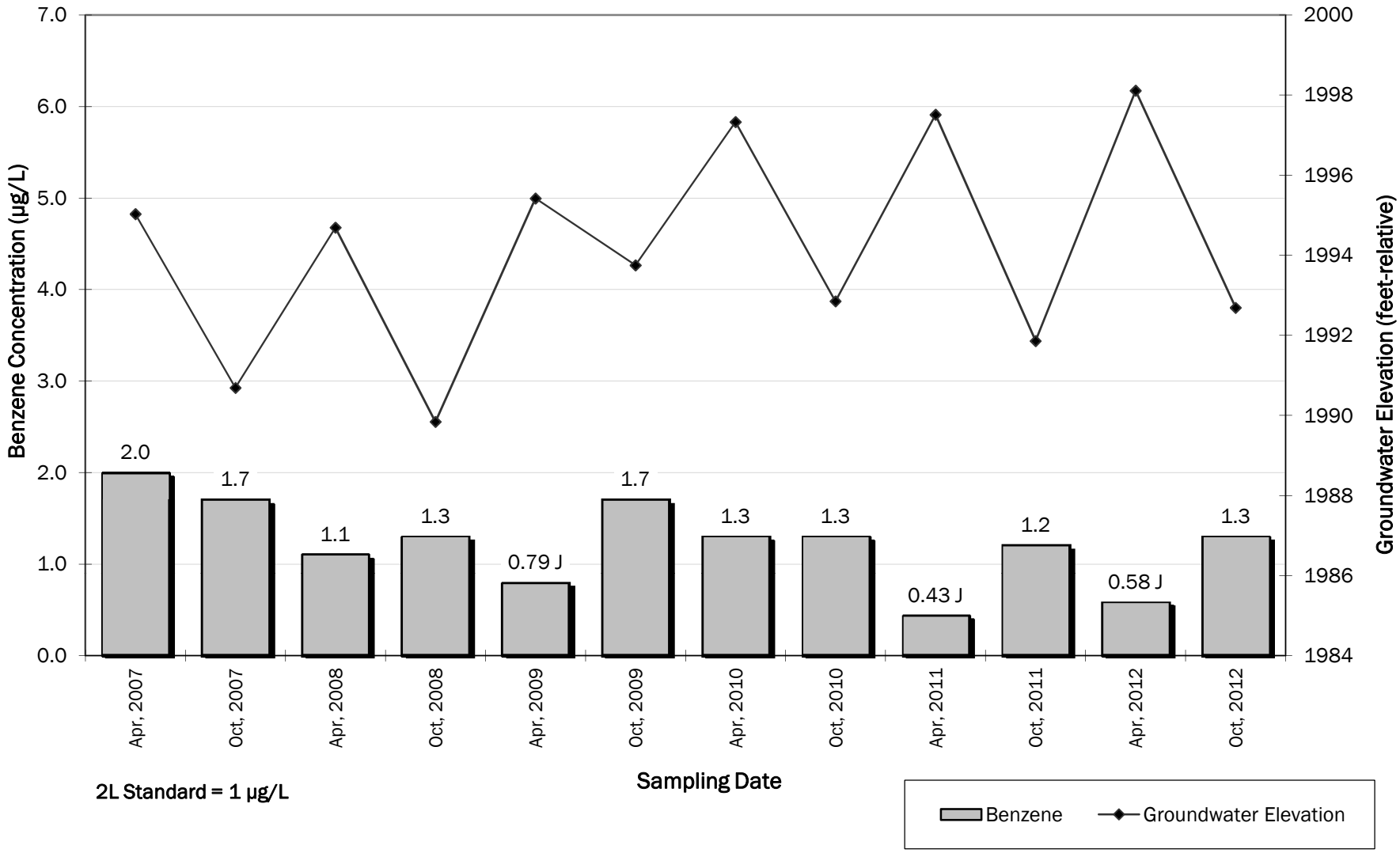

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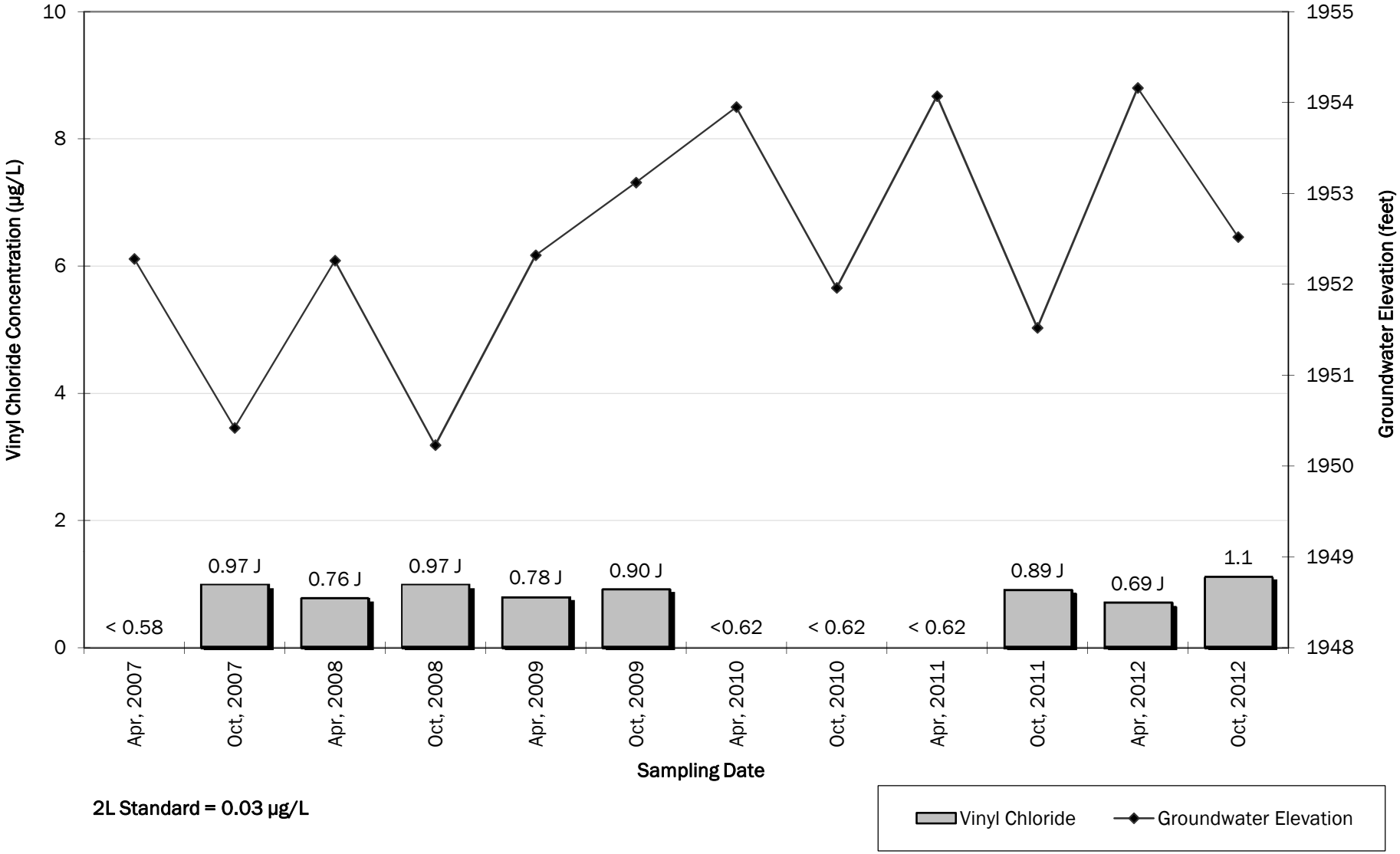
Figure 8
Hydrograph and Vinyl Chloride Concentration vs. Time
Monitoring Well MW-04
Jackson County Closed Municipal Solid Waste Landfill



2L Standard = 0.03 µg/L

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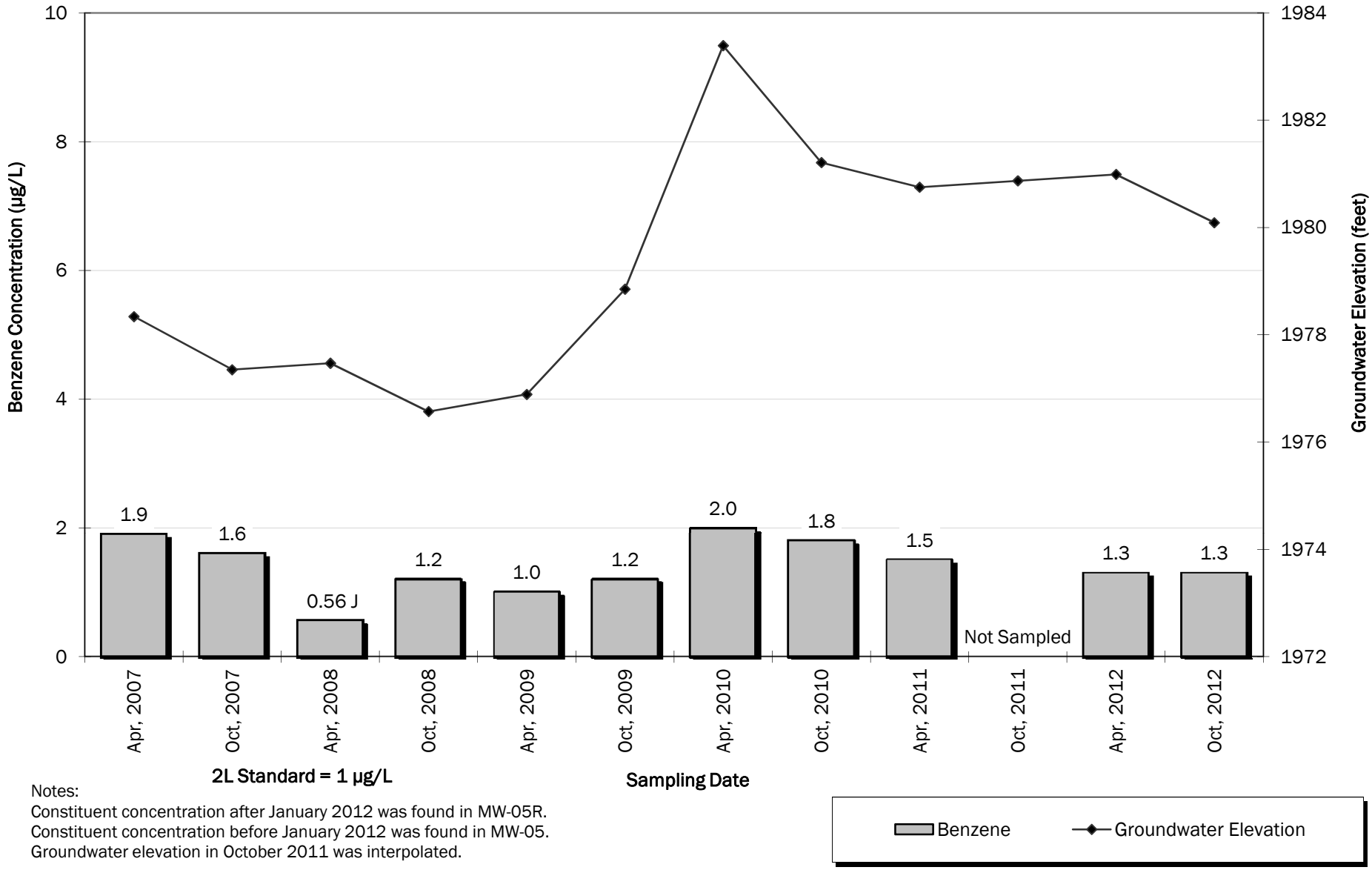
Figure 9
Hydrograph and Benzene Concentration vs. Time
Monitoring Well MW-05R
Jackson County Closed Municipal Solid Waste Landfill



Notes:
Constituent concentration after January 2012 was found in MW-05R.
Constituent concentration before January 2012 was found in MW-05.
Groundwater elevation in October 2011 was interpolated.

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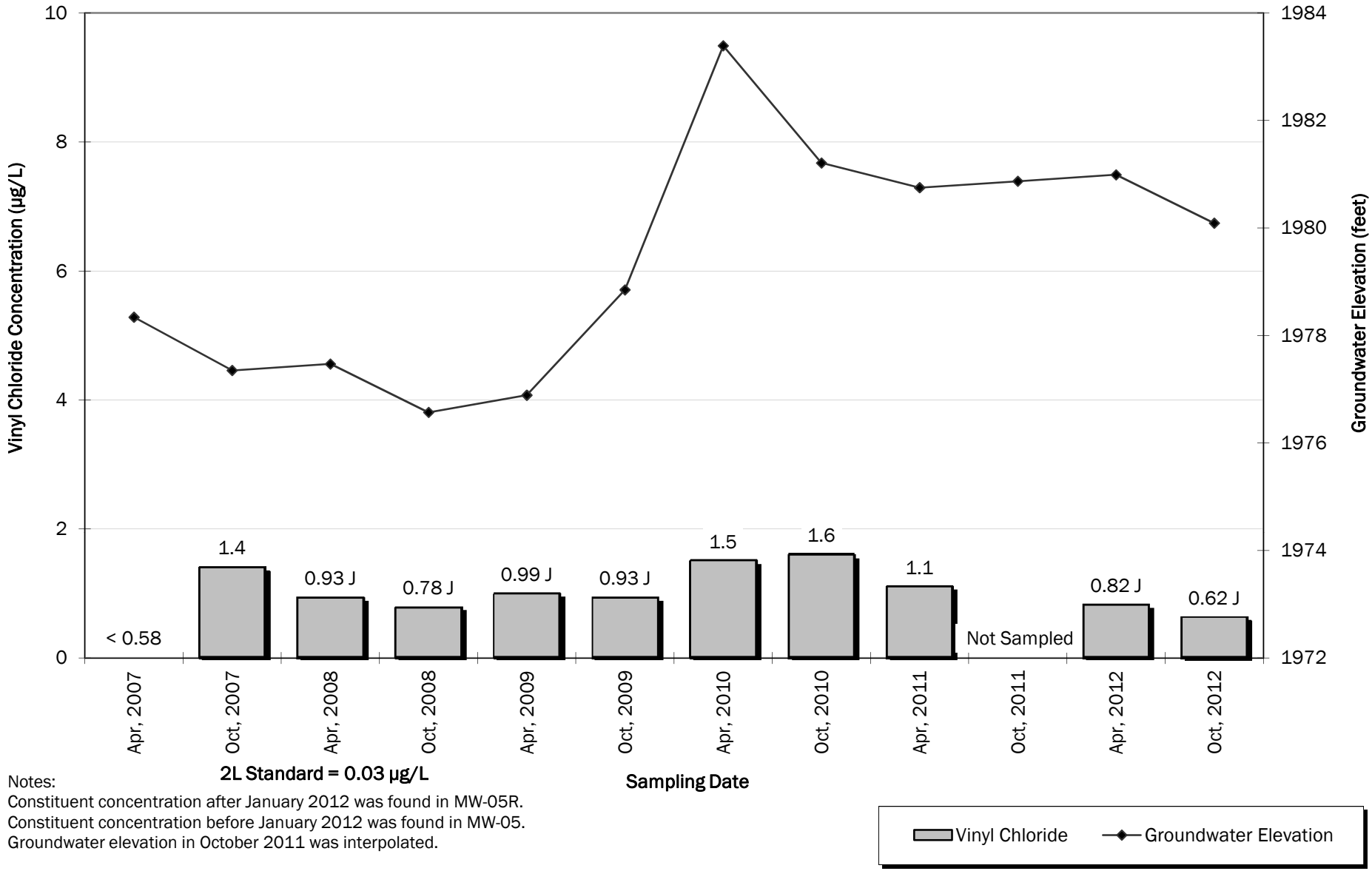
Figure 10
Hydrograph and Vinyl Chloride Concentration vs. Time
Monitoring Well MW-05R
Jackson County Closed Municipal Solid Waste Landfill



Notes:
Constituent concentration after January 2012 was found in MW-05R.
Constituent concentration before January 2012 was found in MW-05.
Groundwater elevation in October 2011 was interpolated.

P:\Jackson County\Dillsboro GW\Analytical & Data\Water\2012\Fall\Tables\5002Oct2012Graphs

Figure 11
Hydrograph and 1,4-Dichlorobenzene Concentration vs. Time
Monitoring Well MW-06
Jackson County Closed Municipal Solid Waste Landfill

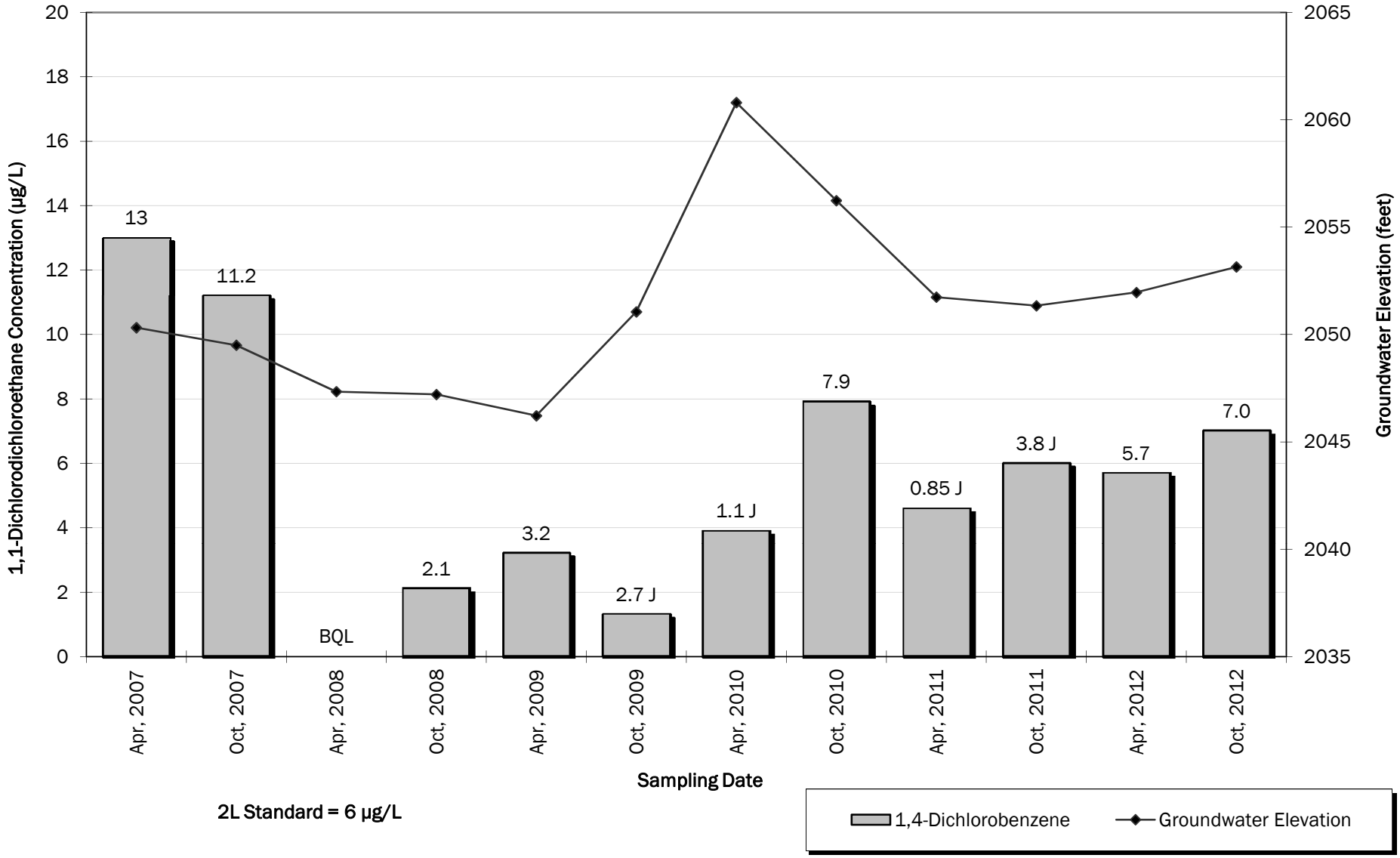


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Figure 12
Hydrograph and Benzene Concentration vs. Time
Monitoring Well MW-06
Jackson County Closed Municipal Solid Waste Landfill

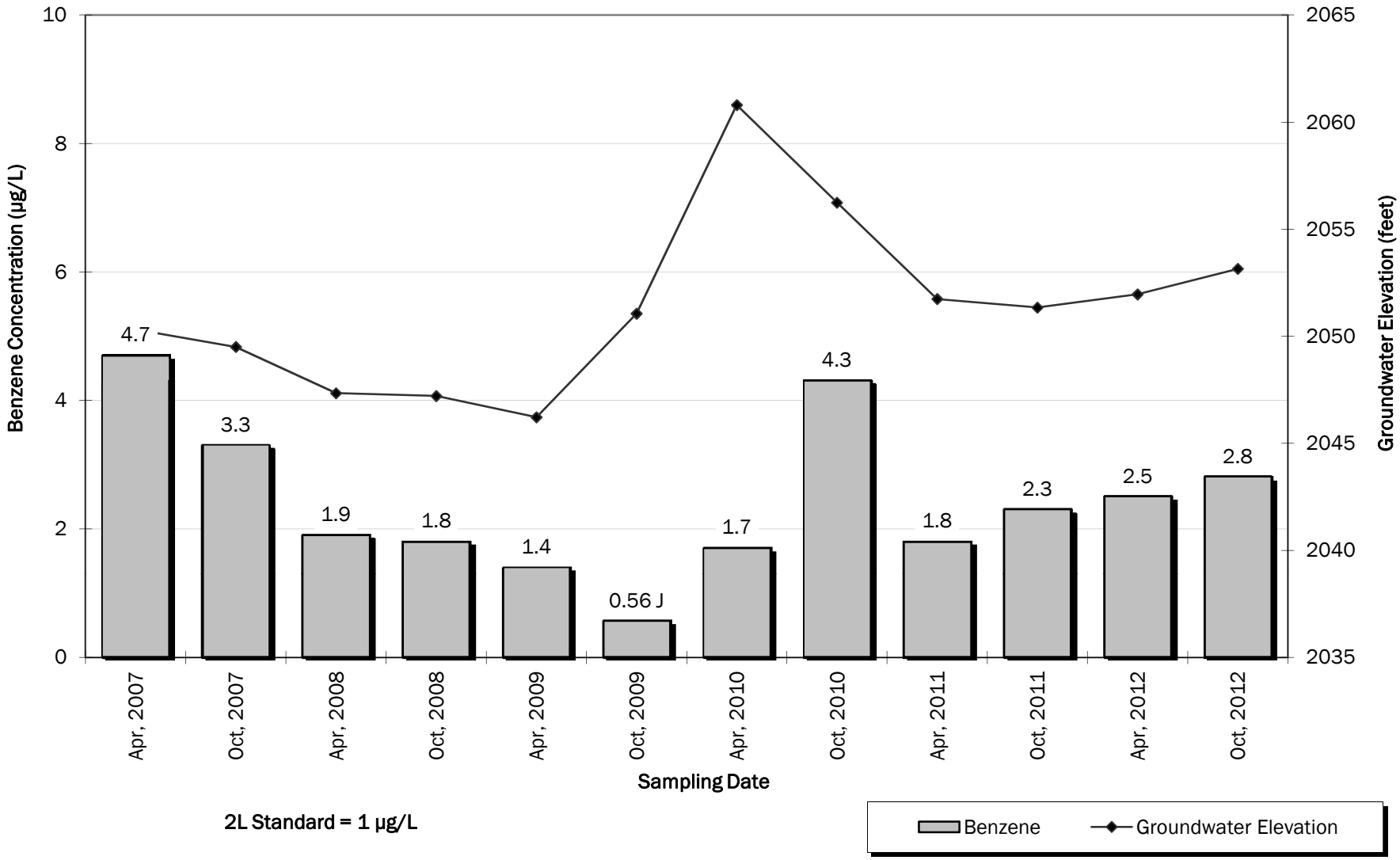

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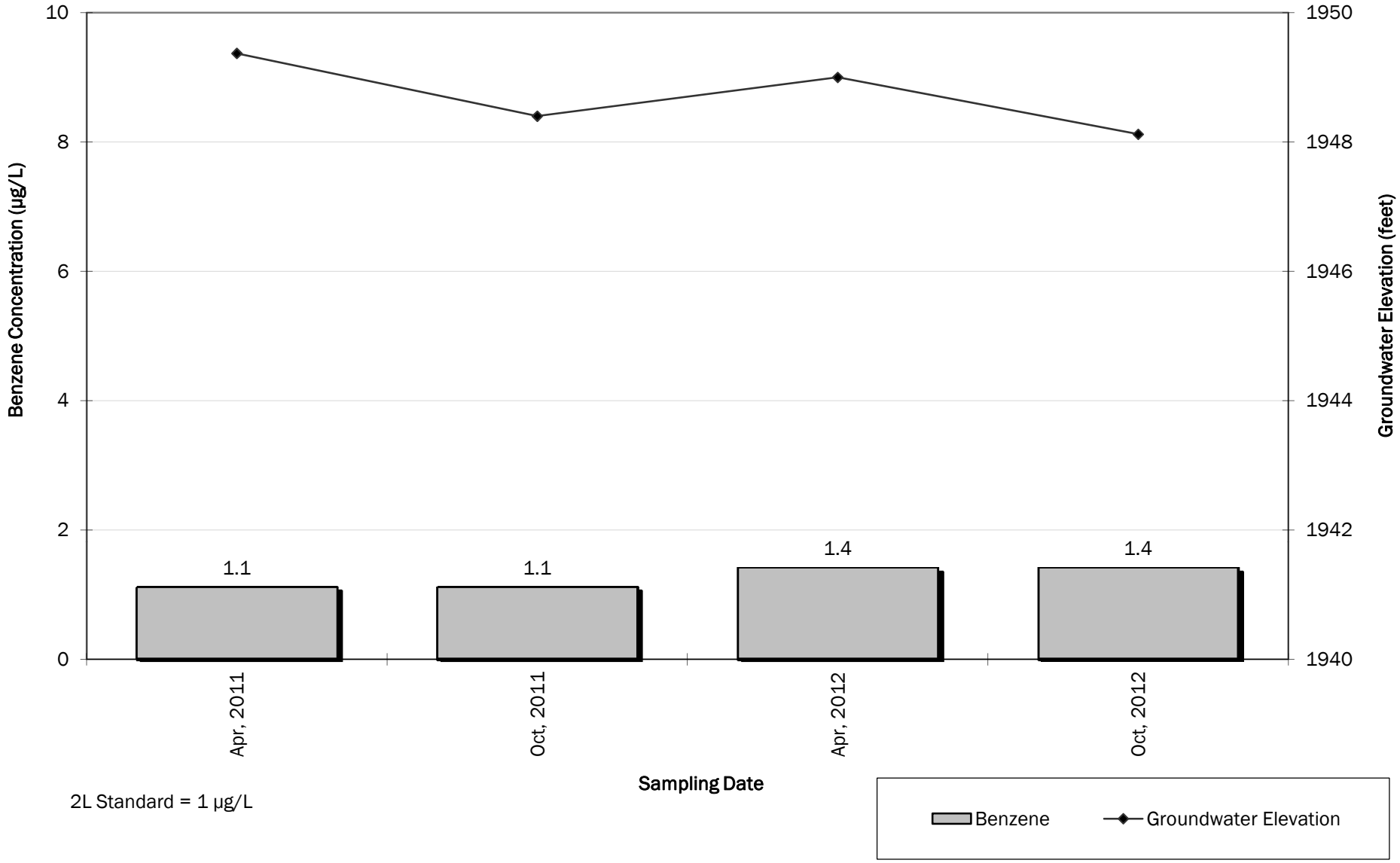
Figure 13
Hydrograph and Benzene Concentration vs. Time
Monitoring Well MW-07
Jackson County Closed Municipal Solid Waste Landfill



2L Standard = 1 µg/L

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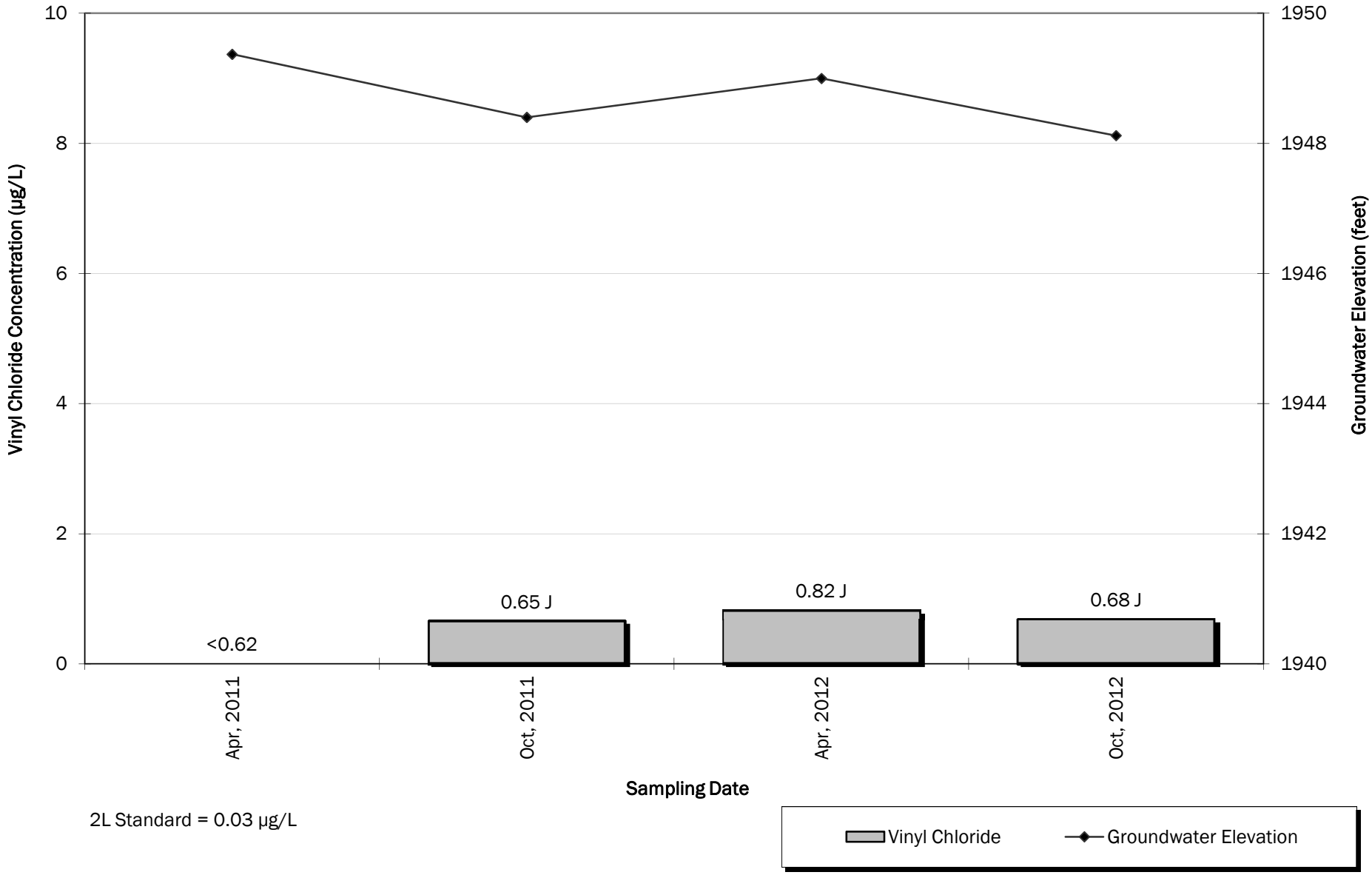
Figure 14
Hydrograph and Vinyl Chloride Concentration vs. Time
Monitoring Well MW-07
Jackson County Closed Municipal Solid Waste Landfill



2L Standard = 0.03 µg/L

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TABLES

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

GROUNDWATER SAMPLES

Analysis		Metals	VOCs	SVOCs	Herbicides	PCBs	VOCs
Sample Name	Date Collected	EPA 6010 EPA 6020 EPA 7470	EPA 8260	EPA 8270	EPA 8151	EPA 8082	EPA 524.2
MW-01	10/23/2012	X	X	X	X	X	
MW-02	10/24/2012	X	X	X	X	X	
MW-03	10/23/2012	X	X	X	X	X	
MW-04	10/24/2012	X	X	X	X	X	
MW-05R	10/24/2012	X	X	X	X	X	
MW-06	10/23/2012	X	X	X	X	X	
MW-07	10/24/2012	X	X	X	X	X	
DW-01	10/25/2012						X
DW-02	10/25/2012						X

SURFACE WATER, LEACHATE, AND QUALITY CONTROL SAMPLES

Analysis		Metals	VOCs	SVOCs	Herbicides	PCBs	VOCs	Cyanide	Sulfide
Sample Name	Date Collected	EPA 6010 EPA 6020 EPA 7470	EPA 8260	EPA 8270	EPA 8151	EPA 8082	EPA 524.2	SM 4500-CN-E	SM 4500-S2D
SW-01	10/24/2012	X	X	X	X	X	X	X	X
SW-02	10/24/2012	X	X	X	X	X	X	X	X
LT-01	10/25/2012		X						
TRIP BLANK (1)	10/23/2012		X						
Trip Blank (2)	10/23/2012		X						
TRIP BLANK (3)	10/25/2012		X						

GROUNDWATER SAMPLES

Analysis		Natural Attenuation Parameters												
		Ethane Ethene Methane	Alkalinity	BOD	COD	Cyanide	Chloride	Carbon Dioxide Hydrogen	Fatty Volatile Acids	Iron Ferrous	Nitrogen Nitrate	Sulfate	Sulfide	TOC
Sample Name	Date Collected	RSK 175 Air Headspace	SM 2320B	SM 5210B	SM 5220D	SM 4500-CN-E	SM 4500-Cl-E	AM20GAX	AM23G	SM 3500-Fe D#4	EPA 353.2	EPA 300.0	SM 4500-S2D	SM 5310B
MW-01	10/23/2012	X	X	X	X	X	X	X	X	X	X	X	X	X
MW-02	10/24/2012	X	X	X	X	X	X	X	X	X	X	X	X	X
MW-03	10/23/2012	X	X	X	X	X	X	X	X	X	X	X	X	X
MW-04	10/24/2012	X	X	X	X	X	X	X	X	X	X	X	X	X
MW-05R	10/24/2012	X	X	X	X	X	X	X	X	X	X	X	X	X
MW-06	10/23/2012	X	X	X	X	X	X	X	X	X	X	X	X	X
MW-07	10/24/2012	X	X	X	X	X	X	X	X	X	X	X	X	X

Notes:
1. VOCs = volatile organic compounds. SVOCs = semivolatile organic compounds.
2. TOC = total organic carbon.
3. BOD = biochemical oxygen demand.
4. COD = chemical oxygen demand.
5. PCBs = polychlorinated biphenyls.
6. During fall 2012 monitoring event VOCs, SVOCs, metals, herbicides, and PCBs analysis include Appendix II constituents per Title 40 Code of Federal Regulations (CFR) Part 258.
7. Blank cells indicate that the analysis was not performed on sample.

Table 2
Summary of Detected Compounds
Jackson County Closed Municipal Solid Waste Landfill, Jackson County, North Carolina

	Lab Certification	Metals 40 and 530 (Thallium)											
	Lab Method	EPA 6010, 7470, 6020 (Thallium)											
	Parameter	Arsenic	Barium	Beryllium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Thallium	Vanadium	Zinc
	CAS Number	7440-38-2	7440-39-3	7440-41-7	7440-47-3	7440-48-4	7440-50-8	7439-92-1	7439-97-6	7440-02-0	7440-28-0	7440-62-2	7440-66-6
	SWS ID	14	15	23	51	53	54	131	132	152	194	209	213
	Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Sample Name	Collect Date	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
MW-01	10/23/2012	5.0 U	107	1.0 U	5.0 U	264	5.0 U	5.0 U	0.10 U	14.2 J	0.65 J	5.0 U	10.0 U
MW-02	10/24/2012	5.0 U	40.9 J	1.0 U	5.0 U	6.5 J	5.0 U	5.0 U	0.10 U	15.5 J	0.10 J	5.0 U	10.0 U
MW-03	10/23/2012	5.0 U	162	1.0 U	5.0 U	70.0	5.0 U	5.0 U	0.10 U	8.4 J	0.10 J	5.0 U	10.0 U
MW-04	10/24/2012	5.0 U	88.5 J	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.11 J	5.0 U	0.067 J	5.0 U	10.0 U
MW-05R	10/24/2012	6.6 J	722	2.9	68.3	57.7	112	24.3	0.10 U	53.8	0.16 J	89.0	291
MW-06	10/23/2012	5.0 U	76.9 J	1.0 U	5.0 U	120	5.0 U	5.0 U	0.10 U	17.7 J	0.68 J	5.0 U	10.0 U
MW-07	10/24/2012	5.0 U	273	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.10 U	5.0 U	0.019 U	5.0 U	10.0 U
SW-01	10/24/2012	5.0 U	13.1 J	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.10 U	5.0 U	0.019 U	5.0 U	10.0 U
SW-02	10/24/2012	5.0 U	11.7 J	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.10 U	5.0 U	0.019 U	5.0 U	10.0 U
	MDL	5.0	5.0	1.0	5.0	5.0	5.0	5.0	0.10	5.0	0.019	5.0	10.0
	MRL	5.0	5.0	1.0	5.0	5.0	5.0	5.0	0.20	5.0	0.10	5.0	10.0
	SWSL	10	100	1	10	10	10	10	0.2	50	5.5	25	10
	2L	10	700	NE	10	NE	1,000	15	1	100	NE	NE	1,000
	IMAC	NE	NE	4	NE	1	NE	NE	NE	NE	0.2	0.3	NE
	GWPS	NE	NE	4	NE	1	NE	NE	NE	NE	0.28	0.3	NE
	2B	10	200,000	6.5	50	4	7	25	0.012	88	0.47	NE	50

	Lab Certification	Volatile Organic Compounds (VOCs) 12												
	Lab Method	EPA 8260												
	Parameter	1,1-Dichloro-ethane	1,2-Dichloro-benzene	1,2-Dichloro-ethane	1,4-Dichloro-benzene	4-Methyl-2-pentanone	Acetone	Benzene	Chloro-benzene	Chloroethane	Chloromethane	cis-1,2-Dichloroethene	Dichlorodifluoro-methane	Ethylbenzene
	CAS Number	75-34-3	95-50-1	107-06-2	106-46-7	108-10-1	67-64-1	71-43-2	108-90-7	75-00-3	74-87-3	156-59-2	75-71-8	100-41-4
	SWS ID	75	69	76	71	147	3	16	39	41	137	78	74	110
	Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Sample Name	Collect Date	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
MW-01	10/23/2012	5.0	0.31 J	0.12 U	10	0.33 U	10.0 U	1.7	3.8	0.54 U	0.11 U	8.0	0.21 U	0.30 U
MW-02	10/24/2012	0.49 J	0.30 U	0.12 U	0.33 U	0.33 U	10.0 U	0.25 U	0.23 U	0.54 U	0.11 U	0.45 J	0.21 U	0.30 U
MW-03	10/23/2012	1.8 J	0.51 J	0.12 U	8.6	0.33 U	10.0 U	1.3	11.6	0.54 U	0.11 U	3.5 J	0.21 U	0.30 U
MW-04	10/24/2012	0.32 U	0.32 J	0.12 U	5.8	0.33 U	10.0 U	0.93 J	4.4	0.54 U	0.11 U	6.3	0.21 U	0.30 U
MW-05R	10/24/2012	0.32 U	0.30 U	0.12 U	3.5	0.33 U	10.0 U	1.3	4.0	0.54 U	0.14 J	11.2	0.57 J	0.30 U
MW-06	10/23/2012	5.3	0.30 U	0.19 J	7.0	0.33 U	10.0 U	2.8	2.6 J	1.3 J	0.11 U	8.8	0.21 U	0.30 U
MW-07	10/24/2012	0.57 J	0.40 J	0.12 U	4.9	0.33 U	10.0 U	1.4	5.7	0.54 U	0.11 U	9.0	0.21 U	0.30 U
SW-01	10/24/2012	0.32 U	0.30 U	0.12 U	0.33 U	0.33 U	10.0 U	0.25 U	0.23 U	0.54 U	0.11 U	0.19 U	0.21 U	0.30 U
SW-02	10/24/2012	0.32 U	0.30 U	0.12 U	0.33 U	0.33 U	10.0 U	0.25 U	0.23 U	0.54 U	0.11 U	0.19 U	0.21 U	0.30 U
LT-01	10/25/2012	0.32 U	0.30 U	0.12 U	3.4	2.1 J	29.2 J	2.1	2.9 J	0.54 U	0.11 U	0.63 J	0.93 J	10.2
	MDL	0.32	0.30	0.12	0.33	0.33	10.0	0.25	0.23	0.54	0.11	0.19	0.21	0.30
	MRL	1.0	1.0	1.0	1.0	5.0	25.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	SWSL	5	5	1	1	100	100	1	3	10	1	5	5	1
	2L	6	20	0.4	6	NE	6,000	1	50	3,000	3	70	1,000	600
	IMAC	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
	GWPS	NE	NE	NE	NE	560	NE	NE	NE	NE	NE	NE	NE	NE
	2B	100	470	37	100	26,000	2,000	51	140	NE	96	720	NE	97

Table 2
Summary of Detected Compounds
Jackson County Closed Municipal Solid Waste Landfill, Jackson County, North Carolina

		Volatile Organic Compounds (VOCs)										Semivolatile Organic Compounds (SVOCs)			
Lab Certification		12										12			
Lab Method		EPA 8260										EPA 8270			
Parameter		m&p-Xylene	Methylene Chloride	Naphthalene	o-Xylene	Styrene	Tetrachloro-ethene	Toluene	Trichloro-ethene	Vinyl Chloride	Xylene	1,2-Dichloro-benzene	1,4-Dichloro-benzene	bis(2-Ethylhexyl) phthalate	Caprolactam
CAS Number		SW359	75-09-2	91-20-3	96-47-6	100-42-5	127-18-4	108-88-3	79-01-6	75-01-4	1330-20-7	95-50-1	106-46-7	117-81-7	105-60-2
SWS ID		359	140	148	408	186	192	196	201	211	346	69	71	111	440
Units		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Sample Name	Collect Date	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
MW-01	10/23/2012	0.66 U	0.97 U	**1.3 J**	0.23 U	0.26 U	**0.68 J**	0.26 U	**0.94 J**	0.62 U	0.66 U	0.88 U	**5.7 J**	0.79 U	2.1 U
MW-02	10/24/2012	0.66 U	0.97 U	0.24 U	0.23 U	0.26 U	0.46 U	0.26 U	0.47 U	0.62 U	0.66 U	0.88 U	0.95 U	0.79 U	2.1 U
MW-03	10/23/2012	0.66 U	0.97 U	0.24 U	0.23 U	0.26 U	0.46 U	0.26 U	0.47 U	0.62 U	0.66 U	0.88 U	**5.3 J**	0.79 U	2.1 U
MW-04	10/24/2012	0.66 U	0.97 U	0.24 U	0.23 U	0.26 U	0.46 U	0.26 U	0.47 U	**1.1**	0.66 U	0.88 U	**3.4 J**	0.79 U	2.1 U
MW-05R	10/24/2012	0.66 U	0.97 U	0.24 U	0.23 U	0.26 U	0.46 U	0.26 U	0.47 U	**0.62 J**	0.66 U	**17.8**	**3.0 J**	**2.1 J**	**1,230**
MW-06	10/23/2012	0.66 U	0.97 U	0.24 U	**0.40 J**	0.26 U	0.46 U	0.26 U	**0.76 J**	0.62 U	0.66 U	0.88 U	**3.0 J**	0.79 U	2.1 U
MW-07	10/24/2012	0.66 U	0.97 U	0.24 U	0.23 U	0.26 U	0.46 U	0.26 U	0.47 U	**0.68 J**	0.66 U	0.88 U	**2.9 J**	0.79 U	2.1 U
SW-01	10/24/2012	0.66 U	0.97 U	0.24 U	0.23 U	0.26 U	0.46 U	0.26 U	0.47 U	0.62 U	0.66 U	**15.9**	0.95 U	0.79 U	2.1 U
SW-02	10/24/2012	0.66 U	0.97 U	0.24 U	0.23 U	0.26 U	0.46 U	0.26 U	0.47 U	0.62 U	0.66 U	**24.5**	0.95 U	0.79 U	2.1 U
LT-01	10/25/2012	**4.6**	0.97 U	**6.9 J**	**4.7**	**0.33 J**	0.46 U	**3.0**	0.47 U	0.62 U	**9.4**	NA	NA	NA	NA
TRIP BLANK (1)	10/23/2012	0.66 U	0.97 U	0.24 U	0.23 U	0.26 U	0.46 U	0.26 U	0.47 U	0.62 U	0.66 U	NA	NA	NA	NA
Trip Blank (2)	10/23/2012	0.66 U	**1.1**	0.24 U	0.23 U	0.26 U	0.46 U	0.26 U	0.47 U	0.62 U	0.66 U	NA	NA	NA	NA
TRIP BLANK (3)	10/25/2012	0.66 U	**1.2**	0.24 U	0.23 U	0.26 U	0.46 U	0.26 U	0.47 U	0.62 U	0.66 U	NA	NA	NA	NA
MDL		0.66	0.97	0.24	0.23	0.26	0.46	0.26	0.47	0.62	0.66	0.88	0.95	0.79	2.1
MRL		2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	10.0	10.0	6.0	10.0
SWSL		NE	1	10	NE	1	1	1	1	1	5	5	1	15	NE
2L		500	5	6	500	70	0.7	600	3	0.03	500	20	6	3	4,000
IMAC		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
GWPS		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
2B		670	590	12	600	NE	3.3	11	30	2.4	670	470	100	2.2	NE

		Inorganics and Natural Attenuation Parameters										Field Parameters		
Lab Certification		40 and 530 (Methane)										5445 (pH only)		
Lab Method		SM 2320B	SM 5210B	SM 5220D	SM 4500-Cl-E	RSK 175	SM 3500-Fe D#4	RSK 175	EPA 353.2	EPA 300.0	SM 5310B			
Parameter		Alkalinity	Biochemical Oxygen Demand	Chemical Oxygen Demand	Chloride	Ethene	Iron, Ferrous	Methane	Nitrogen, Nitrate	Sulfate	Total Organic Carbon	Dissolved Oxygen	pH	Turbidity
CAS Number		SW337	SW316	SW317	16887-00-6	74-85-1	SW334	74-82-8	SW419	14808-79-8	7440-44-0	7782-44-7	SW320	SW330
SWS ID		337	316	317	455	332	334	456	419	315	357	356	320	330
Units		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	SU	NTU
Sample Name	Collect Date	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
MW-01	10/23/2012	**99,500**	2,000 U	25,000 U	**1,200**	0.79 U	**16,400**	**3,130**	**32 J**	**2,300 J**	1,000 U	**0.27**	**5.43**	**10.63**
MW-02	10/24/2012	**29,800**	2,000 U	25,000 U	**20,000**	0.79 U	500 U	**11.5**	**290 J**	**8,100 J**	**4,000**	**3.74**	**5.63**	**0.00**
MW-03	10/23/2012	**87,500**	2,000 U	25,000 U	**50,600**	0.79 U	500 U	**6.5 J**	**560 J**	**2,700 J**	**11,800**	**0.25**	**5.33**	**3.44**
MW-04	10/24/2012	**95,200**	2,000 U	25,000 U	**83,400**	0.79 U	500 U	**889**	**4,000 J**	**105,000 J**	**14,400**	**0.21**	**5.27**	**0.00**
MW-05R	10/24/2012	**308,000**	**4,900**	**68,000**	**76,000**	0.79 U	500 U	3.3 U	20 U	**2,700 J**	**27,200**	**3.11**	**5.72**	**531.6**
MW-06	10/23/2012	**57,600**	2,000 U	25,000 U	1,000 U	0.79 U	**3,600**	**21.1**	20 U	2,000 U	**1,100**	**0.37**	**5.33**	**1.81**
MW-07	10/24/2012	**214,000**	2,000 U	25,000 U	**48,600**	**1.0 J**	**1,800**	**1,200**	20 U	**27,200 J**	**12,500**	**0.43**	**5.72**	**8.20**
DW-01	10/25/2012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**4.76**	**6.01**	**0.00**
DW-02	10/25/2012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**4.88**	**5.55**	**9.34**
SW-01	10/24/2012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**11.91**	**7.12**	**17.95**
SW-02	10/24/2012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**10.65**	**6.53**	**8.46**
LT-01	10/25/2012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**2.08**	**7.04**	**7.95**
MDL		1,000	2,000	25,000	1,000/5,000	0.79	500	3.3	20	2,000	1,000	NA	NA	NA
MRL		5,000	2,000	25,000	1,000/5,000	6.2	500	6.6	20	2,000	1,000	NA	NA	NA
SWSL		NE	NE	NE	NE	NE	NE	NE	10,000	250,000	NE	NE	NE	NE
2L		NE	NE	NE	250,000	NE	NE	NE	10,000	250,000	NE	NE	6.5-8.5	NE
IMAC		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
GWPS		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
2B		NE	NE	NE	230,000	NE	NE	NE	NE	NE	NE	not less than 5	6.0-9.0	50

Table 2
Summary of Detected Compounds
Jackson County Closed Municipal Solid Waste Landfill, Jackson County, North Carolina

Notes:

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

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

FACILITY PERMIT	WELL ID	CAS NUMBER	SWS ID	PARAMETER	RESULT	UNITS	METHOD	MDL	MRL	SWSL	COLLECT DATE
50-02	MW-01	7440-39-3	15	Barium	107	ug/L	EPA 6010	5.0	5.0	100	10/23/2012
50-02	MW-01	7440-48-4	53	Cobalt	264	ug/L	EPA 6010	5.0	5.0	10	10/23/2012
50-02	MW-01	75-34-3	75	1,1-Dichloroethane	5.0	ug/L	EPA 8260	0.32	1.0	5	10/23/2012
50-02	MW-01	106-46-7	71	1,4-Dichlorobenzene	10	ug/L	EPA 8260	0.33	1.0	1	10/23/2012
50-02	MW-01	71-43-2	16	Benzene	1.7	ug/L	EPA 8260	0.25	1.0	1	10/23/2012
50-02	MW-01	108-90-7	39	Chlorobenzene	3.8	ug/L	EPA 8260	0.23	1.0	3	10/23/2012
50-02	MW-01	156-59-2	78	cis-1,2-Dichloroethene	8.0	ug/L	EPA 8260	0.19	1.0	5	10/23/2012
50-02	MW-03	7440-39-3	15	Barium	162	ug/L	EPA 6010	5.0	5.0	100	10/23/2012
50-02	MW-03	7440-48-4	53	Cobalt	70.0	ug/L	EPA 6010	5.0	5.0	10	10/23/2012
50-02	MW-03	106-46-7	71	1,4-Dichlorobenzene	8.6	ug/L	EPA 8260	0.33	1.0	1	10/23/2012
50-02	MW-03	71-43-2	16	Benzene	1.3	ug/L	EPA 8260	0.25	1.0	1	10/23/2012
50-02	MW-03	108-90-7	39	Chlorobenzene	11.6	ug/L	EPA 8260	0.23	1.0	3	10/23/2012
50-02	MW-04	106-46-7	71	1,4-Dichlorobenzene	5.8	ug/L	EPA 8260	0.33	1.0	1	10/24/2012
50-02	MW-04	108-90-7	39	Chlorobenzene	4.4	ug/L	EPA 8260	0.23	1.0	3	10/24/2012
50-02	MW-04	156-59-2	78	cis-1,2-Dichloroethene	6.3	ug/L	EPA 8260	0.19	1.0	5	10/24/2012
50-02	MW-04	75-01-4	211	Vinyl chloride	1.1	ug/L	EPA 8260	0.62	1.0	1	10/24/2012
50-02	MW-05R	7440-39-3	15	Barium	722	ug/L	EPA 6010	5.0	5.0	100	10/24/2012
50-02	MW-05R	7440-41-7	23	Beryllium	2.9	ug/L	EPA 6010	1.0	1.0	1	10/24/2012
50-02	MW-05R	7440-47-3	51	Chromium	68.3	ug/L	EPA 6010	5.0	5.0	10	10/24/2012
50-02	MW-05R	7440-48-4	53	Cobalt	57.7	ug/L	EPA 6010	5.0	5.0	10	10/24/2012
50-02	MW-05R	7440-50-8	54	Copper	112	ug/L	EPA 6010	5.0	5.0	10	10/24/2012
50-02	MW-05R	7439-92-1	131	Lead	24.3	ug/L	EPA 6010	5.0	5.0	10	10/24/2012
50-02	MW-05R	7440-02-0	152	Nickel	53.8	ug/L	EPA 6010	5.0	5.0	50	10/24/2012
50-02	MW-05R	7440-62-2	209	Vanadium	89.0	ug/L	EPA 6010	5.0	5.0	25	10/24/2012
50-02	MW-05R	7440-66-6	213	Zinc	291	ug/L	EPA 6010	10.0	10.0	10	10/24/2012
50-02	MW-05R	95-50-1	69	1,2-Dichlorobenzene	17.8	ug/L	EPA 8270	0.88	10.0	5	10/24/2012
50-02	MW-05R	106-46-7	71	1,4-Dichlorobenzene	3.5	ug/L	EPA 8260	0.33	1.0	1	10/24/2012
50-02	MW-05R	71-43-2	16	Benzene	1.3	ug/L	EPA 8260	0.25	1.0	1	10/24/2012
50-02	MW-05R	108-90-7	39	Chlorobenzene	4.0	ug/L	EPA 8260	0.23	1.0	3	10/24/2012
50-02	MW-05R	156-59-2	78	cis-1,2-Dichloroethene	11.2	ug/L	EPA 8260	0.19	1.0	5	10/24/2012
50-02	MW-06	7440-48-4	53	Cobalt	120	ug/L	EPA 6010	5.0	5.0	10	10/23/2012
50-02	MW-06	75-34-3	75	1,1-Dichloroethane	5.3	ug/L	EPA 8260	0.32	1.0	5	10/23/2012
50-02	MW-06	106-46-7	71	1,4-Dichlorobenzene	7.0	ug/L	EPA 8260	0.33	1.0	1	10/23/2012
50-02	MW-06	71-43-2	16	Benzene	2.8	ug/L	EPA 8260	0.25	1.0	1	10/23/2012
50-02	MW-06	156-59-2	78	cis-1,2-Dichloroethene	8.8	ug/L	EPA 8260	0.19	1.0	5	10/23/2012
50-02	MW-07	7440-39-3	15	Barium	273	ug/L	EPA 6010	5.0	5.0	100	10/24/2012
50-02	MW-07	106-46-7	71	1,4-Dichlorobenzene	4.9	ug/L	EPA 8260	0.33	1.0	1	10/24/2012
50-02	MW-07	71-43-2	16	Benzene	1.4	ug/L	EPA 8260	0.25	1.0	1	10/24/2012
50-02	MW-07	108-90-7	39	Chlorobenzene	5.7	ug/L	EPA 8260	0.23	1.0	3	10/24/2012
50-02	MW-07	156-59-2	78	cis-1,2-Dichloroethene	9.0	ug/L	EPA 8260	0.19	1.0	5	10/24/2012
50-02	LT-01	106-46-7	71	1,4-Dichlorobenzene	3.4	ug/L	EPA 8260	0.33	1.0	1	10/25/2012
50-02	LT-01	71-43-2	16	Benzene	2.1	ug/L	EPA 8260	0.25	1.0	1	10/25/2012
50-02	LT-01	100-41-4	110	Ethylbenzene	10.2	ug/L	EPA 8260	0.30	1.0	1	10/25/2012
50-02	LT-01	108-88-3	196	Toluene	3.0	ug/L	EPA 8260	0.26	1.0	1	10/25/2012
50-02	LT-01	1330-20-7	346	Xylene (Total)	9.4	ug/L	EPA 8260	0.66	2.0	5	10/25/2012
50-02	SW-01	95-50-1	69	1,2-Dichlorobenzene	15.9	ug/L	EPA 8270	0.88	10.0	5	10/24/2012
50-02	SW-02	95-50-1	69	1,2-Dichlorobenzene	24.5	ug/L	EPA 8270	0.88	10.0	5	10/24/2012
50-02	Trip Blank	75-09-2	140	Methylene Chloride	1.1	ug/L	EPA 8260	0.97	1.0	1	10/23/2012
50-02	TRIP BLANK	75-09-2	140	Methylene Chloride	1.2	ug/L	EPA 8260	0.97	1.0	1	10/25/2012

Notes:

1. "CAS NUMBER" is a unique number assigned by the Chemical Abstracts Service (CAS) to all identified parameters.
2. "SWS ID" is the Solid Waste Section Identification Number.
3. "RESULT" is the analytical data reported by the laboratory.
4. "UNITS" are micrograms per liter (µg/L) for analytical results.
5. "METHOD" is the analytical method used to analyze the constituents.
6. "MDL" is the method detection limit, which is the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.
7. "MRL" is the method reporting limit, which is the minimum concentration of a target analyte that can be accurately determined by the referenced method.
8. "SWSL" is the Solid Waste Section Limit. This limit (identified by DENR) is the lowest amount of analyte in a sample that can be quantitatively determined with suitable precision and accuracy.
9. "COLLECT DATE" is the date on which the sample was collected in the field.
10. Grayed cells indicate result in exceedance of the 2L or Interim Maximum Allowable Concentration (IMAC) standards or greater than or equal to the Groundwater Protection Standard (GWPS [if no 2L or IMAC exist]).
11. 2L Standard and IMAC are from "North Carolina Administrative Code, Title 15A: Department of Environment and Natural Resources, Subchapter 2L - Groundwater Classifications and Standards," DENR (Amended Eff January 1, 2010).
12. GWPS is pursuant to "15A NCAC 13B .1634," DENR. Current standards were obtained from http://portal.ncdenr.org/web/sw/envmonitoringlist (last updated June 13, 2011).

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

FACILITY PERMIT	WELL ID	CAS NUMBER	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	GROUNDWATER QUALITY STANDARD	COLLECT DATE	CAUSE AND SIGNIFICANCE
50-02	MW-01	7440-48-4	53	Cobalt	264	ug/L		EPA 6010	5.0	5.0	10	1	10/23/2012	Possibly naturally occurring. Turbidity of sample 10.63 NTU.
50-02	MW-01	7440-28-0	194	Thallium	0.65	ug/L	J	EPA 6020	0.019	0.10	5.5	0.2	10/23/2012	
50-02	MW-01	106-46-7	71	1,4-Dichlorobenzene	10	ug/L		EPA 8260	0.33	1.0	1	6	10/23/2012	Anthropogenic.
50-02	MW-01	71-43-2	16	Benzene	1.7	ug/L		EPA 8260	0.25	1.0	1	1	10/23/2012	
50-02	MW-01	SW320	320	pH	5.43	SU					NE	6.5 - 8.5	10/23/2012	Consistent with historic measurements.
50-02	MW-02	7440-48-4	53	Cobalt	6.5	ug/L	J	EPA 6010	5.0	5.0	10	1	10/24/2012	Possibly naturally occurring. Turbidity of sample 0.00 NTU.
50-02	MW-02	SW320	320	pH	5.63	SU					NE	6.5 - 8.5	10/24/2012	Consistent with historic measurements.
50-02	MW-03	7440-48-4	53	Cobalt	70.0	ug/L		EPA 6010	5.0	5.0	10	1	10/23/2012	Possibly naturally occurring. Turbidity of sample 3.44 NTU.
50-02	MW-03	106-46-7	71	1,4-Dichlorobenzene	8.6	ug/L		EPA 8260	0.33	1.0	1	6	10/23/2012	Anthropogenic.
50-02	MW-03	71-43-2	16	Benzene	1.3	ug/L		EPA 8260	0.25	1.0	1	1	10/23/2012	
50-02	MW-03	SW320	320	pH	5.33	SU					NE	6.5 - 8.5	10/23/2012	Consistent with historic measurements.
50-02	MW-04	75-01-4	211	Vinyl chloride	1.1	ug/L		EPA 8260	0.62	1.0	1	0.03	10/24/2012	Anthropogenic.
50-02	MW-04	SW320	320	pH	5.27	SU					NE	6.5 - 8.5	10/24/2012	Consistent with historic measurements.
50-02	MW-05R	7440-39-3	15	Barium	722	ug/L		EPA 6010	5.0	5.0	100	700	10/24/2012	Possibly naturally occurring. Turbidity of sample 531.6 NTU.
50-02	MW-05R	7440-47-3	51	Chromium	68.3	ug/L		EPA 6010	5.0	5.0	10	10	10/24/2012	
50-02	MW-05R	7440-48-4	53	Cobalt	57.7	ug/L		EPA 6010	5.0	5.0	10	1	10/24/2012	
50-02	MW-05R	7439-92-1	131	Lead	24.3	ug/L		EPA 6010	5.0	5.0	10	15	10/24/2012	
50-02	MW-05R	7440-62-2	209	Vanadium	89.0	ug/L		EPA 6010	5.0	5.0	25	0.3	10/24/2012	
50-02	MW-05R	71-43-2	16	Benzene	1.3	ug/L		EPA 8260	0.25	1.0	1	1	10/24/2012	Anthropogenic.
50-02	MW-05R	75-01-4	211	Vinyl chloride	0.62	ug/L	J	EPA 8260	0.62	1.0	1	0.03	10/24/2012	
50-02	MW-05R	SW320	320	pH	5.72	SU					NE	6.5 - 8.5	10/24/2012	Consistent with historic measurements.
50-02	MW-06	7440-48-4	53	Cobalt	120	ug/L		EPA 6010	5.0	5.0	10	1	10/23/2012	Possibly naturally occurring. Turbidity of sample 1.81 NTU.
50-02	MW-06	7440-28-0	194	Thallium	0.68	ug/L	J	EPA 6020	0.019	0.10	5.5	0.2	10/23/2012	
50-02	MW-06	106-46-7	71	1,4-Dichlorobenzene	7.0	ug/L		EPA 8260	0.33	1.0	1	6	10/23/2012	Anthropogenic.
50-02	MW-06	71-43-2	16	Benzene	2.8	ug/L		EPA 8260	0.25	1.0	1	1	10/23/2012	
50-02	MW-06	SW320	320	pH	5.33	SU					NE	6.5 - 8.5	10/23/2012	Consistent with historic measurements.
50-02	MW-07	71-43-2	16	Benzene	1.4	ug/L		EPA 8260	0.25	1.0	1	1	10/24/2012	Anthropogenic.
50-02	MW-07	75-01-4	211	Vinyl chloride	0.68	ug/L	J	EPA 8260	0.62	1.0	1	0.03	10/24/2012	
50-02	MW-07	SW320	320	pH	5.72	SU					NE	6.5 - 8.5	10/24/2012	Consistent with historic measurements.

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

Notes:

1. "CAS NUMBER" is a unique number assigned by the Chemical Abstracts Service (CAS) to all identified parameters.
2. "SWS ID" is the Solid Waste Section Identification Number.
3. "RESULT" is analytical data reported by the laboratory or field data collected by Altamont.
4. "UNITS" are micrograms per liter (µg/L) for analytical results and Standard Units (SU) for pH.
5. "QUALIFIER" is a data qualifier or "flag". A blank cell indicates that there is no qualifier associated with the reported result.
6. "METHOD" is the analytical method used to analyze the constituents.
7. "MDL" is the method detection limit, which is the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.
8. "MRL" is the method reporting limit, which is the minimum concentration of a target analyte that can be accurately determined by the referenced method.
9. "SWSL" is the Solid Waste Section Limit. This limit (identified by DENR) is the lowest amount of analyte in a sample that can be quantitatively determined with suitable precision and accuracy.
10. "GROUNDWATER QUALITY STANDARD" refers to the 2L Standard, Interim Maximum Allowable Concentration (IMAC), or Groundwater Protection Standard (GWPS) for groundwater.
11. "COLLECT DATE" is the date on which the sample was collected in the field.
12. "NE" means Not Established.
13. 2L Standard and IMAC are from "North Carolina Administrative Code, Title 15A: Department of Environment and Natural Resources, Subchapter 2L - Groundwater Classifications and Standards," DENR (Amended Eff January 1, 2010).
14. GWPS is pursuant to "15A NCAC 13B .1634," DENR. Current standards were obtained from http://portal.ncdenr.org/web/sw/envmonitoringlist (last updated June 13, 2011).

Table 5
Well Construction Details and Corresponding Elevations
Jackson County Municipal Solid Waste Landfill, Jackson County, North Carolina

Facility Permit	Well ID	Date Drilled	Ground Surface Elevation	TOC Elevation	Stick Up	Total Well Depth	Depth To Water	Groundwater Elevation	Approx. Depth to Bedrock	Approx. Top of Bedrock Elevation	Depth to Top of Screened Interval	Depth to Bottom of Screened Interval	Top Elevation of Screened Interval	Elevation of Bottom of Screened Interval	Geology of Screened Interval	Source of Well Construction Information
		(mm/dd/yyyy)	(feet)	(feet)	(feet above gs)	(feet bgs)	(feet below TOC)	(feet)	(feet bgs)	(feet)	(feet bgs)	(feet bgs)	(feet)	(feet)		
50-02	MW-01	04/23/1992	2,169.40	2,171.42	2.0	110.5	101.03	2,070.39	83.0	2,086.40	95.0	110.0	2,074.40	2,059.40	bedrock	S&ME, Inc.
50-02	MW-02	04/22/1992	2,013.15	2,015.38	2.3	63.0	28.80	1,986.58	13.0	2,000.15	45.0	60.0	1,968.15	1,953.15	bedrock	S&ME, Inc.
50-02	MW-03	04/21/1992	2,044.16	2,045.53	1.3	65.5	52.84	1,992.69	57.0	1,987.16	48.5	63.5	1,995.66	1,980.66	partially weathered	S&ME, Inc.
50-02	MW-04	04/21/1992	1,978.68	1,980.77	2.0	43.0	28.25	1,952.52	NA	NA	25.0	40.0	1,953.68	1,938.68	saprolite	S&ME, Inc.
50-02	MW-05R	01/26/2012	2,027.98	2,030.95	2.8	54.0	50.86	1,980.09	NA	NA	44.0	54.0	1,983.98	1,973.98	saprolite	Altamont Environmental, Inc.
50-02	MW-06	03/23/2004	2,136.58	2,139.57	3.0	94.0	86.42	2,053.15	47.6	2,088.98	84.6	94.6	2,051.98	2,041.98	bedrock	Altamont Environmental, Inc.
50-02	MW-07	07/30/2010	1,978.71	1,981.29	2.6	95.0	33.17	1,948.12	44.0	1,935.00	70.0	95.0	1,908.71	1,883.71	bedrock	

Notes:

1. Elevations associated with wells MW-01, MW-02, MW-03, MW-04, and MW-06 are measured relative to mean sea level (msl) and are based on surveying completed by Davenport & Associates, Inc..
2. Elevations associated with wells MW-05R and MW-07 are measured relative to horizontal North American Datum (NAD) 83 and are based on surveying completed by Wes Cole Land Surveying, P.A..
3. "TOC" means Top of Casing.
4. "bgs" means below ground surface.
5. "NA" means Not Applicable.
6. MW-01 through MW-04 Depth to Bedrock and Screened Interval taken from S&ME boring logs completed April 21, 22, and 23, 1992.
7. MW-06 Depth to Bedrock and Screened Interval taken from Altamont boring log completed March 23, 2004.
8. MW-07 Depth to Bedrock and Screened Interval taken from Altamont boring log completed July 30, 2010.
9. MW-05R Screened Interval taken from Altamont boring log completed January 26, 2012.
10. Depth to water measured on October 23 and 24, 2012.

Table 6
Mass Removal Calculation for Volatile Organic Compounds (VOCs) Detected in the Leachate Sample
Jackson County Closed Municipal Solid Waste Landfill, Jackson County, North Carolina

Dates		Detected Volatile Organic Compounds	Concentration in LT-01	Cumulative Flow	Differential Flow	Mass Removed
Beginning	Ending		(mg/L)	(gallons)	(gallons)	(pounds)
09/01/2012	10/25/2012	1,4-Dichloro-benzene	0.0034	11,500	11,500	0.00033
		4-Methyl-2-pentanone (MIBK)	0.0021 J			0.00020
		Acetone	0.0292			0.00280
		Benzene	0.0021			0.00020
		Chlorobenzene	0.0029			0.00028
		cis-1,2-Dichloroethene	0.00063 J			0.00006
		Dichlorodifluoromethane	0.00093 J			0.00009
		Ethylbenzene	0.0102			0.00098
		Naphthalene	0.0069			0.00066
		Styrene	0.00033 J			0.00003
		Toluene	0.003			0.00029
		Xylene (Total)	0.0094			0.00090
					Total	0.00681

Notes:

1. Only detected VOCs in leachate sample LT-01 are included in the mass removal calculation.
2. Leachate extraction at the landfill initiated on September 1, 2012.
3. Extraction volume measurements were recorded and provided by Jackson County staff.
4. Altamont bases mass removal calculations on the assumption that the VOCs concentration in one sampling event is representative of leachate quality until the next sampling event occurs, and that the leachate removal system has a 100% removal and treatment efficiency.
5. The Cumulative Flow is interpolated between LT-01 Sample Dates.
6. The Differential Flow represents the total flow between the LT-01 Sample Dates.
7. Mass Removed and Treated is estimated based upon a conversion of milligrams to pounds and liters to gallons and the multiplication of the Concentration by the Differential Flow for the specified period.
8. mg/L means milligrams per liter.
9. "J" indicates laboratory estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

APPENDICES

APPENDIX A

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

ALTAMONT ENVIRONMENTAL, INC.
ENGINEERING & HYDROGEOLOGY
231 HAYWOOD STREET, ASHEVILLE, NC 28801
TEL.828.281.3350 FAC.828.281.3351
WWW.ALTAMONTENVIRONMENTAL.COM

Low-Flow Sampling Log

PROJECT NAME: Jackson Co. LF GW Sampling
PROJECT NUMBER: 2040
LOCATION: Dillsboro, NC
DATE: 10/23/2012
SAMPLING PERSONNEL: P. Brooks, N. Swaty
WEATHER: 70s, clear

Well ID: MW-01
Screen Interval: 95 to 110' bgs
Depth to Water: 101.03 toc
Stickup: ~~2.3'~~ 2.1' ft
Depth of Pump Intake: 107' toc
Drawdown Set: 101.33 toc

Arrive at Well: 1249
Start Time: 1259
Sample Time: 1322
Finish Sample Time: 1338 start microsoep 1341
Leave Well: 1419
Well Diameter: 2"

Stop microsoep @ 1356

COMMENTS: gaseous odor from well

Time	DTW (feet)	Temp (°C)	Specific Cond. (µS)	DO (mg/L)	pH (S.U.) *report to 0.1 S.U.*	ORP (mV)	Turbidity (NTU)
~~1301~~ 1301	101.33	18.52	171	3.13	5.55	56.9	1.28
1304	101.33	17.50	169	1.46	5.47	58.4	2.32
1307	101.33	17.09	169	0.93	5.43	58.4	1.74
1310	101.33	16.48	173	0.35	5.40	50.9	8.30
1313	101.33	16.46	173	0.33	5.41	50.1	17.96
1316	101.33	16.42	174	0.31	5.42	47.9	11.20
1319	101.33	16.37	175	0.28	5.43	45.6	10.55
1322	101.33	16.36	175	0.27	5.43	45.2	10.63
~~1325~~							

Time between recharge during sample collection: 2 sec @ 3CPM

Sampling Personnel Signature: [signature]
Date: 10/23/12

NOTES:

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

bgs = below ground surface
toc = top of casing
°C = degrees Celsius
µS = micro-Siemen
DO = dissolved oxygen
mg/L = milligrams per liter
Samples are analyzed immediately upon collection.

S.U. = standard units
ORP = oxidation reduction potential
mV = millivolt
NTU = nephelometric turbidity units

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Low-Flow Sampling Log

PROJECT NAME: Jackson Co. LF GW Sampling
PROJECT NUMBER: 2040
LOCATION: Dillsboro, NC
DATE: 10/24/12
SAMPLING PERSONNEL: P Brooks, N Sturdy
WEATHER: 78°, clear

Well ID: MW-02
Screen Interval: 45-60' bgs
Depth to Water: 28.80 toc
Stickup: 2'
Depth of Pump Intake: 50' toc
Drawdown Set: 29.80 toc

Arrive at Well: 1334
Start Time: 1344
Sample Time: 1406
Finish Sample Time: 1618
Leave Well: 1628
Well Diameter: 2"

COMMENTS: slow recharge

Time	DTW (feet)	Temp (°C)	Specific Cond. (µS)	DO (mg/L)	pH (S.U.) report to 0.1 S.U.	ORP (mV) 151.4	Turbidity (NTU)
1345	29.80	17.37	132	6.74	5.72	~~191~~	13.18
1348	29.80	16.86	137	4.57	5.15	186.0	5.56
1351	29.80	16.80	137	4.53	5.09	191.0	4.73
1354	29.80	17.66	137	4.30	5.41	185.4	4.60
1357	29.80	18.12	136	3.99	5.59	167.1	1.96
1400	29.80	18.13	136	3.89	5.62	165.8	0.00
1403	29.80	18.13	136	3.82	5.63	165.6	0.00
1406	29.80	18.14	136	3.74	5.63	165.6	0.00

Time between recharge during sample collection: 3 min @ 1 CPM

Sampling Personnel Signature: [signature]
Date: 10/24/12

NOTES:

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

bgs = below ground surface
toc = top of casing
°C = degrees Celsius
µS = micro-Siemen
DO = dissolved oxygen
mg/L = milligrams per liter
Samples are analyzed immediately upon collection.

S.U. = standard units
ORP = oxidation reduction potential
mV = millivolt
NTU = nephelometric turbidity units

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Low-Flow Sampling Log

PROJECT NAME: Jackson Co. LF GW Sampling PROJECT NUMBER: 2040
LOCATION: Dillsboro, NC DATE: 10/23/2012
SAMPLING PERSONNEL: P Brooks, N Swaity WEATHER: 70s clear

Well ID: MW-03
Screen Interval: 48.5 - 63.5 bgs
Depth to Water: 52.84 toc
Stickup: 1.0' ft
Depth of Pump Intake: 60.5 toc
Drawdown Set: 53.14 toc

Arrive at Well: 1454
Start Time: 1505
Sample Time: 1530
Finish Sample Time: 1607
Leave Well: 1620
Well Diameter: 2"

COMMENTS:

Time	DTW (feet)	Temp (°C)	Specific Cond. (µS)	DO (mg/L)	pH (S.U.) *report to 0.1 S.U.*	ORP (mV)	Turbidity (NTU)
1506	53.14	17.73	291	3.40	4.93	169.4	19.68
1509	53.14	16.68	303	0.70	5.40	139.4	8.51
1512	53.14	16.53	291	0.61	4.76	175.3	1.58
1515	53.14	16.21	289	0.37	4.55	180.5	7.30
1518	53.14	16.25	290	0.31	4.81	165.1	6.79
1521	53.14	16.18	291	0.31	5.15	146.0	4.57
1524	53.14	16.18	291	0.24	5.18	144.7	3.92
1527	53.14	16.28	291	0.24	5.23	140.8	3.74
1530	53.14	16.32	291	0.25	5.53	134.6	3.44

Time between recharge during sample collection: 3 sec @ 3CPM

Sampling Personnel Signature: Date: 10/23/2012

NOTES:

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

bgs = below ground surface
toc = top of casing
°C = degrees Celsius
µS = micro-Siemen
DO = dissolved oxygen
mg/L = milligrams per liter
Samples are analyzed immediately upon collection.

S.U. = standard units
ORP = oxidation reduction potential
mV = millivolt
NTU = nephelometric turbidity units

QC pH 7.00 @ 1504
→ 7.02

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Low-Flow Sampling Log

PROJECT NAME: Jackson Co. LF GW Sampling
PROJECT NUMBER: 2040
LOCATION: Dillsboro, NC
DATE: 10/24/12
SAMPLING PERSONNEL: P Brooks, N Sinsky
WEATHER: 70s clear

Well ID: MW-03
Screen Interval: ~~52.90~~ ← bgs 48.5-63.5
Depth to Water: 52.90 toc
Stickup: 1'
Depth of Pump Intake: 60.5' toc
Drawdown Set: 53.20' toc

Arrive at Well: 1630
Start Time: 1639
Sample Time: 1654 microscopes started at 1659
Finish Sample Time: 1714 stopped 1714
Leave Well: 1730
Well Diameter: 2"

COMMENTS:

Time	DTW (feet)	Temp (°C)	Specific Cond. (µS)	DO (mg/L)	pH (S.U.) report to 0.1 S.U.	ORP (mV)	Turbidity (NTU)
1639	53.20	16.59	289	4.77	5.34	147.9	34.88
1642	53.20	16.56	288	2.15	5.46	237.4	16.96
1645	53.20	16.54	286	0.83	5.46	134.9	17.48
1648	53.20	16.14	287	0.53	5.34	143.1	15.95
1651	53.20	16.12	287	0.50	5.28	152.1	14.43
1654	53.20	16.09	287	0.50	5.22	160.1	13.94

Time between recharge during sample collection: 4 sec @ 3 GPM

Sampling Personnel Signature: [signature] Date: 10/24/12

NOTES:

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

bgs = below ground surface
toc = top of casing
°C = degrees Celsius
µS = micro-Siemen
DO = dissolved oxygen
mg/L = milligrams per liter
S.U. = standard units
ORP = oxidation reduction potential
mV = millivolt
NTU = nephelometric turbidity units
Samples are analyzed immediately upon collection.

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Low-Flow Sampling Log

PROJECT NAME: Jackson Co. LF GW Sampling
PROJECT NUMBER: 7040
LOCATION: Dillsboro, NC
DATE: 10/24/12
SAMPLING PERSONNEL: P Brooks
WEATHER: 60s, clear

Well ID: MW-04
Screen Interval: 27 - 43' bgs
Depth to Water: 28.25 toc
Stickup: 2'
Depth of Pump Intake: 37' toc
Drawdown Set: 28.55 toc

Arrive at Well: 959
Start Time: 1007
Sample Time: 1036
Finish Sample Time: 1106 start microscop @ 1107 stop @ 1122
Leave Well: 1130
Well Diameter: 2"

COMMENTS:

Time	DTW (feet)	Temp (°C)	Specific Cond. (µS)	DO (mg/L)	pH (S.U.) *report to 0.1 S.U.*	ORP (mV)	Turbidity (NTU)
1009	28.55	15.06	521	4.66	5.15	224.7	14.87
1012	28.55	15.07	515	2.16	4.34	293.1	7.69
1015	28.55	15.25	547	0.71	5.37	312.8	5.38
1018	28.55	14.97	528	0.36	5.29	367.4	4.06
1021	28.55	14.96	534	0.37	5.26	409.8	5.63
1024	28.55	14.95	540	0.25	5.26	466.4	4.65
1027	28.55	14.96	541	0.26	5.27	480.0	4.01
1030	28.55	14.97	541	0.23	5.27	498.9	0.01
1033	28.55	14.99	541	0.22	5.27	501.2	0.00
1036	28.55	15.00	540	0.21	5.27	502.0	0.00

Time between recharge during sample collection: 2 sec @ 3GPM

Sampling Personnel Signature:
Date: 10/24/12

NOTES:

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

QC pH 7 @ 1013 = 6.99

bgs = below ground surface
toc = top of casing
°C = degrees Celsius
µS = micro-Siemen
DO = dissolved oxygen
mg/L = milligrams per liter
Samples are analyzed immediately upon collection.

S.U. = standard units
ORP = oxidation reduction potential
mV = millivolt
NTU = nephelometric turbidity units

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Low-Flow Sampling Log

PROJECT NAME: Jackson Co. LF GW Sampling
PROJECT NUMBER: 2040
LOCATION: Dillsboro, NC
DATE: 10/23/2012
SAMPLING PERSONNEL: P Brooks, N Swartz
WEATHER: 70's, clear

Well ID: MW-05R
Screen Interval: 46.8-56.8 bgs
Depth to Water: 50.86 toc
Stickup: 2.5
Depth of Pump Intake: bailed toc
Drawdown Set: toc

Arrive at Well: 1426
Start Time: 1428
Sample Time: 1520 10/24/12
Finish Sample Time: 10/25/12
Leave Well:
Well Diameter: 2"

COMMENTS: Bailed dry after 3/4 gallon

Time	DTW (feet)	Temp (°C)	Specific Cond. (µS)	DO (mg/L)	pH (S.U.) *report to 0.1 S.U.*	ORP (mV)	Turbidity (NTU)
1430	50.86	19.08	671	~~28.4~~ 2.49	5.69	19.4	237.8
1520 10/24/12	51.20	18.27	599	3.11	5.72	18.2	531.6

Time between recharge during sample collection: long

Sampling Personnel Signature: [signature] Date: 10/24/12

NOTES:

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

bgs = below ground surface
toc = top of casing
°C = degrees Celsius
µS = micro-Siemen
DO = dissolved oxygen
mg/L = milligrams per liter
Samples are analyzed immediately upon collection.

S.U. = standard units
ORP = oxidation reduction potential
mV = millivolt
NTU = nephelometric turbidity units

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Low-Flow Sampling Log

PROJECT NAME: Jackson Co. Closed LF
PROJECT NUMBER: 2040
LOCATION: Dillsboro, NC
DATE: 10/23/2012
SAMPLING PERSONNEL: P Brooks, N Swaby
WEATHER: 70s clear

Well ID: MW-06
Screen Interval: 84.6 - 94.6 bgs
Depth to Water: ~~86.24~~ 86.42 toc
Stickup: 2.5
Depth of Pump Intake: 95" toc
Drawdown Set: ~~95~~ 86.72 toc

Arrive at Well: 1050
Start Time: 1056
Sample Time: 1120
Finish Sample Time: 1210 - started microscopy 1212 stopped @ 1228
Leave Well: 1243
Well Diameter: 2"

COMMENTS:

Time	DTW (feet)	Temp (°C)	Specific Cond. (µS)	DO (mg/L)	pH (S.U.) report to 0.1 S.U.	ORP (mV)	Turbidity (NTU)
1056	86.72	16.76	195	4.83	5.52	12.0	40.37
1059	86.72	16.15	150	1.32	5.31	5.5	11.81
1102	86.72	15.97	129	0.76	5.31	7.8	13.82
1105	86.72	15.96	121	0.59	5.32	8.8	8.19
1108	86.72	15.96	118	0.51	5.32	10.3	4.43
1111	~~15~~ 86.72	15.97	116	0.43	5.33	10.0	6.63
1114	86.72	15.97	116	0.43	5.33	10.1	2.11
1117	86.72	15.97	115	0.40	5.33	10.4	1.98
1120	86.72	15.99	114	0.37	5.33	10.3	1.81

Time between recharge during sample collection: ~~20 sec~~ 40 sec @ 3 CPM

Sampling Personnel Signature: [signature] Date: 10/23/12

NOTES:

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

bgs = below ground surface
toc = top of casing
°C = degrees Celsius
µS = micro-Siemen
DO = dissolved oxygen
mg/L = milligrams per liter
Samples are analyzed immediately upon collection.

S.U. = standard units
ORP = oxidation reduction potential
mV = millivolt
NTU = nephelometric turbidity units

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Low-Flow Sampling Log

PROJECT NAME: Jackson County LF GW Sampling PROJECT NUMBER: 2040
LOCATION: Dillsboro, NC DATE: 10/24/12
SAMPLING PERSONNEL: P Brooks, N Swicky WEATHER: 60s, clear

Well ID: MW-07
Screen Interval: 70 to 95' bgs
Depth to Water: ~~33~~ 33.17 toc
Stickup: 2'
Depth of Pump Intake: 90' toc
Drawdown Set: 34.17 toc

Arrive at Well: 1130
Start Time: 1133
Sample Time: 1152
Finish Sample Time: 1228 start microscop @ ~~1229~~ 1248
Leave Well: 1313 stop @ ~~1244~~ 1303
Well Diameter: 2"

COMMENTS:

Time	DTW (feet)	Temp (°C)	Specific Cond. (µS)	DO (mg/L)	pH (S.U.) *report to 0.1 S.U.*	ORP (mV)	Turbidity (NTU)
1134	33.37	15.91	439	10.03	6.05	84.5	32.49
1137	34.17	15.57	495	6.68	5.81	92.6	70.23
1140	34.17	15.28	533	1.67	5.64	97.2	46.46
1143	34.17	15.22	537	0.74	5.66	91.5	21.52
1146	34.17	15.19	531	0.53	5.69	85.4	8.17
1149	34.17	15.20	525	0.47	5.71	83.2	8.81
1152	34.17	15.17	519	0.43	5.72	81.6	8.20

Time between recharge during sample collection: 20 sec @ 3CPM

Sampling Personnel Signature: Date: 10/24/12

NOTES:

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

bgs = below ground surface
toc = top of casing
°C = degrees Celsius
µS = micro-Siemen
DO = dissolved oxygen
mg/L = milligrams per liter
Samples are analyzed immediately upon collection.

S.U. = standard units
ORP = oxidation reduction potential
mV = millivolt
NTU = nephelometric turbidity units

leaking microscop required fixing

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Jackson Co. LFGW Sampling Surface Water Sampling Log

PROJECT NAME:	~~Madison County Closed Landfill~~	DATE:	~~18-Oct-12~~ 10/24/12
PROJECT NUMBER:	~~2313~~ 2040	WEATHER:	70's, clear
SAMPLING PERSONNEL:	P. Brooks		

SAMPLE NAME: SW-01

COMMENTS: taken upstream of landfill as indicated on map

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

TIME	TEMP (°C)	SPECIFIC COND. (µS)	DISSOLVED OXYGEN (mg/L)	pH (S.U.) *report to 0.1 S.U.*	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1317	15.24	23	11.91	7.12	76.6	17.95	

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
500 mL PLASTIC		
250 mL PLASTIC	2	Metals by 6010 + 6020
125 mL PLASTIC	2	Cyanide, Sulfide
40 mL GLASS	3	App II VOCs
1 L GLASS	6	App II SVOCs, Pesticides, Herbicides
OTHER		

VEGETATION: ok ACCESS: ok

Sampling Personnel Signature: [signature] Date: 10/24/12

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

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Jackson Co. LF GW Sampling Surface Water Sampling Log

PROJECT NAME:	~~Madison County Closed Landfill~~	DATE:	~~18-Oct-12~~ 10/24/12
PROJECT NUMBER:	~~2313~~ 2040	WEATHER:	70s ~~cloud~~ clear
SAMPLING PERSONNEL:	P. Brooks		

SAMPLE NAME: SW-02

COMMENTS: taken downstream of landfill as indicated on figure map

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

TIME	TEMP (°C)	SPECIFIC COND. (µS)	DISSOLVED OXYGEN (mg/L)	pH (S.U.) *report to 0.1 S.U.*	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1426	16.06	22	10.65	6.53	132.9	8.46	

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
500 mL PLASTIC		
250 mL PLASTIC	2	~~Cyanide~~ Metals 6010, 6020
125 mL PLASTIC	2	Cyanide, Sulfide
40 mL GLASS	3	App II VOCs
1 L GLASS	6	App II SVOCs, Pesticides, Herbicides
OTHER		

VEGETATION: ok ACCESS: ok

Sampling Personnel Signature: [signature] ~~Date:~~ 10/24/12

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

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Well Sampling Log

PROJECT NAME: Jackson Co. LF GW Sampling	DATE: 10/25/12
PROJECT NUMBER: 2040	WEATHER: 70s clear
SAMPLING PERSONNEL: P Brooks	SAMPLE TIME: 1056
WELL NUMBER: LT-01	WELL DEPTH IN FEET (WD):
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: taken from influent line of leachate tank; very strong odor; fumes drawed from tank.	(LWC) x (WCV)
	THREE CASING VOLUMES: GALLONS
	ACTUAL VOLUME PURGED: GALLONS

WELL CASING VOLUMES (WCV)

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

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

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

READING	TIME	GALLONS PURGED	TEMP (°C)	SPECIFIC COND. (µS)	DISSOLVED OXYGEN (mg/L)	pH (S.U.) *report to 0.1 S.U.*	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	1056	/	19.19	5746	2.08	7.04	-37.9	7.95	
2									
3									
4									
5									
6									
7									
8									
9									
10									

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

PROTECTIVE CASING: ok PAD: ok LOCK: no VEGETATION: ok ACCESS: ok

Sampling Personnel Signature: Date: 10/25/12

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

very hard to get bubbles out; leachate is creating bubbles

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Sampling Log

FACILITY NAME: Jackson Co. LF GW Sampling
DATE: 10/25/12
LOCATION: Dillsboro, NC
SAMPLING TIME: 1211
SAMPLING PERSONNEL: PBrooks
WEATHER: 70s, clear

SAMPLE NAME: DW-01

START TIME: 1155
END TIME: 1215

COMMENTS: Collected from hose spigot beside garage (left of garage)
Wilkey residence

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

READING	TIME	TEMP (C°)	SPECIFIC COND. (µS)	DISSOLVED OXYGEN (mg/L)	pH (S.U.) 6.26	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	1155	13.41	50	3.81	~~6.08~~	185.2	0.71	0 gal purged
2	1201	14.80	44	3.41	6.49	163.7	3.86	10 gal purged
3	1206	14.44	43	3.72	6.10	215.2	1.77	20 gal purged
4	1211	14.56	43	4.76	6.01	196.4	0.00	30 gal purged
5								
6								
7								
8								
9								
10								
11								
12								

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

VEGETATION: ok ACCESS: ok

Sampling Personnel Signature: [signature] Date: 10/25/12

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

PROJECT NAME: Jackson Co, LF GW Sampling
DATE: 10/25/12
PROJECT NUMBER: 3040
WEATHER: 70s clear
SAMPLING PERSONNEL: P Brooks
SAMPLE TIME: 1147

WELL NUMBER: DW-02
WELL DIAMETER:
TYPE OF CASING:
MEASURING POINT:
FLUSH MOUNT / STICK-UP:
COMMENTS: taken from hose spicket inside well house (backyard) Bulla residence

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

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

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

READING	TIME	GALLONS PURGED	TEMP (°C)	SPECIFIC COND. (µS)	DISSOLVED OXYGEN (mg/L)	pH (S.U.) *report to 0.1 S.U.*	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	1135	0	15.34	53	8.04	6.54	53.3	61.06	
2	1138	10	14.23	34	6.04	5.65	107.2	10.57	
3	1141	20	14.23	32	6.19	5.57	194.6	8.77	
4	1147	30	14.27	34	4.88	5.55	256.3	9.34	
5									
6									
7									
8									
9									
10									

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

PROTECTIVE CASING: ok PAD: ok LOCK: no VEGETATION: ok ACCESS: ok

Sampling Personnel Signature: Date: 10/25/12

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

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Equipment Documentation & Instrument Calibration Data Sheet

Project Name: Jackson County Landfill GW Sampling
Project Number: 2040
Project Location: Dillsboro, NC

Calibration Documentation
Person Conducting Calibration: P Brooks
Date of Calibration: 10/23/2012
Date of Field Measurements: 10/23/2012

Equipment Documentation

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

Equipment Type	Serial Number	Brand	Date of Use
150-ft Water Level	26154	Solinist	
150-ft Water Level	22754	Solinist	
150-ft Water Level	150	Testwell	
150-ft Drawdown	MP30-1527	QED	10/23/12
Other			

Micro TPW Turbidity Meter

Calibration Standards Exp Date	Instrument Serial #	Instrument Reading		
		0.02 NTU	10.0 NTU	1000 NTU
8/13	200601045	Initial: 0.57	Initial: 8.97	Initial: 891.6
		Cal:	Cal:	Cal:
		Time:	Time:	Time:

YSI 556 Multiparameter Meter

Instrument Serial Number	07D100979						
Instrument Readings							Calibration Expiration Date
Dissolved Oxygen	Initial: 9.13	Cal: 8.97	mmHg: 760.0	Time: 805			NA
QC*	AM Time:	Meas:	Mid Day Time:	Check:	PM Time:	Check:	NA
pH 7 S.U. *report to 0.1 S.U.*	Initial: 7.03	pHmV:	Cal: 7.00	pHmV:	Time: 744	9/14 →	
pH 4 S.U. *report to 0.1 S.U.*	Initial: 3.98	pHmV:	Cal: 4.00	pHmV:	Time: 747	4/18 →	
pH 10 S.U. *report to 0.1 S.U.*	Initial: 10.00	pHmV:	Cal: 10.00	pHmV:	Time: 751	5/13 →	
QC* pH 7 S.U. *report to 0.1 S.U.*	AM Time: 821	Meas: 7.03	Mid Day Time:	Check:	PM Time:	Check:	
(100) Spec. Cond. 1413/447/84/23 mS**	Initial: 101	Cal: 100	Time: 740			R	7/13
QC* 84 mS	AM Time: 818	Meas: 100	Mid Day Time:	Check:	PM Time:	Check:	
258 ORP ~~240~~ mV	Initial: 252.4	Cal: 258.0	Time: 819				10/12/12 ← expiration date

Comments:
Signature: [signature] Date: 10/23/2012

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

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Equipment Documentation & Instrument Calibration Data Sheet

Project Name: Jackson Co. LF GW Sampling
Project Number: 2040
Project Location: Dillsboro, NC

Calibration Documentation
Person Conducting Calibration: P. Brooks
Date of Calibration: 10/24/12
Date of Field Measurements: 10/24/12

Equipment Documentation

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

Equipment Type	Serial Number	Brand	Date of Use
150-ft Water Level	26154	Solinist	
150-ft Water Level	22754	Solinist	
150-ft Water Level	150	Testwell	
150-ft Drawdown	MP30-1527	QED	10/24/12
Other			

Micro TPW Turbidity Meter

Calibration Standards Exp Date	Instrument Serial #	Instrument Reading		
		0.02 NTU	10.0 NTU	1000 NTU
8/13	200601045	Initial: 0.00	Initial: 9.60	Initial: 900.9
		Cal:	Cal: 10.0	Cal: 1000
		Time:	Time:	Time:

YSI 556 Multiparameter Meter

Instrument Serial Number	07D100979						
	Instrument Readings						Calibration Expiration Date
Dissolved Oxygen	Initial: 8.96	Cal: 8.90	mmHg: 760	Time: 755			NA
QC*	AM Time:	Meas:	Mid Day Time:	Check:	PM Time:	Check:	NA
pH 7 S.U. *report to 0.1 S.U.*	Initial: 7.03	pHmV:	Cal: 7.00	pHmV:	Time: 724		9/14
pH 4 S.U. *report to 0.1 S.U.*	Initial: 4.04	pHmV:	Cal: 4.00	pHmV:	Time: 730		4/13
pH 10 S.U. *report to 0.1 S.U.*	Initial: 10.07	pHmV:	Cal: 10.01	pHmV:	Time: 742		5/13
QC* pH 7 S.U. *report to 0.1 S.U.*	AM Time: 805	Meas: 7.02	Mid Day Time:	Check:	PM Time:	Check:	
Spec. Cond. ~~1413/447/84/23~~ mS** (100)	Initial: 100	Cal: 100	Time: 721				7/13
QC* 84 mS /100	AM Time: 804	Meas: 99	Mid Day Time:	Check:	PM Time:	Check:	
ORP 240 mV	Initial: 250.7	Cal: 258.0	Time: 8:03				10/12/12 ← exp date

Comments:

Signature: Date: 10/24/12

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

ALTAMONT ENVIRONMENTAL, INC.
ENGINEERING & HYDROGEOLOGY
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TEL.828.281.3350 FAC.828.281.3351
WWW.ALTAMONTENVIRONMENTAL.COM

Equipment Documentation & Instrument Calibration Data Sheet

Project Name: Jackson Co. LF GW Sampling
Project Number: 2040
Project Location: Dillsboro, NC

Calibration Documentation
Person Conducting Calibration: P Brodz
Date of Calibration: 10/25/12
Date of Field Measurements: 10/25/12

Equipment Documentation

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

Equipment Type	Serial Number	Brand	Date of Use
150-ft Water Level	26154	Solinist	
150-ft Water Level	22754	Solinist	
150-ft Water Level	150	Testwell	
150-ft Drawdown	MP30-1527	QED	10/25/12
Other			

Micro TPW Turbidity Meter

Calibration Standards Exp Date	Instrument Serial #	Instrument Reading		
		0.02 NTU	10.0 NTU	1000 NTU
8/13	200601045	Initial: 0.00	Initial: 11.85	Initial: 840.0
		Cal: 0.02	Cal: 10.00	Cal: 1000
		Time: 827	Time: 824	Time: 823

YSI 556 Multiparameter Meter

Instrument Serial Number	07D100979						
Instrument Readings							Calibration Expiration Date
Dissolved Oxygen	Initial: 9.07	Cal: 9.19	mmHg: 760	Time: 832			NA
QC*	AM Time:	Meas:	Mid Day Time:	Check:	PM Time:	Check:	NA
pH 7 S.U. *report to 0.1 S.U.*	Initial: 6.96	pHmV:	Cal: 7.00	pHmV:	Time: 810		9/14
pH 4 S.U. *report to 0.1 S.U.*	Initial: 3.96	pHmV:	Cal: 4.00	pHmV:	Time: 818		4/13
pH 10 S.U. *report to 0.1 S.U.*	Initial: 10.07	pHmV:	Cal: 10.01	pHmV:	Time: 822		5/13
QC* pH 7 S.U. *report to 0.1 S.U.*	AM Time: 850	Meas: 7.01	Mid Day Time:	Check:	PM Time:	Check:	
(100) Spec. Cond. ~~1413/447/84/23~~ mS**	Initial: 100	Cal: 100	Time: 801				7/13
QC* ~~84~~ 100 mS	AM Time: 849	Meas: 100	Mid Day Time:	Check:	PM Time:	Check:	
(258) ORP ~~240~~ mV	Initial: 265.0	Cal: 258.0	Time: 848				10/12/12 ← mix date

Comments:
Signature: [signature] Date: 10/25/12

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

APPENDIX B

Reports of Laboratory Analysis and Chain-of-Custody Documentation

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(704)875-9092

November 16, 2012

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

RE: Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Dear Mr. Lenk:
Enclosed are the analytical results for sample(s) received by the laboratory between October 24, 2012 and October 25, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

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

Sincerely,

Lorri Patton

Lorri Patton

lorri.patton@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Hawaii Certification #Pace
Idaho Certification #: MN00064
Illinois Certification #: 200011
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nebraska Certification #: Pace
Nevada Certification #: MN_00064
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia/DCLS Certification #: 002521
Virginia/VELAP Certification #: 460163
Washington Certification #: C754
West Virginia Certification #: 382
Wisconsin Certification #: 999407970

Ormond Beach Certification IDs
8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Arizona Certification #: AZ0735
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maine Certification #: FL01264
Massachusetts Certification #: M-FL1264
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
New Jersey Certification #: FL765
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Pace Analytical Services - Ormond certification number E83509
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Washington Certification #: C955
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

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

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

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(704)875-9092

SAMPLE SUMMARY

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92136280001	**MW-06**	Water	10/23/12 11:20	10/24/12 11:42
92136280002	**MW-01**	Water	10/23/12 13:22	10/24/12 11:42
92136280003	**TRIP BLANK**	Water	10/23/12 00:00	10/24/12 11:42
92136280004	**MW-02**	Water	10/24/12 14:06	10/25/12 09:22
92136280005	**MW-03**	Water	10/23/12 15:30	10/25/12 09:22
92136280006	**MW-04**	Water	10/24/12 10:36	10/25/12 09:22
92136280007	**MW-07**	Water	10/24/12 11:52	10/25/12 09:22
92136280008	**SW-01**	Water	10/24/12 13:17	10/25/12 09:22
92136280009	**SW-02**	Water	10/24/12 14:26	10/25/12 09:22
92136280010	**Trip Blank**	Water	10/23/12 00:00	10/25/12 09:22
92136280011	**MW-05R**	Water	10/24/12 15:20	10/25/12 15:41
92136280012	**DW-01**	Water	10/25/12 12:11	10/25/12 15:41
92136280013	**DW-02**	Water	10/25/12 11:47	10/25/12 15:41
92136280014	**LT-01**	Water	10/25/12 10:56	10/25/12 15:41
92136280015	**TRIP BLANK**	Water	10/25/12 00:00	10/25/12 15:41

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SAMPLE ANALYTE COUNT

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92136280001	**MW-06**	RSK 175	SK4	3	PASI-M
		EPA 8082	MEJ	8	PASI-C
		EPA 8151	LJM	6	PASI-O
		EPA 6010	JMW	16	PASI-A
		EPA 6020	RJS	1	PASI-M
		EPA 7470	SH1	1	PASI-A
		EPA 8270	PPM	152	PASI-C
		EPA 8260	MCK	69	PASI-C
		SM 2320B	KCS	1	PASI-A
		SM 3500-Fe D#4	EWS	1	PASI-A
		SM 4500-S2D	AES	1	PASI-A
		SM 5210B	JTM	1	PASI-A
		EPA 300.0	AES	1	PASI-A
		EPA 353.2	LMD	1	PASI-A
		SM 4500-Cl-E	DMN	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
		SM 5220D	AES	1	PASI-A
		SM 5310B	AES	1	PASI-A
92136280002	**MW-01**	RSK 175	SK4	3	PASI-M
		EPA 8082	MEJ	8	PASI-C
		EPA 8151	LJM	6	PASI-O
		EPA 6010	JMW	16	PASI-A
		EPA 6020	RJS	1	PASI-M
		EPA 7470	SH1	1	PASI-A
		EPA 8270	PPM	152	PASI-C
		EPA 8260	MCK	69	PASI-C
		SM 2320B	KCS	1	PASI-A
		SM 3500-Fe D#4	EWS	1	PASI-A
		SM 4500-S2D	AES	1	PASI-A
		SM 5210B	LMD	1	PASI-A
		EPA 300.0	AES	1	PASI-A
		EPA 353.2	LMD	1	PASI-A
		SM 4500-Cl-E	DMN	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
		SM 5220D	AES	1	PASI-A
		SM 5310B	AES	1	PASI-A
92136280003	**TRIP BLANK**	EPA 8260	MCK	69	PASI-C

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SAMPLE ANALYTE COUNT

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92136280004	**MW-02**	RSK 175	SK4	3	PASI-M
		EPA 8082	MEJ	8	PASI-C
		EPA 8151	LJM	6	PASI-O
		EPA 6010	JMW	16	PASI-A
		EPA 6020	RJS	1	PASI-M
		EPA 7470	SH1	1	PASI-A
		EPA 8270	PPM	152	PASI-C
		EPA 8260	KJM	69	PASI-C
		SM 2320B	KCS	1	PASI-A
		SM 3500-Fe D#4	EWS	1	PASI-A
		SM 4500-S2D	AES	1	PASI-A
		SM 5210B	JTM	1	PASI-A
		EPA 300.0	AES	1	PASI-A
		EPA 353.2	EWS	1	PASI-A
		SM 4500-Cl-E	DMN	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
		SM 5220D	AES	1	PASI-A
		SM 5310B	AES	1	PASI-A
92136280005	**MW-03**	RSK 175	SK4	3	PASI-M
		EPA 8082	MEJ	8	PASI-C
		EPA 8151	LJM	6	PASI-O
		EPA 6010	JMW	16	PASI-A
		EPA 6020	RJS	1	PASI-M
		EPA 7470	SH1	1	PASI-A
		EPA 8270	PPM	152	PASI-C
		EPA 8260	KJM	69	PASI-C
		SM 2320B	KCS	1	PASI-A
		SM 3500-Fe D#4	EWS	1	PASI-A
		SM 4500-S2D	AES	1	PASI-A
		SM 5210B	JTM	1	PASI-A
		EPA 300.0	AES	1	PASI-A
		EPA 353.2	EWS	1	PASI-A
		SM 4500-Cl-E	DMN	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
		SM 5220D	AES	1	PASI-A
		SM 5310B	AES	1	PASI-A
92136280006	**MW-04**	RSK 175	SK4	3	PASI-M

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SAMPLE ANALYTE COUNT

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8082	MEJ	8	PASI-C
		EPA 8151	LJM	6	PASI-O
		EPA 6010	JMW	16	PASI-A
		EPA 6020	RJS	1	PASI-M
		EPA 7470	SH1	1	PASI-A
		EPA 8270	PPM	152	PASI-C
		EPA 8260	KJM	69	PASI-C
		SM 2320B	KCS	1	PASI-A
		SM 3500-Fe D#4	EWS	1	PASI-A
		SM 4500-S2D	AES	1	PASI-A
		SM 5210B	JTM	1	PASI-A
		EPA 300.0	AES	1	PASI-A
		EPA 353.2	EWS	1	PASI-A
		SM 4500-Cl-E	DMN	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
		SM 5220D	AES	1	PASI-A
		SM 5310B	AES	1	PASI-A
92136280007	**MW-07**	RSK 175	SK4	3	PASI-M
		EPA 8082	MEJ	8	PASI-C
		EPA 8151	LJM	6	PASI-O
		EPA 6010	JMW	16	PASI-A
		EPA 6020	RJS	1	PASI-M
		EPA 7470	SH1	1	PASI-A
		EPA 8270	PPM	152	PASI-C
		EPA 8260	KJM	69	PASI-C
		SM 2320B	KCS	1	PASI-A
		SM 3500-Fe D#4	EWS	1	PASI-A
		SM 4500-S2D	AES	1	PASI-A
		SM 5210B	JTM	1	PASI-A
		EPA 300.0	AES	1	PASI-A
		EPA 353.2	EWS	1	PASI-A
		SM 4500-Cl-E	DMN	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
		SM 5220D	AES	1	PASI-A
		SM 5310B	AES	1	PASI-A
92136280008	**SW-01**	EPA 8082	MEJ	8	PASI-C
		EPA 8151	LJM	6	PASI-O

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SAMPLE ANALYTE COUNT

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010	JMW	16	PASI-A
		EPA 6020	RJS	1	PASI-M
		EPA 7470	SH1	1	PASI-A
		EPA 8270	PPM	152	PASI-C
		EPA 8260	KJM	69	PASI-C
		SM 4500-S2D	AES	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92136280009	**SW-02**	EPA 8082	MEJ	8	PASI-C
		EPA 8151	LJM	6	PASI-O
		EPA 6010	JMW	16	PASI-A
		EPA 6020	RJS	1	PASI-M
		EPA 7470	SH1	1	PASI-A
		EPA 8270	PPM	152	PASI-C
		EPA 8260	KJM	69	PASI-C
		SM 4500-S2D	AES	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92136280010	**Trip Blank**	EPA 8260	KJM	69	PASI-C
92136280011	**MW-05R**	RSK 175	SK4	3	PASI-M
		EPA 8082	MEJ	8	PASI-C
		EPA 8151	LJM	6	PASI-O
		EPA 6010	JMW	16	PASI-A
		EPA 6020	RJS	1	PASI-M
		EPA 7470	SH1	1	PASI-A
		EPA 8270	PPM	152	PASI-C
		EPA 8260	KJM	69	PASI-C
		SM 2320B	KCS	1	PASI-A
		SM 3500-Fe D#4	EWS	1	PASI-A
		SM 4500-S2D	AES	1	PASI-A
		SM 5210B	JBH	1	PASI-A
		EPA 300.0	AES	1	PASI-A
		EPA 353.2	LMD	1	PASI-A
		SM 4500-Cl-E	DMN	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
		SM 5220D	AES	1	PASI-A
		SM 5310B	AES	1	PASI-A
92136280012	**DW-01**	EPA 524.2	JBH	25	PASI-O
92136280013	**DW-02**	EPA 524.2	JBH	25	PASI-O

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(704)875-9092

SAMPLE ANALYTE COUNT

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92136280014	**LT-01**	EPA 8260	KJM	69	PASI-C
92136280015	**TRIP BLANK**	EPA 8260	KJM	69	PASI-C

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-06 **Lab ID: 92136280001** Collected: 10/23/12 11:20 Received: 10/24/12 11:42 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	6.2	0.86	1		10/25/12 17:41	74-84-0	
Ethene	ND	ug/L	6.2	0.79	1		10/25/12 17:41	74-85-1	
Methane	**21.1**	ug/L	6.6	3.3	1		10/25/12 17:41	74-82-8	
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3510								
PCB-1016 (Aroclor 1016)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 19:15	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 19:15	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 19:15	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 19:15	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 19:15	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 19:15	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 19:15	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	89	%	10-132		1	10/26/12 10:15	11/01/12 19:15	2051-24-3	
8151 Chlorinated Herbicides	Analytical Method: EPA 8151 Preparation Method: EPA 8151								
2,4-D	ND	ug/L	0.97	0.23	1	10/26/12 08:15	10/27/12 10:13	94-75-7	
Dinoseb	ND	ug/L	0.20	0.059	1	10/26/12 08:15	10/27/12 10:13	88-85-7	M1
Pentachlorophenol	ND	ug/L	0.029	0.018	1	10/26/12 08:15	10/27/12 10:13	87-86-5	
2,4,5-T	ND	ug/L	0.20	0.043	1	10/26/12 08:15	10/27/12 10:13	93-76-5	
2,4,5-TP (Silvex)	ND	ug/L	0.20	0.051	1	10/26/12 08:15	10/27/12 10:13	93-72-1	
Surrogates									
2,4-DCAA (S)	141	%	42-142		1	10/26/12 08:15	10/27/12 10:13	19719-28-9	
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	5.0	1	10/25/12 18:55	10/31/12 04:11	7440-36-0	
Arsenic	ND	ug/L	5.0	5.0	1	10/25/12 18:55	10/31/12 04:11	7440-38-2	
Barium	**76.9**	ug/L	5.0	5.0	1	10/25/12 18:55	10/31/12 04:11	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	10/25/12 18:55	10/31/12 04:11	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	10/25/12 18:55	10/31/12 04:11	7440-43-9	
Chromium	ND	ug/L	5.0	5.0	1	10/25/12 18:55	10/31/12 04:11	7440-47-3	
Cobalt	**120**	ug/L	5.0	5.0	1	10/25/12 18:55	10/31/12 04:11	7440-48-4	
Copper	ND	ug/L	5.0	5.0	1	10/25/12 18:55	10/31/12 04:11	7440-50-8	
Lead	ND	ug/L	5.0	5.0	1	10/25/12 18:55	10/31/12 04:11	7439-92-1	
Nickel	**17.7**	ug/L	5.0	5.0	1	10/25/12 18:55	10/31/12 04:11	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	10/25/12 18:55	10/31/12 04:11	7782-49-2	
Silver	ND	ug/L	5.0	5.0	1	10/25/12 18:55	10/31/12 04:11	7440-22-4	
Thallium	ND	ug/L	5.4	5.4	1	10/25/12 18:55	10/31/12 04:11	7440-28-0	
Tin	ND	ug/L	5.0	5.0	1	10/25/12 18:55	10/31/12 04:11	7440-31-5	
Vanadium	ND	ug/L	5.0	5.0	1	10/25/12 18:55	10/31/12 04:11	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	10/25/12 18:55	10/31/12 04:11	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Thallium	**0.68**	ug/L	0.10	0.019	1	10/29/12 14:05	11/14/12 21:44	7440-28-0	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-06 **Lab ID: 92136280001** Collected: 10/23/12 11:20 Received: 10/24/12 11:42 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	11/02/12 16:20	11/05/12 12:39	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270		Preparation Method: EPA 3510						
Acenaphthene	ND	ug/L	10.0	0.25	1	10/26/12 15:30	10/30/12 11:57	83-32-9	
Acenaphthylene	ND	ug/L	10.0	0.21	1	10/26/12 15:30	10/30/12 11:57	208-96-8	
Acetophenone	ND	ug/L	10.0	0.99	1	10/26/12 15:30	10/30/12 11:57	98-86-2	
2-Acetylaminofluorene	ND	ug/L	20.0	5.8	1	10/26/12 15:30	10/30/12 11:57	53-96-3	
4-Aminobiphenyl	ND	ug/L	10.0	5.2	1	10/26/12 15:30	10/30/12 11:57	92-67-1	
Aniline	ND	ug/L	10.0	2.0	1	10/26/12 15:30	10/30/12 11:57	62-53-3	
Anthracene	ND	ug/L	10.0	0.14	1	10/26/12 15:30	10/30/12 11:57	120-12-7	
Aramite	ND	ug/L	100	4.9	1	10/26/12 15:30	10/30/12 11:57	140-57-8	
Atrazine	ND	ug/L	20.0	6.5	1	10/26/12 15:30	10/30/12 11:57	1912-24-9	
Benzal chloride	ND	ug/L	50.0	3.9	1	10/26/12 15:30	10/30/12 11:57	98-87-3	
Benzaldehyde	ND	ug/L	20.0	12.0	1	10/26/12 15:30	10/30/12 11:57	100-52-7	
Benzidine	ND	ug/L	50.0	5.1	1	10/26/12 15:30	10/30/12 11:57	92-87-5	
Benzo(a)anthracene	ND	ug/L	10.0	0.33	1	10/26/12 15:30	10/30/12 11:57	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	0.30	1	10/26/12 15:30	10/30/12 11:57	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	0.28	1	10/26/12 15:30	10/30/12 11:57	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	0.38	1	10/26/12 15:30	10/30/12 11:57	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	0.43	1	10/26/12 15:30	10/30/12 11:57	207-08-9	
Benzoic Acid	ND	ug/L	50.0	11.5	1	10/26/12 15:30	10/30/12 11:57	65-85-0	
Benzophenone	ND	ug/L	10.0	4.9	1	10/26/12 15:30	10/30/12 11:57	119-61-9	
Benzyl alcohol	ND	ug/L	20.0	2.4	1	10/26/12 15:30	10/30/12 11:57	100-51-6	
Biphenyl (Diphenyl)	ND	ug/L	10.0	1.0	1	10/26/12 15:30	10/30/12 11:57	92-52-4	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.82	1	10/26/12 15:30	10/30/12 11:57	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	0.79	1	10/26/12 15:30	10/30/12 11:57	85-68-7	
Caprolactam	ND	ug/L	10.0	2.1	1	10/26/12 15:30	10/30/12 11:57	105-60-2	
Carbazole	ND	ug/L	10.0	0.54	1	10/26/12 15:30	10/30/12 11:57	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	20.0	3.7	1	10/26/12 15:30	10/30/12 11:57	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	10/26/12 15:30	10/30/12 11:57	106-47-8	
Chlorobenzilate	ND	ug/L	10.0	4.5	1	10/26/12 15:30	10/30/12 11:57	510-15-6	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.92	1	10/26/12 15:30	10/30/12 11:57	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.0	1	10/26/12 15:30	10/30/12 11:57	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	0.95	1	10/26/12 15:30	10/30/12 11:57	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.0	0.98	1	10/26/12 15:30	10/30/12 11:57	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.3	1	10/26/12 15:30	10/30/12 11:57	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.87	1	10/26/12 15:30	10/30/12 11:57	7005-72-3	
Chrysene	ND	ug/L	10.0	0.21	1	10/26/12 15:30	10/30/12 11:57	218-01-9	
n-Decane	ND	ug/L	10.0	0.91	1	10/26/12 15:30	10/30/12 11:57	124-18-5	
Diallate	ND	ug/L	10.0	5.4	1	10/26/12 15:30	10/30/12 11:57	2303-16-4	
Dibenz(a,h)anthracene	ND	ug/L	10.0	0.55	1	10/26/12 15:30	10/30/12 11:57	53-70-3	
Dibenzo(a,e)pyrene	ND	ug/L	50.0	3.4	1	10/26/12 15:30	10/30/12 11:57	192-65-4	
Dibenzofuran	ND	ug/L	10.0	0.89	1	10/26/12 15:30	10/30/12 11:57	132-64-9	
2,3-Dibromo-1-propanol phosph	ND	ug/L	75.0	8.0	1	10/26/12 15:30	10/30/12 11:57	126-72-7	
1,2-Dichlorobenzene	ND	ug/L	10.0	0.88	1	10/26/12 15:30	10/30/12 11:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	0.81	1	10/26/12 15:30	10/30/12 11:57	541-73-1	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-06 **Lab ID: 92136280001** Collected: 10/23/12 11:20 Received: 10/24/12 11:42 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
1,4-Dichlorobenzene	**3.0J**	ug/L	10.0	0.95	1	10/26/12 15:30	10/30/12 11:57	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.1	1	10/26/12 15:30	10/30/12 11:57	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.7	1	10/26/12 15:30	10/30/12 11:57	120-83-2	
2,6-Dichlorophenol	ND	ug/L	10.0	5.7	1	10/26/12 15:30	10/30/12 11:57	87-65-0	
2,3-Dichloroaniline	ND	ug/L	10.0	3.2	1	10/26/12 15:30	10/30/12 11:57	99-09-2	
Diethylphthalate	ND	ug/L	10.0	0.58	1	10/26/12 15:30	10/30/12 11:57	84-66-2	
Dimethoate	ND	ug/L	10.0	4.9	1	10/26/12 15:30	10/30/12 11:57	60-51-5	
P-Dimethylaminoazobenzene	ND	ug/L	5.0	2.7	1	10/26/12 15:30	10/30/12 11:57	60-11-7	
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10.0	4.9	1	10/26/12 15:30	10/30/12 11:57	57-97-6	
3,3'-Dimethylbenzidine	ND	ug/L	10.0	9.6	1	10/26/12 15:30	10/30/12 11:57	119-93-7	
2,4-Dimethylphenol	ND	ug/L	10.0	1.2	1	10/26/12 15:30	10/30/12 11:57	105-67-9	
a,a-Dimethylphenylethylamine	ND	ug/L	50.0	8.4	1	10/26/12 15:30	10/30/12 11:57	122-09-8	
Dimethylphthalate	ND	ug/L	10.0	0.76	1	10/26/12 15:30	10/30/12 11:57	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	0.75	1	10/26/12 15:30	10/30/12 11:57	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	2.6	1	10/26/12 15:30	10/30/12 11:57	534-52-1	
1,3-Dinitrobenzene	ND	ug/L	20.0	5.1	1	10/26/12 15:30	10/30/12 11:57	99-65-0	
1,4-Dinitrobenzene	ND	ug/L	20.0	5.0	1	10/26/12 15:30	10/30/12 11:57	100-25-4	
2,4-Dinitrophenol	ND	ug/L	50.0	9.0	1	10/26/12 15:30	10/30/12 11:57	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.90	1	10/26/12 15:30	10/30/12 11:57	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	0.98	1	10/26/12 15:30	10/30/12 11:57	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	0.66	1	10/26/12 15:30	10/30/12 11:57	117-84-0	
Dinoseb	ND	ug/L	20.0	5.7	1	10/26/12 15:30	10/30/12 11:57	88-85-7	
Diphenylamine	ND	ug/L	10.0	1.0	1	10/26/12 15:30	10/30/12 11:57	122-39-4	
Diphenyl ether (Phenyl ether)	ND	ug/L	20.0	4.6	1	10/26/12 15:30	10/30/12 11:57	101-84-8	
1,2-Diphenylhydrazine	ND	ug/L	10.0	0.90	1	10/26/12 15:30	10/30/12 11:57	122-66-7	
Disulfoton	ND	ug/L	10.0	5.5	1	10/26/12 15:30	10/30/12 11:57	298-04-4	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	0.79	1	10/26/12 15:30	10/30/12 11:57	117-81-7	
Ethyl methanesulfonate	ND	ug/L	20.0	5.6	1	10/26/12 15:30	10/30/12 11:57	62-50-0	
Famphur	ND	ug/L	10.0	3.7	1	10/26/12 15:30	10/30/12 11:57	52-85-7	
Fluoranthene	ND	ug/L	10.0	0.21	1	10/26/12 15:30	10/30/12 11:57	206-44-0	
Fluorene	ND	ug/L	10.0	0.21	1	10/26/12 15:30	10/30/12 11:57	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.94	1	10/26/12 15:30	10/30/12 11:57	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	0.72	1	10/26/12 15:30	10/30/12 11:57	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	0.88	1	10/26/12 15:30	10/30/12 11:57	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.1	1	10/26/12 15:30	10/30/12 11:57	67-72-1	
Hexachlorophene	ND	ug/L	100	28.0	1	10/26/12 15:30	10/30/12 11:57	70-30-4	
Hexachloropropene	ND	ug/L	10.0	3.2	1	10/26/12 15:30	10/30/12 11:57	1888-71-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	0.29	1	10/26/12 15:30	10/30/12 11:57	193-39-5	
Isodrin	ND	ug/L	20.0	5.7	1	10/26/12 15:30	10/30/12 11:57	465-73-6	
Isophorone	ND	ug/L	10.0	0.89	1	10/26/12 15:30	10/30/12 11:57	78-59-1	
Isosafrole	ND	ug/L	10.0	4.4	1	10/26/12 15:30	10/30/12 11:57	120-58-1	
Kepone	ND	ug/L	10.0	8.3	1	10/26/12 15:30	10/30/12 11:57	143-50-0	
Methapyrilene	ND	ug/L	50.0	5.8	1	10/26/12 15:30	10/30/12 11:57	91-80-5	
3-Methylcholanthrene	ND	ug/L	10.0	2.6	1	10/26/12 15:30	10/30/12 11:57	56-49-5	
4,4'-Methylene-bis(2-chloroani	ND	ug/L	50.0	12.0	1	10/26/12 15:30	10/30/12 11:57	101-14-4	
Methyl methanesulfonate	ND	ug/L	5.0	3.7	1	10/26/12 15:30	10/30/12 11:57	66-27-3	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-06 **Lab ID: 92136280001** Collected: 10/23/12 11:20 Received: 10/24/12 11:42 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
1-Methylnaphthalene	ND	ug/L	10.0	0.32	1	10/26/12 15:30	10/30/12 11:57	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	0.28	1	10/26/12 15:30	10/30/12 11:57	91-57-6	
2-Methyl-5-nitroaniline	ND	ug/L	10.0	5.2	1	10/26/12 15:30	10/30/12 11:57	99-55-8	
Methyl parathion	ND	ug/L	10.0	4.9	1	10/26/12 15:30	10/30/12 11:57	298-00-0	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.6	1	10/26/12 15:30	10/30/12 11:57	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	2.0	1	10/26/12 15:30	10/30/12 11:57		
1-Naphthalenamine	ND	ug/L	5.0	4.1	1	10/26/12 15:30	10/30/12 11:57	134-32-7	
2-Naphthalenamine	ND	ug/L	5.0	3.0	1	10/26/12 15:30	10/30/12 11:57	91-59-8	
Naphthalene	ND	ug/L	10.0	0.34	1	10/26/12 15:30	10/30/12 11:57	91-20-3	
1,4-Naphthoquinone	ND	ug/L	5.0	3.3	1	10/26/12 15:30	10/30/12 11:57	130-15-4	
2-Nitroaniline	ND	ug/L	50.0	2.0	1	10/26/12 15:30	10/30/12 11:57	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	2.0	1	10/26/12 15:30	10/30/12 11:57	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	2.1	1	10/26/12 15:30	10/30/12 11:57	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.1	1	10/26/12 15:30	10/30/12 11:57	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	0.91	1	10/26/12 15:30	10/30/12 11:57	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	4.1	1	10/26/12 15:30	10/30/12 11:57	100-02-7	
4-Nitroquinoline-n-oxide	ND	ug/L	50.0	13.0	1	10/26/12 15:30	10/30/12 11:57	56-57-5	
5-Nitro-o-toluidine	ND	ug/L	10.0	5.2	1	10/26/12 15:30	10/30/12 11:57	99-55-8	
N-Nitrosodiethylamine	ND	ug/L	20.0	5.6	1	10/26/12 15:30	10/30/12 11:57	55-18-5	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.91	1	10/26/12 15:30	10/30/12 11:57	62-75-9	
N-Nitroso-di-n-butylamine	ND	ug/L	10.0	7.5	1	10/26/12 15:30	10/30/12 11:57	924-16-3	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.99	1	10/26/12 15:30	10/30/12 11:57	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.0	1	10/26/12 15:30	10/30/12 11:57	86-30-6	
N-Nitrosomethylethylamine	ND	ug/L	10.0	4.7	1	10/26/12 15:30	10/30/12 11:57	10595-95-6	
N-Nitrosomorpholine	ND	ug/L	10.0	6.7	1	10/26/12 15:30	10/30/12 11:57	59-89-2	
N-Nitrosopiperidine	ND	ug/L	20.0	5.7	1	10/26/12 15:30	10/30/12 11:57	100-75-4	
N-Nitrosopyrrolidine	ND	ug/L	10.0	6.9	1	10/26/12 15:30	10/30/12 11:57	930-55-2	
n-Octadecane	ND	ug/L	10.0	0.84	1	10/26/12 15:30	10/30/12 11:57	593-45-3	
O,O,O-Triethylphosphorothioate	ND	ug/L	10.0	5.1	1	10/26/12 15:30	10/30/12 11:57	126-68-1	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	0.95	1	10/26/12 15:30	10/30/12 11:57	108-60-1	
Parathion (Ethyl parathion)	ND	ug/L	10.0	5.1	1	10/26/12 15:30	10/30/12 11:57	56-38-2	
Pentachlorobenzene	ND	ug/L	10.0	4.3	1	10/26/12 15:30	10/30/12 11:57	608-93-5	
Pentachloroethane	ND	ug/L	20.0	3.3	1	10/26/12 15:30	10/30/12 11:57	76-01-7	
Pentachloronitrobenzene	ND	ug/L	20.0	4.8	1	10/26/12 15:30	10/30/12 11:57	82-68-8	
Pentachlorophenol	ND	ug/L	25.0	4.6	1	10/26/12 15:30	10/30/12 11:57	87-86-5	
Phenacetin	ND	ug/L	20.0	4.8	1	10/26/12 15:30	10/30/12 11:57	62-44-2	
Phenanthrene	ND	ug/L	10.0	0.22	1	10/26/12 15:30	10/30/12 11:57	85-01-8	
Phenol	ND	ug/L	10.0	1.9	1	10/26/12 15:30	10/30/12 11:57	108-95-2	
p-Phenylenediamine	ND	ug/L	10.0	6.7	1	10/26/12 15:30	10/30/12 11:57	106-50-3	
Phorate	ND	ug/L	10.0	5.4	1	10/26/12 15:30	10/30/12 11:57	298-02-2	
Phthalic anhydride	ND	ug/L	75.0	5.9	1	10/26/12 15:30	10/30/12 11:57	85-44-9	
2-Picoline	ND	ug/L	10.0	4.3	1	10/26/12 15:30	10/30/12 11:57	109-06-8	
Pronamide	ND	ug/L	10.0	5.8	1	10/26/12 15:30	10/30/12 11:57	23950-58-5	
Pyrene	ND	ug/L	10.0	0.19	1	10/26/12 15:30	10/30/12 11:57	129-00-0	
Pyridine	ND	ug/L	10.0	1.6	1	10/26/12 15:30	10/30/12 11:57	110-86-1	
Safrole	ND	ug/L	10.0	5.7	1	10/26/12 15:30	10/30/12 11:57	94-59-7	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-06 **Lab ID: 92136280001** Collected: 10/23/12 11:20 Received: 10/24/12 11:42 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Sulfotepp (Thiodiphosphoric Ac	ND	ug/L	20.0	6.1	1	10/26/12 15:30	10/30/12 11:57	3689-24-5	
Terpineol	ND	ug/L	10.0	5.2	1	10/26/12 15:30	10/30/12 11:57	98-55-5	
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10.0	4.0	1	10/26/12 15:30	10/30/12 11:57	95-94-3	
2,3,4,6-Tetrachlorophenol	ND	ug/L	10.0	1.2	1	10/26/12 15:30	10/30/12 11:57	58-90-2	
Thionazin	ND	ug/L	20.0	4.8	1	10/26/12 15:30	10/30/12 11:57	297-97-2	
2,6-Toluene diisocyanate	ND	ug/L	10.0	5.0	1	10/26/12 15:30	10/30/12 11:57	91-08-7	
O-Toluidine	ND	ug/L	10.0	5.7	1	10/26/12 15:30	10/30/12 11:57	95-53-4	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.98	1	10/26/12 15:30	10/30/12 11:57	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	0.92	1	10/26/12 15:30	10/30/12 11:57	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.3	1	10/26/12 15:30	10/30/12 11:57	88-06-2	
1,3,5-Trinitrobenzene	ND	ug/L	10.0	5.2	1	10/26/12 15:30	10/30/12 11:57	99-35-4	
Surrogates									
Nitrobenzene-d5 (S)	60	%	21-110		1	10/26/12 15:30	10/30/12 11:57	4165-60-0	
2-Fluorobiphenyl (S)	63	%	27-110		1	10/26/12 15:30	10/30/12 11:57	321-60-8	
Terphenyl-d14 (S)	98	%	31-107		1	10/26/12 15:30	10/30/12 11:57	1718-51-0	
Phenol-d6 (S)	16	%	10-110		1	10/26/12 15:30	10/30/12 11:57	13127-88-3	
2-Fluorophenol (S)	28	%	12-110		1	10/26/12 15:30	10/30/12 11:57	367-12-4	
2,4,6-Tribromophenol (S)	72	%	27-110		1	10/26/12 15:30	10/30/12 11:57	118-79-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		10/28/12 00:24	67-64-1	
Acetonitrile	ND	ug/L	50.0	2.2	1		10/28/12 00:24	75-05-8	
Acrolein	ND	ug/L	10.0	1.6	1		10/28/12 00:24	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1.9	1		10/28/12 00:24	107-13-1	
Allyl chloride	ND	ug/L	2.0	1.5	1		10/28/12 00:24	107-05-1	
Benzene	**2.8**	ug/L	1.0	0.25	1		10/28/12 00:24	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/28/12 00:24	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/28/12 00:24	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/28/12 00:24	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/28/12 00:24	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/28/12 00:24	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/28/12 00:24	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/28/12 00:24	56-23-5	
Chlorobenzene	**2.6**	ug/L	1.0	0.23	1		10/28/12 00:24	108-90-7	
Chloroethane	**1.3**	ug/L	1.0	0.54	1		10/28/12 00:24	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/28/12 00:24	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/28/12 00:24	74-87-3	
Chloroprene	ND	ug/L	5.0	0.27	1		10/28/12 00:24	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/28/12 00:24	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/28/12 00:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/28/12 00:24	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/28/12 00:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/28/12 00:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		10/28/12 00:24	541-73-1	
1,4-Dichlorobenzene	**7.0**	ug/L	1.0	0.33	1		10/28/12 00:24	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		10/28/12 00:24	110-57-6	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-06 **Lab ID: 92136280001** Collected: 10/23/12 11:20 Received: 10/24/12 11:42 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		10/28/12 00:24	75-71-8	
1,1-Dichloroethane	**5.3**	ug/L	1.0	0.32	1		10/28/12 00:24	75-34-3	
1,2-Dichloroethane	**0.19J**	ug/L	1.0	0.12	1		10/28/12 00:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/28/12 00:24	75-35-4	
cis-1,2-Dichloroethene	**8.8**	ug/L	1.0	0.19	1		10/28/12 00:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/28/12 00:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/28/12 00:24	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		10/28/12 00:24	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		10/28/12 00:24	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		10/28/12 00:24	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/28/12 00:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/28/12 00:24	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/28/12 00:24	100-41-4	
Ethyl methacrylate	ND	ug/L	1.0	0.20	1		10/28/12 00:24	97-63-2	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/28/12 00:24	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		10/28/12 00:24	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		10/28/12 00:24	78-83-1	
Methacrylonitrile	ND	ug/L	10.0	0.93	1		10/28/12 00:24	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		10/28/12 00:24	75-09-2	
Methyl methacrylate	ND	ug/L	2.0	2.0	1		10/28/12 00:24	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/28/12 00:24	108-10-1	
Naphthalene	ND	ug/L	1.0	0.24	1		10/28/12 00:24	91-20-3	
Propionitrile	ND	ug/L	20.0	3.6	1		10/28/12 00:24	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		10/28/12 00:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/28/12 00:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/28/12 00:24	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/28/12 00:24	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/28/12 00:24	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		10/28/12 00:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/28/12 00:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/28/12 00:24	79-00-5	
Trichloroethene	**0.76J**	ug/L	1.0	0.47	1		10/28/12 00:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/28/12 00:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/28/12 00:24	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/28/12 00:24	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/28/12 00:24	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/28/12 00:24	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/28/12 00:24	179601-23-1	
o-Xylene	**0.40J**	ug/L	1.0	0.23	1		10/28/12 00:24	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		10/28/12 00:24	460-00-4	
Dibromofluoromethane (S)	90	%	70-130		1		10/28/12 00:24	1868-53-7	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		10/28/12 00:24	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		10/28/12 00:24	2037-26-5	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-06 **Lab ID: 92136280001** Collected: 10/23/12 11:20 Received: 10/24/12 11:42 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**57.6**	mg/L	5.0	1.0	1		10/31/12 19:43		
Iron, Ferrous	Analytical Method: SM 3500-Fe D#4								
Iron, Ferrous	**3.6**	mg/L	1.0	1.0	2		10/31/12 09:55		N2
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		10/30/12 16:40	18496-25-8	
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	ND	mg/L	2.0	2.0	1	10/24/12 17:20	10/29/12 12:45		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	ND	mg/L	2.0	2.0	1		11/01/12 20:54	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.020	0.020	1		10/24/12 23:47		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	ND	mg/L	1.0	1.0	1		11/06/12 20:55	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	ND	mg/L	0.0050	0.0050	1		11/02/12 15:27	57-12-5	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	ND	mg/L	25.0	25.0	1		11/08/12 11:15		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**1.1**	mg/L	1.0	1.0	1		11/02/12 19:18	7440-44-0	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-01 **Lab ID: 92136280002** Collected: 10/23/12 13:22 Received: 10/24/12 11:42 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	6.2	0.86	1		10/25/12 18:02	74-84-0	
Ethene	ND	ug/L	6.2	0.79	1		10/25/12 18:02	74-85-1	
Methane	**3130**	ug/L	6.6	3.3	1		10/25/12 18:02	74-82-8	
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3510								
PCB-1016 (Aroclor 1016)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 19:35	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 19:35	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 19:35	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 19:35	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 19:35	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 19:35	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 19:35	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	90	%	10-132		1	10/26/12 10:15	11/01/12 19:35	2051-24-3	
8151 Chlorinated Herbicides	Analytical Method: EPA 8151 Preparation Method: EPA 8151								
2,4-D	ND	ug/L	0.95	0.23	1	10/26/12 08:15	10/27/12 11:44	94-75-7	
Dinoseb	ND	ug/L	0.19	0.058	1	10/26/12 08:15	10/27/12 11:44	88-85-7	
Pentachlorophenol	ND	ug/L	0.029	0.017	1	10/26/12 08:15	10/27/12 11:44	87-86-5	
2,4,5-T	ND	ug/L	0.19	0.043	1	10/26/12 08:15	10/27/12 11:44	93-76-5	
2,4,5-TP (Silvex)	ND	ug/L	0.19	0.050	1	10/26/12 08:15	10/27/12 11:44	93-72-1	
Surrogates									
2,4-DCAA (S)	10	%	42-142		1	10/26/12 08:15	10/27/12 11:44	19719-28-9	S5
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	5.0	1	10/25/12 18:55	10/31/12 04:14	7440-36-0	
Arsenic	ND	ug/L	5.0	5.0	1	10/25/12 18:55	10/31/12 04:14	7440-38-2	
Barium	**107**	ug/L	5.0	5.0	1	10/25/12 18:55	10/31/12 04:14	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	10/25/12 18:55	10/31/12 04:14	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	10/25/12 18:55	10/31/12 04:14	7440-43-9	
Chromium	ND	ug/L	5.0	5.0	1	10/25/12 18:55	10/31/12 04:14	7440-47-3	
Cobalt	**264**	ug/L	5.0	5.0	1	10/25/12 18:55	10/31/12 04:14	7440-48-4	
Copper	ND	ug/L	5.0	5.0	1	10/25/12 18:55	10/31/12 04:14	7440-50-8	
Lead	ND	ug/L	5.0	5.0	1	10/25/12 18:55	10/31/12 04:14	7439-92-1	
Nickel	**14.2**	ug/L	5.0	5.0	1	10/25/12 18:55	10/31/12 04:14	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	10/25/12 18:55	10/31/12 04:14	7782-49-2	
Silver	ND	ug/L	5.0	5.0	1	10/25/12 18:55	10/31/12 04:14	7440-22-4	
Thallium	ND	ug/L	5.4	5.4	1	10/25/12 18:55	10/31/12 04:14	7440-28-0	
Tin	ND	ug/L	5.0	5.0	1	10/25/12 18:55	10/31/12 04:14	7440-31-5	
Vanadium	ND	ug/L	5.0	5.0	1	10/25/12 18:55	10/31/12 04:14	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	10/25/12 18:55	10/31/12 04:14	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Thallium	**0.65**	ug/L	0.10	0.019	1	10/29/12 14:05	11/14/12 21:48	7440-28-0	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-01 **Lab ID: 92136280002** Collected: 10/23/12 13:22 Received: 10/24/12 11:42 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	11/02/12 16:20	11/05/12 12:42	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270		Preparation Method: EPA 3510						
Acenaphthene	ND	ug/L	10.0	0.25	1	10/26/12 15:30	10/30/12 13:54	83-32-9	
Acenaphthylene	ND	ug/L	10.0	0.21	1	10/26/12 15:30	10/30/12 13:54	208-96-8	
Acetophenone	ND	ug/L	10.0	0.99	1	10/26/12 15:30	10/30/12 13:54	98-86-2	
2-Acetylaminofluorene	ND	ug/L	20.0	5.8	1	10/26/12 15:30	10/30/12 13:54	53-96-3	
4-Aminobiphenyl	ND	ug/L	10.0	5.2	1	10/26/12 15:30	10/30/12 13:54	92-67-1	
Aniline	ND	ug/L	10.0	2.0	1	10/26/12 15:30	10/30/12 13:54	62-53-3	
Anthracene	ND	ug/L	10.0	0.14	1	10/26/12 15:30	10/30/12 13:54	120-12-7	
Aramite	ND	ug/L	100	4.9	1	10/26/12 15:30	10/30/12 13:54	140-57-8	
Atrazine	ND	ug/L	20.0	6.5	1	10/26/12 15:30	10/30/12 13:54	1912-24-9	
Benzal chloride	ND	ug/L	50.0	3.9	1	10/26/12 15:30	10/30/12 13:54	98-87-3	
Benzaldehyde	ND	ug/L	20.0	12.0	1	10/26/12 15:30	10/30/12 13:54	100-52-7	
Benzidine	ND	ug/L	50.0	5.1	1	10/26/12 15:30	10/30/12 13:54	92-87-5	
Benzo(a)anthracene	ND	ug/L	10.0	0.33	1	10/26/12 15:30	10/30/12 13:54	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	0.30	1	10/26/12 15:30	10/30/12 13:54	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	0.28	1	10/26/12 15:30	10/30/12 13:54	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	0.38	1	10/26/12 15:30	10/30/12 13:54	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	0.43	1	10/26/12 15:30	10/30/12 13:54	207-08-9	
Benzoic Acid	ND	ug/L	50.0	11.5	1	10/26/12 15:30	10/30/12 13:54	65-85-0	
Benzophenone	ND	ug/L	10.0	4.9	1	10/26/12 15:30	10/30/12 13:54	119-61-9	
Benzyl alcohol	ND	ug/L	20.0	2.4	1	10/26/12 15:30	10/30/12 13:54	100-51-6	
Biphenyl (Diphenyl)	ND	ug/L	10.0	1.0	1	10/26/12 15:30	10/30/12 13:54	92-52-4	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.82	1	10/26/12 15:30	10/30/12 13:54	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	0.79	1	10/26/12 15:30	10/30/12 13:54	85-68-7	
Caprolactam	ND	ug/L	10.0	2.1	1	10/26/12 15:30	10/30/12 13:54	105-60-2	
Carbazole	ND	ug/L	10.0	0.54	1	10/26/12 15:30	10/30/12 13:54	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	20.0	3.7	1	10/26/12 15:30	10/30/12 13:54	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	10/26/12 15:30	10/30/12 13:54	106-47-8	
Chlorobenzilate	ND	ug/L	10.0	4.5	1	10/26/12 15:30	10/30/12 13:54	510-15-6	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.92	1	10/26/12 15:30	10/30/12 13:54	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.0	1	10/26/12 15:30	10/30/12 13:54	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	0.95	1	10/26/12 15:30	10/30/12 13:54	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.0	0.98	1	10/26/12 15:30	10/30/12 13:54	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.3	1	10/26/12 15:30	10/30/12 13:54	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.87	1	10/26/12 15:30	10/30/12 13:54	7005-72-3	
Chrysene	ND	ug/L	10.0	0.21	1	10/26/12 15:30	10/30/12 13:54	218-01-9	
n-Decane	ND	ug/L	10.0	0.91	1	10/26/12 15:30	10/30/12 13:54	124-18-5	
Diallate	ND	ug/L	10.0	5.4	1	10/26/12 15:30	10/30/12 13:54	2303-16-4	
Dibenz(a,h)anthracene	ND	ug/L	10.0	0.55	1	10/26/12 15:30	10/30/12 13:54	53-70-3	
Dibenzo(a,e)pyrene	ND	ug/L	50.0	3.4	1	10/26/12 15:30	10/30/12 13:54	192-65-4	
Dibenzofuran	ND	ug/L	10.0	0.89	1	10/26/12 15:30	10/30/12 13:54	132-64-9	
2,3-Dibromo-1-propanol phosph	ND	ug/L	75.0	8.0	1	10/26/12 15:30	10/30/12 13:54	126-72-7	
1,2-Dichlorobenzene	ND	ug/L	10.0	0.88	1	10/26/12 15:30	10/30/12 13:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	0.81	1	10/26/12 15:30	10/30/12 13:54	541-73-1	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-01 **Lab ID: 92136280002** Collected: 10/23/12 13:22 Received: 10/24/12 11:42 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
1,4-Dichlorobenzene	**5.7J**	ug/L	10.0	0.95	1	10/26/12 15:30	10/30/12 13:54	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.1	1	10/26/12 15:30	10/30/12 13:54	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.7	1	10/26/12 15:30	10/30/12 13:54	120-83-2	
2,6-Dichlorophenol	ND	ug/L	10.0	5.7	1	10/26/12 15:30	10/30/12 13:54	87-65-0	
2,3-Dichloroaniline	ND	ug/L	10.0	3.2	1	10/26/12 15:30	10/30/12 13:54	99-09-2	
Diethylphthalate	ND	ug/L	10.0	0.58	1	10/26/12 15:30	10/30/12 13:54	84-66-2	
Dimethoate	ND	ug/L	10.0	4.9	1	10/26/12 15:30	10/30/12 13:54	60-51-5	
P-Dimethylaminoazobenzene	ND	ug/L	5.0	2.7	1	10/26/12 15:30	10/30/12 13:54	60-11-7	
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10.0	4.9	1	10/26/12 15:30	10/30/12 13:54	57-97-6	
3,3'-Dimethylbenzidine	ND	ug/L	10.0	9.6	1	10/26/12 15:30	10/30/12 13:54	119-93-7	
2,4-Dimethylphenol	ND	ug/L	10.0	1.2	1	10/26/12 15:30	10/30/12 13:54	105-67-9	
a,a-Dimethylphenylethylamine	ND	ug/L	50.0	8.4	1	10/26/12 15:30	10/30/12 13:54	122-09-8	
Dimethylphthalate	ND	ug/L	10.0	0.76	1	10/26/12 15:30	10/30/12 13:54	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	0.75	1	10/26/12 15:30	10/30/12 13:54	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	2.6	1	10/26/12 15:30	10/30/12 13:54	534-52-1	
1,3-Dinitrobenzene	ND	ug/L	20.0	5.1	1	10/26/12 15:30	10/30/12 13:54	99-65-0	
1,4-Dinitrobenzene	ND	ug/L	20.0	5.0	1	10/26/12 15:30	10/30/12 13:54	100-25-4	
2,4-Dinitrophenol	ND	ug/L	50.0	9.0	1	10/26/12 15:30	10/30/12 13:54	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.90	1	10/26/12 15:30	10/30/12 13:54	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	0.98	1	10/26/12 15:30	10/30/12 13:54	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	0.66	1	10/26/12 15:30	10/30/12 13:54	117-84-0	
Dinoseb	ND	ug/L	20.0	5.7	1	10/26/12 15:30	10/30/12 13:54	88-85-7	
Diphenylamine	ND	ug/L	10.0	1.0	1	10/26/12 15:30	10/30/12 13:54	122-39-4	
Diphenyl ether (Phenyl ether)	ND	ug/L	20.0	4.6	1	10/26/12 15:30	10/30/12 13:54	101-84-8	
1,2-Diphenylhydrazine	ND	ug/L	10.0	0.90	1	10/26/12 15:30	10/30/12 13:54	122-66-7	
Disulfoton	ND	ug/L	10.0	5.5	1	10/26/12 15:30	10/30/12 13:54	298-04-4	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	0.79	1	10/26/12 15:30	10/30/12 13:54	117-81-7	
Ethyl methanesulfonate	ND	ug/L	20.0	5.6	1	10/26/12 15:30	10/30/12 13:54	62-50-0	
Famphur	ND	ug/L	10.0	3.7	1	10/26/12 15:30	10/30/12 13:54	52-85-7	
Fluoranthene	ND	ug/L	10.0	0.21	1	10/26/12 15:30	10/30/12 13:54	206-44-0	
Fluorene	ND	ug/L	10.0	0.21	1	10/26/12 15:30	10/30/12 13:54	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.94	1	10/26/12 15:30	10/30/12 13:54	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	0.72	1	10/26/12 15:30	10/30/12 13:54	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	0.88	1	10/26/12 15:30	10/30/12 13:54	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.1	1	10/26/12 15:30	10/30/12 13:54	67-72-1	
Hexachlorophene	ND	ug/L	100	28.0	1	10/26/12 15:30	10/30/12 13:54	70-30-4	
Hexachloropropene	ND	ug/L	10.0	3.2	1	10/26/12 15:30	10/30/12 13:54	1888-71-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	0.29	1	10/26/12 15:30	10/30/12 13:54	193-39-5	
Isodrin	ND	ug/L	20.0	5.7	1	10/26/12 15:30	10/30/12 13:54	465-73-6	
Isophorone	ND	ug/L	10.0	0.89	1	10/26/12 15:30	10/30/12 13:54	78-59-1	
Isosafrole	ND	ug/L	10.0	4.4	1	10/26/12 15:30	10/30/12 13:54	120-58-1	
Kepone	ND	ug/L	10.0	8.3	1	10/26/12 15:30	10/30/12 13:54	143-50-0	
Methapyrilene	ND	ug/L	50.0	5.8	1	10/26/12 15:30	10/30/12 13:54	91-80-5	
3-Methylcholanthrene	ND	ug/L	10.0	2.6	1	10/26/12 15:30	10/30/12 13:54	56-49-5	
4,4'-Methylene-bis(2-chloroani	ND	ug/L	50.0	12.0	1	10/26/12 15:30	10/30/12 13:54	101-14-4	
Methyl methanesulfonate	ND	ug/L	5.0	3.7	1	10/26/12 15:30	10/30/12 13:54	66-27-3	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-01 **Lab ID: 92136280002** Collected: 10/23/12 13:22 Received: 10/24/12 11:42 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
1-Methylnaphthalene	ND	ug/L	10.0	0.32	1	10/26/12 15:30	10/30/12 13:54	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	0.28	1	10/26/12 15:30	10/30/12 13:54	91-57-6	
2-Methyl-5-nitroaniline	ND	ug/L	10.0	5.2	1	10/26/12 15:30	10/30/12 13:54	99-55-8	
Methyl parathion	ND	ug/L	10.0	4.9	1	10/26/12 15:30	10/30/12 13:54	298-00-0	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.6	1	10/26/12 15:30	10/30/12 13:54	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	2.0	1	10/26/12 15:30	10/30/12 13:54		
1-Naphthalenamine	ND	ug/L	5.0	4.1	1	10/26/12 15:30	10/30/12 13:54	134-32-7	
2-Naphthalenamine	ND	ug/L	5.0	3.0	1	10/26/12 15:30	10/30/12 13:54	91-59-8	
Naphthalene	ND	ug/L	10.0	0.34	1	10/26/12 15:30	10/30/12 13:54	91-20-3	
1,4-Naphthoquinone	ND	ug/L	5.0	3.3	1	10/26/12 15:30	10/30/12 13:54	130-15-4	
2-Nitroaniline	ND	ug/L	50.0	2.0	1	10/26/12 15:30	10/30/12 13:54	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	2.0	1	10/26/12 15:30	10/30/12 13:54	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	2.1	1	10/26/12 15:30	10/30/12 13:54	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.1	1	10/26/12 15:30	10/30/12 13:54	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	0.91	1	10/26/12 15:30	10/30/12 13:54	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	4.1	1	10/26/12 15:30	10/30/12 13:54	100-02-7	
4-Nitroquinoline-n-oxide	ND	ug/L	50.0	13.0	1	10/26/12 15:30	10/30/12 13:54	56-57-5	
5-Nitro-o-toluidine	ND	ug/L	10.0	5.2	1	10/26/12 15:30	10/30/12 13:54	99-55-8	
N-Nitrosodiethylamine	ND	ug/L	20.0	5.6	1	10/26/12 15:30	10/30/12 13:54	55-18-5	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.91	1	10/26/12 15:30	10/30/12 13:54	62-75-9	
N-Nitroso-di-n-butylamine	ND	ug/L	10.0	7.5	1	10/26/12 15:30	10/30/12 13:54	924-16-3	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.99	1	10/26/12 15:30	10/30/12 13:54	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.0	1	10/26/12 15:30	10/30/12 13:54	86-30-6	
N-Nitrosomethylethylamine	ND	ug/L	10.0	4.7	1	10/26/12 15:30	10/30/12 13:54	10595-95-6	
N-Nitrosomorpholine	ND	ug/L	10.0	6.7	1	10/26/12 15:30	10/30/12 13:54	59-89-2	
N-Nitrosopiperidine	ND	ug/L	20.0	5.7	1	10/26/12 15:30	10/30/12 13:54	100-75-4	
N-Nitrosopyrrolidine	ND	ug/L	10.0	6.9	1	10/26/12 15:30	10/30/12 13:54	930-55-2	
n-Octadecane	ND	ug/L	10.0	0.84	1	10/26/12 15:30	10/30/12 13:54	593-45-3	
O,O,O-Triethylphosphorothioate	ND	ug/L	10.0	5.1	1	10/26/12 15:30	10/30/12 13:54	126-68-1	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	0.95	1	10/26/12 15:30	10/30/12 13:54	108-60-1	
Parathion (Ethyl parathion)	ND	ug/L	10.0	5.1	1	10/26/12 15:30	10/30/12 13:54	56-38-2	
Pentachlorobenzene	ND	ug/L	10.0	4.3	1	10/26/12 15:30	10/30/12 13:54	608-93-5	
Pentachloroethane	ND	ug/L	20.0	3.3	1	10/26/12 15:30	10/30/12 13:54	76-01-7	
Pentachloronitrobenzene	ND	ug/L	20.0	4.8	1	10/26/12 15:30	10/30/12 13:54	82-68-8	
Pentachlorophenol	ND	ug/L	25.0	4.6	1	10/26/12 15:30	10/30/12 13:54	87-86-5	
Phenacetin	ND	ug/L	20.0	4.8	1	10/26/12 15:30	10/30/12 13:54	62-44-2	
Phenanthrene	ND	ug/L	10.0	0.22	1	10/26/12 15:30	10/30/12 13:54	85-01-8	
Phenol	ND	ug/L	10.0	1.9	1	10/26/12 15:30	10/30/12 13:54	108-95-2	
p-Phenylenediamine	ND	ug/L	10.0	6.7	1	10/26/12 15:30	10/30/12 13:54	106-50-3	
Phorate	ND	ug/L	10.0	5.4	1	10/26/12 15:30	10/30/12 13:54	298-02-2	
Phthalic anhydride	ND	ug/L	75.0	5.9	1	10/26/12 15:30	10/30/12 13:54	85-44-9	
2-Picoline	ND	ug/L	10.0	4.3	1	10/26/12 15:30	10/30/12 13:54	109-06-8	
Pronamide	ND	ug/L	10.0	5.8	1	10/26/12 15:30	10/30/12 13:54	23950-58-5	
Pyrene	ND	ug/L	10.0	0.19	1	10/26/12 15:30	10/30/12 13:54	129-00-0	
Pyridine	ND	ug/L	10.0	1.6	1	10/26/12 15:30	10/30/12 13:54	110-86-1	
Safrole	ND	ug/L	10.0	5.7	1	10/26/12 15:30	10/30/12 13:54	94-59-7	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-01 **Lab ID: 92136280002** Collected: 10/23/12 13:22 Received: 10/24/12 11:42 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Sulfotepp (Thiodiphosphoric Ac	ND	ug/L	20.0	6.1	1	10/26/12 15:30	10/30/12 13:54	3689-24-5	
Terpineol	ND	ug/L	10.0	5.2	1	10/26/12 15:30	10/30/12 13:54	98-55-5	
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10.0	4.0	1	10/26/12 15:30	10/30/12 13:54	95-94-3	
2,3,4,6-Tetrachlorophenol	ND	ug/L	10.0	1.2	1	10/26/12 15:30	10/30/12 13:54	58-90-2	
Thionazin	ND	ug/L	20.0	4.8	1	10/26/12 15:30	10/30/12 13:54	297-97-2	
2,6-Toluene diisocyanate	ND	ug/L	10.0	5.0	1	10/26/12 15:30	10/30/12 13:54	91-08-7	
O-Toluidine	ND	ug/L	10.0	5.7	1	10/26/12 15:30	10/30/12 13:54	95-53-4	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.98	1	10/26/12 15:30	10/30/12 13:54	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	0.92	1	10/26/12 15:30	10/30/12 13:54	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.3	1	10/26/12 15:30	10/30/12 13:54	88-06-2	
1,3,5-Trinitrobenzene	ND	ug/L	10.0	5.2	1	10/26/12 15:30	10/30/12 13:54	99-35-4	
Surrogates									
Nitrobenzene-d5 (S)	76	%	21-110		1	10/26/12 15:30	10/30/12 13:54	4165-60-0	
2-Fluorobiphenyl (S)	77	%	27-110		1	10/26/12 15:30	10/30/12 13:54	321-60-8	
Terphenyl-d14 (S)	105	%	31-107		1	10/26/12 15:30	10/30/12 13:54	1718-51-0	
Phenol-d6 (S)	22	%	10-110		1	10/26/12 15:30	10/30/12 13:54	13127-88-3	
2-Fluorophenol (S)	37	%	12-110		1	10/26/12 15:30	10/30/12 13:54	367-12-4	
2,4,6-Tribromophenol (S)	83	%	27-110		1	10/26/12 15:30	10/30/12 13:54	118-79-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		10/28/12 00:40	67-64-1	
Acetonitrile	ND	ug/L	50.0	2.2	1		10/28/12 00:40	75-05-8	
Acrolein	ND	ug/L	10.0	1.6	1		10/28/12 00:40	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1.9	1		10/28/12 00:40	107-13-1	
Allyl chloride	ND	ug/L	2.0	1.5	1		10/28/12 00:40	107-05-1	
Benzene	**1.7**	ug/L	1.0	0.25	1		10/28/12 00:40	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/28/12 00:40	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/28/12 00:40	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/28/12 00:40	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/28/12 00:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/28/12 00:40	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/28/12 00:40	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/28/12 00:40	56-23-5	
Chlorobenzene	**3.8**	ug/L	1.0	0.23	1		10/28/12 00:40	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/28/12 00:40	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/28/12 00:40	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/28/12 00:40	74-87-3	
Chloroprene	ND	ug/L	5.0	0.27	1		10/28/12 00:40	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/28/12 00:40	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/28/12 00:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/28/12 00:40	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/28/12 00:40	74-95-3	
1,2-Dichlorobenzene	**0.31J**	ug/L	1.0	0.30	1		10/28/12 00:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		10/28/12 00:40	541-73-1	
1,4-Dichlorobenzene	**10**	ug/L	1.0	0.33	1		10/28/12 00:40	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		10/28/12 00:40	110-57-6	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-01 **Lab ID: 92136280002** Collected: 10/23/12 13:22 Received: 10/24/12 11:42 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		10/28/12 00:40	75-71-8	
1,1-Dichloroethane	**5.0**	ug/L	1.0	0.32	1		10/28/12 00:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/28/12 00:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/28/12 00:40	75-35-4	
cis-1,2-Dichloroethene	**8.0**	ug/L	1.0	0.19	1		10/28/12 00:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/28/12 00:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/28/12 00:40	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		10/28/12 00:40	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		10/28/12 00:40	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		10/28/12 00:40	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/28/12 00:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/28/12 00:40	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/28/12 00:40	100-41-4	
Ethyl methacrylate	ND	ug/L	1.0	0.20	1		10/28/12 00:40	97-63-2	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/28/12 00:40	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		10/28/12 00:40	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		10/28/12 00:40	78-83-1	
Methacrylonitrile	ND	ug/L	10.0	0.93	1		10/28/12 00:40	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		10/28/12 00:40	75-09-2	
Methyl methacrylate	ND	ug/L	2.0	2.0	1		10/28/12 00:40	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/28/12 00:40	108-10-1	
Naphthalene	**1.3**	ug/L	1.0	0.24	1		10/28/12 00:40	91-20-3	
Propionitrile	ND	ug/L	20.0	3.6	1		10/28/12 00:40	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		10/28/12 00:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/28/12 00:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/28/12 00:40	79-34-5	
Tetrachloroethene	**0.68J**	ug/L	1.0	0.46	1		10/28/12 00:40	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/28/12 00:40	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		10/28/12 00:40	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/28/12 00:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/28/12 00:40	79-00-5	
Trichloroethene	**0.94J**	ug/L	1.0	0.47	1		10/28/12 00:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/28/12 00:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/28/12 00:40	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/28/12 00:40	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/28/12 00:40	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/28/12 00:40	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/28/12 00:40	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		10/28/12 00:40	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		10/28/12 00:40	460-00-4	
Dibromofluoromethane (S)	91	%	70-130		1		10/28/12 00:40	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		10/28/12 00:40	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		10/28/12 00:40	2037-26-5	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-01 **Lab ID: 92136280002** Collected: 10/23/12 13:22 Received: 10/24/12 11:42 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**99.5**	mg/L	5.0	1.0	1		10/31/12 19:51		
Iron, Ferrous	Analytical Method: SM 3500-Fe D#4								
Iron, Ferrous	**16.4**	mg/L	5.0	5.0	10		10/31/12 10:25		N2
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		10/30/12 16:40	18496-25-8	
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	ND	mg/L	2.0	2.0	1	10/25/12 02:00	10/29/12 20:10		B4
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**2.3**	mg/L	2.0	2.0	1		11/01/12 21:08	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.032**	mg/L	0.020	0.020	1		10/24/12 23:54		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**1.2**	mg/L	1.0	1.0	1		11/06/12 20:56	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	ND	mg/L	0.0050	0.0050	1		11/02/12 15:28	57-12-5	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	ND	mg/L	25.0	25.0	1		11/08/12 11:15		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	ND	mg/L	1.0	1.0	1		11/02/12 19:32	7440-44-0	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: TRIP BLANK **Lab ID: 92136280003** Collected: 10/23/12 00:00 Received: 10/24/12 11:42 Matrix: Water

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

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: TRIP BLANK **Lab ID: 92136280003** Collected: 10/23/12 00:00 Received: 10/24/12 11:42 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/28/12 00:56	108-10-1	
Naphthalene	ND	ug/L	1.0	0.24	1		10/28/12 00:56	91-20-3	
Propionitrile	ND	ug/L	20.0	3.6	1		10/28/12 00:56	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		10/28/12 00:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/28/12 00:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/28/12 00:56	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/28/12 00:56	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/28/12 00:56	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		10/28/12 00:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/28/12 00:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/28/12 00:56	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/28/12 00:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/28/12 00:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/28/12 00:56	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/28/12 00:56	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/28/12 00:56	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/28/12 00:56	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/28/12 00:56	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		10/28/12 00:56	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		10/28/12 00:56	460-00-4	
Dibromofluoromethane (S)	91	%	70-130		1		10/28/12 00:56	1868-53-7	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		10/28/12 00:56	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		10/28/12 00:56	2037-26-5	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-02 **Lab ID: 92136280004** Collected: 10/24/12 14:06 Received: 10/25/12 09:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	**<0.86**	ug/L	6.2	0.86	1		10/30/12 08:21	74-84-0	
Ethene	**<0.79**	ug/L	6.2	0.79	1		10/30/12 08:21	74-85-1	
Methane	**11.5**	ug/L	6.6	3.3	1		10/30/12 08:21	74-82-8	
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3510								
PCB-1016 (Aroclor 1016)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 20:15	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 20:15	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 20:15	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 20:15	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 20:15	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 20:15	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 20:15	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	86	%	10-132		1	10/26/12 10:15	11/01/12 20:15	2051-24-3	
8151 Chlorinated Herbicides	Analytical Method: EPA 8151 Preparation Method: EPA 8151								
2,4-D	**<0.24**	ug/L	0.99	0.24	1	10/29/12 08:15	10/29/12 00:57	94-75-7	
Dinoseb	**<0.060**	ug/L	0.20	0.060	1	10/29/12 08:15	10/29/12 00:57	88-85-7	
Pentachlorophenol	**<0.018**	ug/L	0.030	0.018	1	10/29/12 08:15	10/29/12 00:57	87-86-5	
2,4,5-T	**<0.044**	ug/L	0.20	0.044	1	10/29/12 08:15	10/29/12 00:57	93-76-5	
2,4,5-TP (Silvex)	**<0.052**	ug/L	0.20	0.052	1	10/29/12 08:15	10/29/12 00:57	93-72-1	
Surrogates									
2,4-DCAA (S)	81	%	42-142		1	10/29/12 08:15	10/29/12 00:57	19719-28-9	
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	5.0	1	10/25/12 18:55	11/01/12 01:20	7440-36-0	
Arsenic	ND	ug/L	5.0	5.0	1	10/25/12 18:55	11/01/12 01:20	7440-38-2	
Barium	**40.9**	ug/L	5.0	5.0	1	10/25/12 18:55	11/01/12 01:20	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	10/25/12 18:55	11/01/12 01:20	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	10/25/12 18:55	11/01/12 01:20	7440-43-9	
Chromium	ND	ug/L	5.0	5.0	1	10/25/12 18:55	11/01/12 01:20	7440-47-3	
Cobalt	**6.5**	ug/L	5.0	5.0	1	10/25/12 18:55	11/01/12 01:20	7440-48-4	
Copper	ND	ug/L	5.0	5.0	1	10/25/12 18:55	11/01/12 01:20	7440-50-8	
Lead	ND	ug/L	5.0	5.0	1	10/25/12 18:55	11/01/12 01:20	7439-92-1	
Nickel	**15.5**	ug/L	5.0	5.0	1	10/25/12 18:55	11/01/12 01:20	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	10/25/12 18:55	11/01/12 01:20	7782-49-2	
Silver	ND	ug/L	5.0	5.0	1	10/25/12 18:55	11/01/12 01:20	7440-22-4	
Thallium	ND	ug/L	5.4	5.4	1	10/25/12 18:55	11/01/12 01:20	7440-28-0	
Tin	ND	ug/L	5.0	5.0	1	10/25/12 18:55	11/01/12 01:20	7440-31-5	
Vanadium	ND	ug/L	5.0	5.0	1	10/25/12 18:55	11/01/12 01:20	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	10/25/12 18:55	11/01/12 01:20	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Thallium	**0.10**	ug/L	0.10	0.019	1	10/31/12 17:45	11/08/12 16:51	7440-28-0	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-02 **Lab ID: 92136280004** Collected: 10/24/12 14:06 Received: 10/25/12 09:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	11/02/12 16:20	11/05/12 13:03	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270		Preparation Method: EPA 3510						
Acenaphthene	ND	ug/L	10.0	0.25	1	10/26/12 15:30	10/30/12 15:11	83-32-9	
Acenaphthylene	ND	ug/L	10.0	0.21	1	10/26/12 15:30	10/30/12 15:11	208-96-8	
Acetophenone	ND	ug/L	10.0	0.99	1	10/26/12 15:30	10/30/12 15:11	98-86-2	
2-Acetylaminofluorene	ND	ug/L	20.0	5.8	1	10/26/12 15:30	10/30/12 15:11	53-96-3	
4-Aminobiphenyl	ND	ug/L	10.0	5.2	1	10/26/12 15:30	10/30/12 15:11	92-67-1	
Aniline	ND	ug/L	10.0	2.0	1	10/26/12 15:30	10/30/12 15:11	62-53-3	
Anthracene	ND	ug/L	10.0	0.14	1	10/26/12 15:30	10/30/12 15:11	120-12-7	
Aramite	ND	ug/L	100	4.9	1	10/26/12 15:30	10/30/12 15:11	140-57-8	
Atrazine	ND	ug/L	20.0	6.5	1	10/26/12 15:30	10/30/12 15:11	1912-24-9	
Benzal chloride	ND	ug/L	50.0	3.9	1	10/26/12 15:30	10/30/12 15:11	98-87-3	
Benzaldehyde	ND	ug/L	20.0	12.0	1	10/26/12 15:30	10/30/12 15:11	100-52-7	
Benzidine	ND	ug/L	50.0	5.1	1	10/26/12 15:30	10/30/12 15:11	92-87-5	
Benzo(a)anthracene	ND	ug/L	10.0	0.33	1	10/26/12 15:30	10/30/12 15:11	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	0.30	1	10/26/12 15:30	10/30/12 15:11	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	0.28	1	10/26/12 15:30	10/30/12 15:11	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	0.38	1	10/26/12 15:30	10/30/12 15:11	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	0.43	1	10/26/12 15:30	10/30/12 15:11	207-08-9	
Benzoic Acid	ND	ug/L	50.0	11.5	1	10/26/12 15:30	10/30/12 15:11	65-85-0	
Benzophenone	ND	ug/L	10.0	4.9	1	10/26/12 15:30	10/30/12 15:11	119-61-9	
Benzyl alcohol	ND	ug/L	20.0	2.4	1	10/26/12 15:30	10/30/12 15:11	100-51-6	
Biphenyl (Diphenyl)	ND	ug/L	10.0	1.0	1	10/26/12 15:30	10/30/12 15:11	92-52-4	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.82	1	10/26/12 15:30	10/30/12 15:11	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	0.79	1	10/26/12 15:30	10/30/12 15:11	85-68-7	
Caprolactam	ND	ug/L	10.0	2.1	1	10/26/12 15:30	10/30/12 15:11	105-60-2	
Carbazole	ND	ug/L	10.0	0.54	1	10/26/12 15:30	10/30/12 15:11	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	20.0	3.7	1	10/26/12 15:30	10/30/12 15:11	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	10/26/12 15:30	10/30/12 15:11	106-47-8	
Chlorobenzilate	ND	ug/L	10.0	4.5	1	10/26/12 15:30	10/30/12 15:11	510-15-6	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.92	1	10/26/12 15:30	10/30/12 15:11	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.0	1	10/26/12 15:30	10/30/12 15:11	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	0.95	1	10/26/12 15:30	10/30/12 15:11	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.0	0.98	1	10/26/12 15:30	10/30/12 15:11	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.3	1	10/26/12 15:30	10/30/12 15:11	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.87	1	10/26/12 15:30	10/30/12 15:11	7005-72-3	
Chrysene	ND	ug/L	10.0	0.21	1	10/26/12 15:30	10/30/12 15:11	218-01-9	
n-Decane	ND	ug/L	10.0	0.91	1	10/26/12 15:30	10/30/12 15:11	124-18-5	
Diallate	ND	ug/L	10.0	5.4	1	10/26/12 15:30	10/30/12 15:11	2303-16-4	
Dibenz(a,h)anthracene	ND	ug/L	10.0	0.55	1	10/26/12 15:30	10/30/12 15:11	53-70-3	
Dibenzo(a,e)pyrene	ND	ug/L	50.0	3.4	1	10/26/12 15:30	10/30/12 15:11	192-65-4	
Dibenzofuran	ND	ug/L	10.0	0.89	1	10/26/12 15:30	10/30/12 15:11	132-64-9	
2,3-Dibromo-1-propanol phosph	ND	ug/L	75.0	8.0	1	10/26/12 15:30	10/30/12 15:11	126-72-7	
1,2-Dichlorobenzene	ND	ug/L	10.0	0.88	1	10/26/12 15:30	10/30/12 15:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	0.81	1	10/26/12 15:30	10/30/12 15:11	541-73-1	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-02 **Lab ID: 92136280004** Collected: 10/24/12 14:06 Received: 10/25/12 09:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
1,4-Dichlorobenzene	ND	ug/L	10.0	0.95	1	10/26/12 15:30	10/30/12 15:11	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.1	1	10/26/12 15:30	10/30/12 15:11	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.7	1	10/26/12 15:30	10/30/12 15:11	120-83-2	
2,6-Dichlorophenol	ND	ug/L	10.0	5.7	1	10/26/12 15:30	10/30/12 15:11	87-65-0	
2,3-Dichloroaniline	ND	ug/L	10.0	3.2	1	10/26/12 15:30	10/30/12 15:11	99-09-2	
Diethylphthalate	ND	ug/L	10.0	0.58	1	10/26/12 15:30	10/30/12 15:11	84-66-2	
Dimethoate	ND	ug/L	10.0	4.9	1	10/26/12 15:30	10/30/12 15:11	60-51-5	
P-Dimethylaminoazobenzene	ND	ug/L	5.0	2.7	1	10/26/12 15:30	10/30/12 15:11	60-11-7	
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10.0	4.9	1	10/26/12 15:30	10/30/12 15:11	57-97-6	
3,3'-Dimethylbenzidine	ND	ug/L	10.0	9.6	1	10/26/12 15:30	10/30/12 15:11	119-93-7	
2,4-Dimethylphenol	ND	ug/L	10.0	1.2	1	10/26/12 15:30	10/30/12 15:11	105-67-9	
a,a-Dimethylphenylethylamine	ND	ug/L	50.0	8.4	1	10/26/12 15:30	10/30/12 15:11	122-09-8	
Dimethylphthalate	ND	ug/L	10.0	0.76	1	10/26/12 15:30	10/30/12 15:11	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	0.75	1	10/26/12 15:30	10/30/12 15:11	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	2.6	1	10/26/12 15:30	10/30/12 15:11	534-52-1	
1,3-Dinitrobenzene	ND	ug/L	20.0	5.1	1	10/26/12 15:30	10/30/12 15:11	99-65-0	
1,4-Dinitrobenzene	ND	ug/L	20.0	5.0	1	10/26/12 15:30	10/30/12 15:11	100-25-4	
2,4-Dinitrophenol	ND	ug/L	50.0	9.0	1	10/26/12 15:30	10/30/12 15:11	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.90	1	10/26/12 15:30	10/30/12 15:11	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	0.98	1	10/26/12 15:30	10/30/12 15:11	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	0.66	1	10/26/12 15:30	10/30/12 15:11	117-84-0	
Dinoseb	ND	ug/L	20.0	5.7	1	10/26/12 15:30	10/30/12 15:11	88-85-7	
Diphenylamine	ND	ug/L	10.0	1.0	1	10/26/12 15:30	10/30/12 15:11	122-39-4	
Diphenyl ether (Phenyl ether)	ND	ug/L	20.0	4.6	1	10/26/12 15:30	10/30/12 15:11	101-84-8	
1,2-Diphenylhydrazine	ND	ug/L	10.0	0.90	1	10/26/12 15:30	10/30/12 15:11	122-66-7	
Disulfoton	ND	ug/L	10.0	5.5	1	10/26/12 15:30	10/30/12 15:11	298-04-4	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	0.79	1	10/26/12 15:30	10/30/12 15:11	117-81-7	
Ethyl methanesulfonate	ND	ug/L	20.0	5.6	1	10/26/12 15:30	10/30/12 15:11	62-50-0	
Famphur	ND	ug/L	10.0	3.7	1	10/26/12 15:30	10/30/12 15:11	52-85-7	
Fluoranthene	ND	ug/L	10.0	0.21	1	10/26/12 15:30	10/30/12 15:11	206-44-0	
Fluorene	ND	ug/L	10.0	0.21	1	10/26/12 15:30	10/30/12 15:11	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.94	1	10/26/12 15:30	10/30/12 15:11	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	0.72	1	10/26/12 15:30	10/30/12 15:11	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	0.88	1	10/26/12 15:30	10/30/12 15:11	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.1	1	10/26/12 15:30	10/30/12 15:11	67-72-1	
Hexachlorophene	ND	ug/L	100	28.0	1	10/26/12 15:30	10/30/12 15:11	70-30-4	
Hexachloropropene	ND	ug/L	10.0	3.2	1	10/26/12 15:30	10/30/12 15:11	1888-71-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	0.29	1	10/26/12 15:30	10/30/12 15:11	193-39-5	
Isodrin	ND	ug/L	20.0	5.7	1	10/26/12 15:30	10/30/12 15:11	465-73-6	
Isophorone	ND	ug/L	10.0	0.89	1	10/26/12 15:30	10/30/12 15:11	78-59-1	
Isosafrole	ND	ug/L	10.0	4.4	1	10/26/12 15:30	10/30/12 15:11	120-58-1	
Kepone	ND	ug/L	10.0	8.3	1	10/26/12 15:30	10/30/12 15:11	143-50-0	
Methapyrilene	ND	ug/L	50.0	5.8	1	10/26/12 15:30	10/30/12 15:11	91-80-5	
3-Methylcholanthrene	ND	ug/L	10.0	2.6	1	10/26/12 15:30	10/30/12 15:11	56-49-5	
4,4'-Methylene-bis(2-chloroani	ND	ug/L	50.0	12.0	1	10/26/12 15:30	10/30/12 15:11	101-14-4	
Methyl methanesulfonate	ND	ug/L	5.0	3.7	1	10/26/12 15:30	10/30/12 15:11	66-27-3	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-02 **Lab ID: 92136280004** Collected: 10/24/12 14:06 Received: 10/25/12 09:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
1-Methylnaphthalene	ND	ug/L	10.0	0.32	1	10/26/12 15:30	10/30/12 15:11	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	0.28	1	10/26/12 15:30	10/30/12 15:11	91-57-6	
2-Methyl-5-nitroaniline	ND	ug/L	10.0	5.2	1	10/26/12 15:30	10/30/12 15:11	99-55-8	
Methyl parathion	ND	ug/L	10.0	4.9	1	10/26/12 15:30	10/30/12 15:11	298-00-0	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.6	1	10/26/12 15:30	10/30/12 15:11	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	2.0	1	10/26/12 15:30	10/30/12 15:11		
1-Naphthalenamine	ND	ug/L	5.0	4.1	1	10/26/12 15:30	10/30/12 15:11	134-32-7	
2-Naphthalenamine	ND	ug/L	5.0	3.0	1	10/26/12 15:30	10/30/12 15:11	91-59-8	
Naphthalene	ND	ug/L	10.0	0.34	1	10/26/12 15:30	10/30/12 15:11	91-20-3	
1,4-Naphthoquinone	ND	ug/L	5.0	3.3	1	10/26/12 15:30	10/30/12 15:11	130-15-4	
2-Nitroaniline	ND	ug/L	50.0	2.0	1	10/26/12 15:30	10/30/12 15:11	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	2.0	1	10/26/12 15:30	10/30/12 15:11	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	2.1	1	10/26/12 15:30	10/30/12 15:11	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.1	1	10/26/12 15:30	10/30/12 15:11	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	0.91	1	10/26/12 15:30	10/30/12 15:11	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	4.1	1	10/26/12 15:30	10/30/12 15:11	100-02-7	
4-Nitroquinoline-n-oxide	ND	ug/L	50.0	13.0	1	10/26/12 15:30	10/30/12 15:11	56-57-5	
5-Nitro-o-toluidine	ND	ug/L	10.0	5.2	1	10/26/12 15:30	10/30/12 15:11	99-55-8	
N-Nitrosodiethylamine	ND	ug/L	20.0	5.6	1	10/26/12 15:30	10/30/12 15:11	55-18-5	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.91	1	10/26/12 15:30	10/30/12 15:11	62-75-9	
N-Nitroso-di-n-butylamine	ND	ug/L	10.0	7.5	1	10/26/12 15:30	10/30/12 15:11	924-16-3	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.99	1	10/26/12 15:30	10/30/12 15:11	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.0	1	10/26/12 15:30	10/30/12 15:11	86-30-6	
N-Nitrosomethylethylamine	ND	ug/L	10.0	4.7	1	10/26/12 15:30	10/30/12 15:11	10595-95-6	
N-Nitrosomorpholine	ND	ug/L	10.0	6.7	1	10/26/12 15:30	10/30/12 15:11	59-89-2	
N-Nitrosopiperidine	ND	ug/L	20.0	5.7	1	10/26/12 15:30	10/30/12 15:11	100-75-4	
N-Nitrosopyrrolidine	ND	ug/L	10.0	6.9	1	10/26/12 15:30	10/30/12 15:11	930-55-2	
n-Octadecane	ND	ug/L	10.0	0.84	1	10/26/12 15:30	10/30/12 15:11	593-45-3	
O,O,O-Triethylphosphorothioate	ND	ug/L	10.0	5.1	1	10/26/12 15:30	10/30/12 15:11	126-68-1	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	0.95	1	10/26/12 15:30	10/30/12 15:11	108-60-1	
Parathion (Ethyl parathion)	ND	ug/L	10.0	5.1	1	10/26/12 15:30	10/30/12 15:11	56-38-2	
Pentachlorobenzene	ND	ug/L	10.0	4.3	1	10/26/12 15:30	10/30/12 15:11	608-93-5	
Pentachloroethane	ND	ug/L	20.0	3.3	1	10/26/12 15:30	10/30/12 15:11	76-01-7	
Pentachloronitrobenzene	ND	ug/L	20.0	4.8	1	10/26/12 15:30	10/30/12 15:11	82-68-8	
Pentachlorophenol	ND	ug/L	25.0	4.6	1	10/26/12 15:30	10/30/12 15:11	87-86-5	
Phenacetin	ND	ug/L	20.0	4.8	1	10/26/12 15:30	10/30/12 15:11	62-44-2	
Phenanthrene	ND	ug/L	10.0	0.22	1	10/26/12 15:30	10/30/12 15:11	85-01-8	
Phenol	ND	ug/L	10.0	1.9	1	10/26/12 15:30	10/30/12 15:11	108-95-2	
p-Phenylenediamine	ND	ug/L	10.0	6.7	1	10/26/12 15:30	10/30/12 15:11	106-50-3	
Phorate	ND	ug/L	10.0	5.4	1	10/26/12 15:30	10/30/12 15:11	298-02-2	
Phthalic anhydride	ND	ug/L	75.0	5.9	1	10/26/12 15:30	10/30/12 15:11	85-44-9	
2-Picoline	ND	ug/L	10.0	4.3	1	10/26/12 15:30	10/30/12 15:11	109-06-8	
Pronamide	ND	ug/L	10.0	5.8	1	10/26/12 15:30	10/30/12 15:11	23950-58-5	
Pyrene	ND	ug/L	10.0	0.19	1	10/26/12 15:30	10/30/12 15:11	129-00-0	
Pyridine	ND	ug/L	10.0	1.6	1	10/26/12 15:30	10/30/12 15:11	110-86-1	
Safrole	ND	ug/L	10.0	5.7	1	10/26/12 15:30	10/30/12 15:11	94-59-7	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-02 **Lab ID: 92136280004** Collected: 10/24/12 14:06 Received: 10/25/12 09:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Sulfotepp (Thiodiphosphoric Ac	ND	ug/L	20.0	6.1	1	10/26/12 15:30	10/30/12 15:11	3689-24-5	
Terpineol	ND	ug/L	10.0	5.2	1	10/26/12 15:30	10/30/12 15:11	98-55-5	
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10.0	4.0	1	10/26/12 15:30	10/30/12 15:11	95-94-3	
2,3,4,6-Tetrachlorophenol	ND	ug/L	10.0	1.2	1	10/26/12 15:30	10/30/12 15:11	58-90-2	
Thionazin	ND	ug/L	20.0	4.8	1	10/26/12 15:30	10/30/12 15:11	297-97-2	
2,6-Toluene diisocyanate	ND	ug/L	10.0	5.0	1	10/26/12 15:30	10/30/12 15:11	91-08-7	
O-Toluidine	ND	ug/L	10.0	5.7	1	10/26/12 15:30	10/30/12 15:11	95-53-4	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.98	1	10/26/12 15:30	10/30/12 15:11	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	0.92	1	10/26/12 15:30	10/30/12 15:11	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.3	1	10/26/12 15:30	10/30/12 15:11	88-06-2	
1,3,5-Trinitrobenzene	ND	ug/L	10.0	5.2	1	10/26/12 15:30	10/30/12 15:11	99-35-4	
Surrogates									
Nitrobenzene-d5 (S)	70	%	21-110		1	10/26/12 15:30	10/30/12 15:11	4165-60-0	
2-Fluorobiphenyl (S)	77	%	27-110		1	10/26/12 15:30	10/30/12 15:11	321-60-8	
Terphenyl-d14 (S)	101	%	31-107		1	10/26/12 15:30	10/30/12 15:11	1718-51-0	
Phenol-d6 (S)	22	%	10-110		1	10/26/12 15:30	10/30/12 15:11	13127-88-3	
2-Fluorophenol (S)	37	%	12-110		1	10/26/12 15:30	10/30/12 15:11	367-12-4	
2,4,6-Tribromophenol (S)	76	%	27-110		1	10/26/12 15:30	10/30/12 15:11	118-79-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		11/03/12 19:59	67-64-1	
Acetonitrile	ND	ug/L	50.0	2.2	1		11/03/12 19:59	75-05-8	
Acrolein	ND	ug/L	10.0	1.6	1		11/03/12 19:59	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1.9	1		11/03/12 19:59	107-13-1	
Allyl chloride	ND	ug/L	2.0	1.5	1		11/03/12 19:59	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		11/03/12 19:59	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		11/03/12 19:59	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		11/03/12 19:59	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		11/03/12 19:59	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		11/03/12 19:59	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		11/03/12 19:59	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		11/03/12 19:59	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		11/03/12 19:59	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		11/03/12 19:59	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		11/03/12 19:59	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		11/03/12 19:59	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		11/03/12 19:59	74-87-3	
Chloroprene	ND	ug/L	5.0	0.27	1		11/03/12 19:59	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		11/03/12 19:59	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		11/03/12 19:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		11/03/12 19:59	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		11/03/12 19:59	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		11/03/12 19:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		11/03/12 19:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		11/03/12 19:59	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		11/03/12 19:59	110-57-6	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-02 **Lab ID: 92136280004** Collected: 10/24/12 14:06 Received: 10/25/12 09:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		11/03/12 19:59	75-71-8	
1,1-Dichloroethane	**0.49J**	ug/L	1.0	0.32	1		11/03/12 19:59	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		11/03/12 19:59	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		11/03/12 19:59	75-35-4	
cis-1,2-Dichloroethene	**0.45J**	ug/L	1.0	0.19	1		11/03/12 19:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		11/03/12 19:59	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		11/03/12 19:59	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		11/03/12 19:59	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		11/03/12 19:59	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		11/03/12 19:59	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		11/03/12 19:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		11/03/12 19:59	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		11/03/12 19:59	100-41-4	
Ethyl methacrylate	ND	ug/L	1.0	0.20	1		11/03/12 19:59	97-63-2	
2-Hexanone	ND	ug/L	5.0	0.46	1		11/03/12 19:59	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		11/03/12 19:59	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		11/03/12 19:59	78-83-1	
Methacrylonitrile	ND	ug/L	10.0	0.93	1		11/03/12 19:59	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		11/03/12 19:59	75-09-2	
Methyl methacrylate	ND	ug/L	2.0	2.0	1		11/03/12 19:59	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		11/03/12 19:59	108-10-1	
Naphthalene	ND	ug/L	1.0	0.24	1		11/03/12 19:59	91-20-3	
Propionitrile	ND	ug/L	20.0	3.6	1		11/03/12 19:59	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		11/03/12 19:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		11/03/12 19:59	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		11/03/12 19:59	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		11/03/12 19:59	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		11/03/12 19:59	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		11/03/12 19:59	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		11/03/12 19:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		11/03/12 19:59	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		11/03/12 19:59	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		11/03/12 19:59	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		11/03/12 19:59	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		11/03/12 19:59	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		11/03/12 19:59	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		11/03/12 19:59	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		11/03/12 19:59	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		11/03/12 19:59	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		11/03/12 19:59	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		11/03/12 19:59	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		11/03/12 19:59	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		11/03/12 19:59	2037-26-5	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-02 **Lab ID: 92136280004** Collected: 10/24/12 14:06 Received: 10/25/12 09:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**29.8**	mg/L	5.0	1.0	1		11/02/12 19:15		
Iron, Ferrous	Analytical Method: SM 3500-Fe D#4								
Iron, Ferrous	ND	mg/L	0.50	0.50	1		10/31/12 09:29		N2
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		10/30/12 16:40	18496-25-8	
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	ND	mg/L	2.0	2.0	1	10/25/12 14:45	10/30/12 09:30		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**8.1**	mg/L	2.0	2.0	1		11/02/12 01:12	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.29**	mg/L	0.020	0.020	1		10/25/12 13:34		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**20.0**	mg/L	1.0	1.0	1		11/06/12 21:24	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	ND	mg/L	0.0050	0.0050	1		11/02/12 15:44	57-12-5	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	ND	mg/L	25.0	25.0	1		11/09/12 14:45		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**4.0**	mg/L	1.0	1.0	1		11/06/12 23:31	7440-44-0	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-03 **Lab ID: 92136280005** Collected: 10/23/12 15:30 Received: 10/25/12 09:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	**<0.86**	ug/L	6.2	0.86	1		10/30/12 08:32	74-84-0	
Ethene	**<0.79**	ug/L	6.2	0.79	1		10/30/12 08:32	74-85-1	
Methane	**6.5J**	ug/L	6.6	3.3	1		10/30/12 08:32	74-82-8	
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3510								
PCB-1016 (Aroclor 1016)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 19:55	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 19:55	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 19:55	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 19:55	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 19:55	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 19:55	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 19:55	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	84	%	10-132		1	10/26/12 10:15	11/01/12 19:55	2051-24-3	
8151 Chlorinated Herbicides	Analytical Method: EPA 8151 Preparation Method: EPA 8151								
2,4-D	**<0.23**	ug/L	0.96	0.23	1	10/29/12 08:15	10/30/12 01:27	94-75-7	
Dinoseb	**<0.058**	ug/L	0.19	0.058	1	10/29/12 08:15	10/30/12 01:27	88-85-7	
Pentachlorophenol	**<0.017**	ug/L	0.029	0.017	1	10/29/12 08:15	10/30/12 01:27	87-86-5	
2,4,5-T	**<0.043**	ug/L	0.19	0.043	1	10/29/12 08:15	10/30/12 01:27	93-76-5	
2,4,5-TP (Silvex)	**<0.050**	ug/L	0.19	0.050	1	10/29/12 08:15	10/30/12 01:27	93-72-1	
Surrogates									
2,4-DCAA (S)	16	%	42-142		1	10/29/12 08:15	10/30/12 01:27	19719-28-9	S5
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	5.0	1	10/25/12 18:55	11/01/12 01:23	7440-36-0	
Arsenic	ND	ug/L	5.0	5.0	1	10/25/12 18:55	11/01/12 01:23	7440-38-2	
Barium	**162**	ug/L	5.0	5.0	1	10/25/12 18:55	11/01/12 01:23	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	10/25/12 18:55	11/01/12 01:23	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	10/25/12 18:55	11/01/12 01:23	7440-43-9	
Chromium	ND	ug/L	5.0	5.0	1	10/25/12 18:55	11/01/12 01:23	7440-47-3	
Cobalt	**70.0**	ug/L	5.0	5.0	1	10/25/12 18:55	11/01/12 01:23	7440-48-4	
Copper	ND	ug/L	5.0	5.0	1	10/25/12 18:55	11/01/12 01:23	7440-50-8	
Lead	ND	ug/L	5.0	5.0	1	10/25/12 18:55	11/01/12 01:23	7439-92-1	
Nickel	**8.4**	ug/L	5.0	5.0	1	10/25/12 18:55	11/01/12 01:23	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	10/25/12 18:55	11/01/12 01:23	7782-49-2	
Silver	ND	ug/L	5.0	5.0	1	10/25/12 18:55	11/01/12 01:23	7440-22-4	
Thallium	ND	ug/L	5.4	5.4	1	10/25/12 18:55	11/01/12 01:23	7440-28-0	
Tin	ND	ug/L	5.0	5.0	1	10/25/12 18:55	11/01/12 01:23	7440-31-5	
Vanadium	ND	ug/L	5.0	5.0	1	10/25/12 18:55	11/01/12 01:23	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	10/25/12 18:55	11/01/12 01:23	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Thallium	**0.10**	ug/L	0.10	0.019	1	10/31/12 17:45	11/08/12 16:30	7440-28-0	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-03 **Lab ID: 92136280005** Collected: 10/23/12 15:30 Received: 10/25/12 09:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	11/02/12 16:20	11/05/12 13:06	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270		Preparation Method: EPA 3510						
Acenaphthene	ND	ug/L	10.0	0.25	1	10/26/12 15:30	10/30/12 14:32	83-32-9	
Acenaphthylene	ND	ug/L	10.0	0.21	1	10/26/12 15:30	10/30/12 14:32	208-96-8	
Acetophenone	ND	ug/L	10.0	0.99	1	10/26/12 15:30	10/30/12 14:32	98-86-2	
2-Acetylaminofluorene	ND	ug/L	20.0	5.8	1	10/26/12 15:30	10/30/12 14:32	53-96-3	
4-Aminobiphenyl	ND	ug/L	10.0	5.2	1	10/26/12 15:30	10/30/12 14:32	92-67-1	
Aniline	ND	ug/L	10.0	2.0	1	10/26/12 15:30	10/30/12 14:32	62-53-3	
Anthracene	ND	ug/L	10.0	0.14	1	10/26/12 15:30	10/30/12 14:32	120-12-7	
Aramite	ND	ug/L	100	4.9	1	10/26/12 15:30	10/30/12 14:32	140-57-8	
Atrazine	ND	ug/L	20.0	6.5	1	10/26/12 15:30	10/30/12 14:32	1912-24-9	
Benzal chloride	ND	ug/L	50.0	3.9	1	10/26/12 15:30	10/30/12 14:32	98-87-3	
Benzaldehyde	ND	ug/L	20.0	12.0	1	10/26/12 15:30	10/30/12 14:32	100-52-7	
Benzidine	ND	ug/L	50.0	5.1	1	10/26/12 15:30	10/30/12 14:32	92-87-5	
Benzo(a)anthracene	ND	ug/L	10.0	0.33	1	10/26/12 15:30	10/30/12 14:32	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	0.30	1	10/26/12 15:30	10/30/12 14:32	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	0.28	1	10/26/12 15:30	10/30/12 14:32	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	0.38	1	10/26/12 15:30	10/30/12 14:32	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	0.43	1	10/26/12 15:30	10/30/12 14:32	207-08-9	
Benzoic Acid	ND	ug/L	50.0	11.5	1	10/26/12 15:30	10/30/12 14:32	65-85-0	
Benzophenone	ND	ug/L	10.0	4.9	1	10/26/12 15:30	10/30/12 14:32	119-61-9	
Benzyl alcohol	ND	ug/L	20.0	2.4	1	10/26/12 15:30	10/30/12 14:32	100-51-6	
Biphenyl (Diphenyl)	ND	ug/L	10.0	1.0	1	10/26/12 15:30	10/30/12 14:32	92-52-4	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.82	1	10/26/12 15:30	10/30/12 14:32	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	0.79	1	10/26/12 15:30	10/30/12 14:32	85-68-7	
Caprolactam	ND	ug/L	10.0	2.1	1	10/26/12 15:30	10/30/12 14:32	105-60-2	
Carbazole	ND	ug/L	10.0	0.54	1	10/26/12 15:30	10/30/12 14:32	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	20.0	3.7	1	10/26/12 15:30	10/30/12 14:32	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	10/26/12 15:30	10/30/12 14:32	106-47-8	
Chlorobenzilate	ND	ug/L	10.0	4.5	1	10/26/12 15:30	10/30/12 14:32	510-15-6	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.92	1	10/26/12 15:30	10/30/12 14:32	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.0	1	10/26/12 15:30	10/30/12 14:32	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	0.95	1	10/26/12 15:30	10/30/12 14:32	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.0	0.98	1	10/26/12 15:30	10/30/12 14:32	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.3	1	10/26/12 15:30	10/30/12 14:32	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.87	1	10/26/12 15:30	10/30/12 14:32	7005-72-3	
Chrysene	ND	ug/L	10.0	0.21	1	10/26/12 15:30	10/30/12 14:32	218-01-9	
n-Decane	ND	ug/L	10.0	0.91	1	10/26/12 15:30	10/30/12 14:32	124-18-5	
Diallate	ND	ug/L	10.0	5.4	1	10/26/12 15:30	10/30/12 14:32	2303-16-4	
Dibenz(a,h)anthracene	ND	ug/L	10.0	0.55	1	10/26/12 15:30	10/30/12 14:32	53-70-3	
Dibenzo(a,e)pyrene	ND	ug/L	50.0	3.4	1	10/26/12 15:30	10/30/12 14:32	192-65-4	
Dibenzofuran	ND	ug/L	10.0	0.89	1	10/26/12 15:30	10/30/12 14:32	132-64-9	
2,3-Dibromo-1-propanol phosph	ND	ug/L	75.0	8.0	1	10/26/12 15:30	10/30/12 14:32	126-72-7	
1,2-Dichlorobenzene	ND	ug/L	10.0	0.88	1	10/26/12 15:30	10/30/12 14:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	0.81	1	10/26/12 15:30	10/30/12 14:32	541-73-1	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-03 **Lab ID: 92136280005** Collected: 10/23/12 15:30 Received: 10/25/12 09:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
1,4-Dichlorobenzene	**5.3J**	ug/L	10.0	0.95	1	10/26/12 15:30	10/30/12 14:32	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.1	1	10/26/12 15:30	10/30/12 14:32	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.7	1	10/26/12 15:30	10/30/12 14:32	120-83-2	
2,6-Dichlorophenol	ND	ug/L	10.0	5.7	1	10/26/12 15:30	10/30/12 14:32	87-65-0	
2,3-Dichloroaniline	ND	ug/L	10.0	3.2	1	10/26/12 15:30	10/30/12 14:32	99-09-2	
Diethylphthalate	ND	ug/L	10.0	0.58	1	10/26/12 15:30	10/30/12 14:32	84-66-2	
Dimethoate	ND	ug/L	10.0	4.9	1	10/26/12 15:30	10/30/12 14:32	60-51-5	
P-Dimethylaminoazobenzene	ND	ug/L	5.0	2.7	1	10/26/12 15:30	10/30/12 14:32	60-11-7	
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10.0	4.9	1	10/26/12 15:30	10/30/12 14:32	57-97-6	
3,3'-Dimethylbenzidine	ND	ug/L	10.0	9.6	1	10/26/12 15:30	10/30/12 14:32	119-93-7	
2,4-Dimethylphenol	ND	ug/L	10.0	1.2	1	10/26/12 15:30	10/30/12 14:32	105-67-9	
a,a-Dimethylphenylethylamine	ND	ug/L	50.0	8.4	1	10/26/12 15:30	10/30/12 14:32	122-09-8	
Dimethylphthalate	ND	ug/L	10.0	0.76	1	10/26/12 15:30	10/30/12 14:32	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	0.75	1	10/26/12 15:30	10/30/12 14:32	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	2.6	1	10/26/12 15:30	10/30/12 14:32	534-52-1	
1,3-Dinitrobenzene	ND	ug/L	20.0	5.1	1	10/26/12 15:30	10/30/12 14:32	99-65-0	
1,4-Dinitrobenzene	ND	ug/L	20.0	5.0	1	10/26/12 15:30	10/30/12 14:32	100-25-4	
2,4-Dinitrophenol	ND	ug/L	50.0	9.0	1	10/26/12 15:30	10/30/12 14:32	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.90	1	10/26/12 15:30	10/30/12 14:32	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	0.98	1	10/26/12 15:30	10/30/12 14:32	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	0.66	1	10/26/12 15:30	10/30/12 14:32	117-84-0	
Dinoseb	ND	ug/L	20.0	5.7	1	10/26/12 15:30	10/30/12 14:32	88-85-7	
Diphenylamine	ND	ug/L	10.0	1.0	1	10/26/12 15:30	10/30/12 14:32	122-39-4	
Diphenyl ether (Phenyl ether)	ND	ug/L	20.0	4.6	1	10/26/12 15:30	10/30/12 14:32	101-84-8	
1,2-Diphenylhydrazine	ND	ug/L	10.0	0.90	1	10/26/12 15:30	10/30/12 14:32	122-66-7	
Disulfoton	ND	ug/L	10.0	5.5	1	10/26/12 15:30	10/30/12 14:32	298-04-4	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	0.79	1	10/26/12 15:30	10/30/12 14:32	117-81-7	
Ethyl methanesulfonate	ND	ug/L	20.0	5.6	1	10/26/12 15:30	10/30/12 14:32	62-50-0	
Famphur	ND	ug/L	10.0	3.7	1	10/26/12 15:30	10/30/12 14:32	52-85-7	
Fluoranthene	ND	ug/L	10.0	0.21	1	10/26/12 15:30	10/30/12 14:32	206-44-0	
Fluorene	ND	ug/L	10.0	0.21	1	10/26/12 15:30	10/30/12 14:32	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.94	1	10/26/12 15:30	10/30/12 14:32	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	0.72	1	10/26/12 15:30	10/30/12 14:32	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	0.88	1	10/26/12 15:30	10/30/12 14:32	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.1	1	10/26/12 15:30	10/30/12 14:32	67-72-1	
Hexachlorophene	ND	ug/L	100	28.0	1	10/26/12 15:30	10/30/12 14:32	70-30-4	
Hexachloropropene	ND	ug/L	10.0	3.2	1	10/26/12 15:30	10/30/12 14:32	1888-71-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	0.29	1	10/26/12 15:30	10/30/12 14:32	193-39-5	
Isodrin	ND	ug/L	20.0	5.7	1	10/26/12 15:30	10/30/12 14:32	465-73-6	
Isophorone	ND	ug/L	10.0	0.89	1	10/26/12 15:30	10/30/12 14:32	78-59-1	
Isosafrole	ND	ug/L	10.0	4.4	1	10/26/12 15:30	10/30/12 14:32	120-58-1	
Kepone	ND	ug/L	10.0	8.3	1	10/26/12 15:30	10/30/12 14:32	143-50-0	
Methapyrilene	ND	ug/L	50.0	5.8	1	10/26/12 15:30	10/30/12 14:32	91-80-5	
3-Methylcholanthrene	ND	ug/L	10.0	2.6	1	10/26/12 15:30	10/30/12 14:32	56-49-5	
4,4'-Methylene-bis(2-chloroani	ND	ug/L	50.0	12.0	1	10/26/12 15:30	10/30/12 14:32	101-14-4	
Methyl methanesulfonate	ND	ug/L	5.0	3.7	1	10/26/12 15:30	10/30/12 14:32	66-27-3	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-03 **Lab ID: 92136280005** Collected: 10/23/12 15:30 Received: 10/25/12 09:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
1-Methylnaphthalene	ND	ug/L	10.0	0.32	1	10/26/12 15:30	10/30/12 14:32	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	0.28	1	10/26/12 15:30	10/30/12 14:32	91-57-6	
2-Methyl-5-nitroaniline	ND	ug/L	10.0	5.2	1	10/26/12 15:30	10/30/12 14:32	99-55-8	
Methyl parathion	ND	ug/L	10.0	4.9	1	10/26/12 15:30	10/30/12 14:32	298-00-0	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.6	1	10/26/12 15:30	10/30/12 14:32	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	2.0	1	10/26/12 15:30	10/30/12 14:32		
1-Naphthalenamine	ND	ug/L	5.0	4.1	1	10/26/12 15:30	10/30/12 14:32	134-32-7	
2-Naphthalenamine	ND	ug/L	5.0	3.0	1	10/26/12 15:30	10/30/12 14:32	91-59-8	
Naphthalene	ND	ug/L	10.0	0.34	1	10/26/12 15:30	10/30/12 14:32	91-20-3	
1,4-Naphthoquinone	ND	ug/L	5.0	3.3	1	10/26/12 15:30	10/30/12 14:32	130-15-4	
2-Nitroaniline	ND	ug/L	50.0	2.0	1	10/26/12 15:30	10/30/12 14:32	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	2.0	1	10/26/12 15:30	10/30/12 14:32	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	2.1	1	10/26/12 15:30	10/30/12 14:32	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.1	1	10/26/12 15:30	10/30/12 14:32	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	0.91	1	10/26/12 15:30	10/30/12 14:32	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	4.1	1	10/26/12 15:30	10/30/12 14:32	100-02-7	
4-Nitroquinoline-n-oxide	ND	ug/L	50.0	13.0	1	10/26/12 15:30	10/30/12 14:32	56-57-5	
5-Nitro-o-toluidine	ND	ug/L	10.0	5.2	1	10/26/12 15:30	10/30/12 14:32	99-55-8	
N-Nitrosodiethylamine	ND	ug/L	20.0	5.6	1	10/26/12 15:30	10/30/12 14:32	55-18-5	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.91	1	10/26/12 15:30	10/30/12 14:32	62-75-9	
N-Nitroso-di-n-butylamine	ND	ug/L	10.0	7.5	1	10/26/12 15:30	10/30/12 14:32	924-16-3	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.99	1	10/26/12 15:30	10/30/12 14:32	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.0	1	10/26/12 15:30	10/30/12 14:32	86-30-6	
N-Nitrosomethylethylamine	ND	ug/L	10.0	4.7	1	10/26/12 15:30	10/30/12 14:32	10595-95-6	
N-Nitrosomorpholine	ND	ug/L	10.0	6.7	1	10/26/12 15:30	10/30/12 14:32	59-89-2	
N-Nitrosopiperidine	ND	ug/L	20.0	5.7	1	10/26/12 15:30	10/30/12 14:32	100-75-4	
N-Nitrosopyrrolidine	ND	ug/L	10.0	6.9	1	10/26/12 15:30	10/30/12 14:32	930-55-2	
n-Octadecane	ND	ug/L	10.0	0.84	1	10/26/12 15:30	10/30/12 14:32	593-45-3	
O,O,O-Triethylphosphorothioate	ND	ug/L	10.0	5.1	1	10/26/12 15:30	10/30/12 14:32	126-68-1	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	0.95	1	10/26/12 15:30	10/30/12 14:32	108-60-1	
Parathion (Ethyl parathion)	ND	ug/L	10.0	5.1	1	10/26/12 15:30	10/30/12 14:32	56-38-2	
Pentachlorobenzene	ND	ug/L	10.0	4.3	1	10/26/12 15:30	10/30/12 14:32	608-93-5	
Pentachloroethane	ND	ug/L	20.0	3.3	1	10/26/12 15:30	10/30/12 14:32	76-01-7	
Pentachloronitrobenzene	ND	ug/L	20.0	4.8	1	10/26/12 15:30	10/30/12 14:32	82-68-8	
Pentachlorophenol	ND	ug/L	25.0	4.6	1	10/26/12 15:30	10/30/12 14:32	87-86-5	
Phenacetin	ND	ug/L	20.0	4.8	1	10/26/12 15:30	10/30/12 14:32	62-44-2	
Phenanthrene	ND	ug/L	10.0	0.22	1	10/26/12 15:30	10/30/12 14:32	85-01-8	
Phenol	ND	ug/L	10.0	1.9	1	10/26/12 15:30	10/30/12 14:32	108-95-2	
p-Phenylenediamine	ND	ug/L	10.0	6.7	1	10/26/12 15:30	10/30/12 14:32	106-50-3	
Phorate	ND	ug/L	10.0	5.4	1	10/26/12 15:30	10/30/12 14:32	298-02-2	
Phthalic anhydride	ND	ug/L	75.0	5.9	1	10/26/12 15:30	10/30/12 14:32	85-44-9	
2-Picoline	ND	ug/L	10.0	4.3	1	10/26/12 15:30	10/30/12 14:32	109-06-8	
Pronamide	ND	ug/L	10.0	5.8	1	10/26/12 15:30	10/30/12 14:32	23950-58-5	
Pyrene	ND	ug/L	10.0	0.19	1	10/26/12 15:30	10/30/12 14:32	129-00-0	
Pyridine	ND	ug/L	10.0	1.6	1	10/26/12 15:30	10/30/12 14:32	110-86-1	
Safrole	ND	ug/L	10.0	5.7	1	10/26/12 15:30	10/30/12 14:32	94-59-7	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-03 **Lab ID: 92136280005** Collected: 10/23/12 15:30 Received: 10/25/12 09:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Sulfotepp (Thiodiphosphoric Ac	ND	ug/L	20.0	6.1	1	10/26/12 15:30	10/30/12 14:32	3689-24-5	
Terpineol	ND	ug/L	10.0	5.2	1	10/26/12 15:30	10/30/12 14:32	98-55-5	
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10.0	4.0	1	10/26/12 15:30	10/30/12 14:32	95-94-3	
2,3,4,6-Tetrachlorophenol	ND	ug/L	10.0	1.2	1	10/26/12 15:30	10/30/12 14:32	58-90-2	
Thionazin	ND	ug/L	20.0	4.8	1	10/26/12 15:30	10/30/12 14:32	297-97-2	
2,6-Toluene diisocyanate	ND	ug/L	10.0	5.0	1	10/26/12 15:30	10/30/12 14:32	91-08-7	
O-Toluidine	ND	ug/L	10.0	5.7	1	10/26/12 15:30	10/30/12 14:32	95-53-4	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.98	1	10/26/12 15:30	10/30/12 14:32	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	0.92	1	10/26/12 15:30	10/30/12 14:32	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.3	1	10/26/12 15:30	10/30/12 14:32	88-06-2	
1,3,5-Trinitrobenzene	ND	ug/L	10.0	5.2	1	10/26/12 15:30	10/30/12 14:32	99-35-4	
Surrogates									
Nitrobenzene-d5 (S)	71	%	21-110		1	10/26/12 15:30	10/30/12 14:32	4165-60-0	
2-Fluorobiphenyl (S)	72	%	27-110		1	10/26/12 15:30	10/30/12 14:32	321-60-8	
Terphenyl-d14 (S)	105	%	31-107		1	10/26/12 15:30	10/30/12 14:32	1718-51-0	
Phenol-d6 (S)	19	%	10-110		1	10/26/12 15:30	10/30/12 14:32	13127-88-3	
2-Fluorophenol (S)	33	%	12-110		1	10/26/12 15:30	10/30/12 14:32	367-12-4	
2,4,6-Tribromophenol (S)	81	%	27-110		1	10/26/12 15:30	10/30/12 14:32	118-79-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		11/03/12 20:17	67-64-1	
Acetonitrile	ND	ug/L	50.0	2.2	1		11/03/12 20:17	75-05-8	
Acrolein	ND	ug/L	10.0	1.6	1		11/03/12 20:17	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1.9	1		11/03/12 20:17	107-13-1	
Allyl chloride	ND	ug/L	2.0	1.5	1		11/03/12 20:17	107-05-1	
Benzene	**1.3**	ug/L	1.0	0.25	1		11/03/12 20:17	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		11/03/12 20:17	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		11/03/12 20:17	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		11/03/12 20:17	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		11/03/12 20:17	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		11/03/12 20:17	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		11/03/12 20:17	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		11/03/12 20:17	56-23-5	
Chlorobenzene	**11.6**	ug/L	1.0	0.23	1		11/03/12 20:17	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		11/03/12 20:17	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		11/03/12 20:17	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		11/03/12 20:17	74-87-3	
Chloroprene	ND	ug/L	5.0	0.27	1		11/03/12 20:17	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		11/03/12 20:17	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		11/03/12 20:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		11/03/12 20:17	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		11/03/12 20:17	74-95-3	
1,2-Dichlorobenzene	**0.51J**	ug/L	1.0	0.30	1		11/03/12 20:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		11/03/12 20:17	541-73-1	
1,4-Dichlorobenzene	**8.6**	ug/L	1.0	0.33	1		11/03/12 20:17	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		11/03/12 20:17	110-57-6	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-03 **Lab ID: 92136280005** Collected: 10/23/12 15:30 Received: 10/25/12 09:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		11/03/12 20:17	75-71-8	
1,1-Dichloroethane	**1.8**	ug/L	1.0	0.32	1		11/03/12 20:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		11/03/12 20:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		11/03/12 20:17	75-35-4	
cis-1,2-Dichloroethene	**3.5**	ug/L	1.0	0.19	1		11/03/12 20:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		11/03/12 20:17	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		11/03/12 20:17	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		11/03/12 20:17	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		11/03/12 20:17	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		11/03/12 20:17	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		11/03/12 20:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		11/03/12 20:17	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		11/03/12 20:17	100-41-4	
Ethyl methacrylate	ND	ug/L	1.0	0.20	1		11/03/12 20:17	97-63-2	
2-Hexanone	ND	ug/L	5.0	0.46	1		11/03/12 20:17	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		11/03/12 20:17	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		11/03/12 20:17	78-83-1	
Methacrylonitrile	ND	ug/L	10.0	0.93	1		11/03/12 20:17	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		11/03/12 20:17	75-09-2	
Methyl methacrylate	ND	ug/L	2.0	2.0	1		11/03/12 20:17	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		11/03/12 20:17	108-10-1	
Naphthalene	ND	ug/L	1.0	0.24	1		11/03/12 20:17	91-20-3	
Propionitrile	ND	ug/L	20.0	3.6	1		11/03/12 20:17	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		11/03/12 20:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		11/03/12 20:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		11/03/12 20:17	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		11/03/12 20:17	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		11/03/12 20:17	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		11/03/12 20:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		11/03/12 20:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		11/03/12 20:17	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		11/03/12 20:17	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		11/03/12 20:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		11/03/12 20:17	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		11/03/12 20:17	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		11/03/12 20:17	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		11/03/12 20:17	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		11/03/12 20:17	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		11/03/12 20:17	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		11/03/12 20:17	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		11/03/12 20:17	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		11/03/12 20:17	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		11/03/12 20:17	2037-26-5	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-03 **Lab ID: 92136280005** Collected: 10/23/12 15:30 Received: 10/25/12 09:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**87.5**	mg/L	5.0	1.0	1		11/02/12 18:23		
Iron, Ferrous	Analytical Method: SM 3500-Fe D#4								
Iron, Ferrous	ND	mg/L	0.50	0.50	1		10/31/12 09:22		N2
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		10/30/12 16:40	18496-25-8	
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	ND	mg/L	2.0	2.0	1	10/25/12 14:45	10/30/12 09:30		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**2.7**	mg/L	2.0	2.0	1		11/02/12 01:26	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.56**	mg/L	0.020	0.020	1		10/25/12 13:22		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**50.6**	mg/L	5.0	5.0	5		11/08/12 20:29	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	ND	mg/L	0.0050	0.0050	1		11/02/12 15:43	57-12-5	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	ND	mg/L	25.0	25.0	1		11/09/12 14:45		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**11.8**	mg/L	1.0	1.0	1		11/07/12 00:21	7440-44-0	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-04 **Lab ID: 92136280006** Collected: 10/24/12 10:36 Received: 10/25/12 09:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	**<0.86**	ug/L	6.2	0.86	1		10/30/12 08:43	74-84-0	
Ethene	**<0.79**	ug/L	6.2	0.79	1		10/30/12 08:43	74-85-1	
Methane	**889**	ug/L	6.6	3.3	1		10/30/12 08:43	74-82-8	
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3510								
PCB-1016 (Aroclor 1016)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 20:34	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 20:34	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 20:34	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 20:34	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 20:34	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 20:34	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 20:34	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	85	%	10-132		1	10/26/12 10:15	11/01/12 20:34	2051-24-3	
8151 Chlorinated Herbicides	Analytical Method: EPA 8151 Preparation Method: EPA 8151								
2,4-D	**<0.23**	ug/L	0.96	0.23	1	10/29/12 08:15	10/30/12 02:27	94-75-7	
Dinoseb	**<0.058**	ug/L	0.19	0.058	1	10/29/12 08:15	10/30/12 02:27	88-85-7	
Pentachlorophenol	**<0.017**	ug/L	0.029	0.017	1	10/29/12 08:15	10/30/12 02:27	87-86-5	
2,4,5-T	**<0.043**	ug/L	0.19	0.043	1	10/29/12 08:15	10/30/12 02:27	93-76-5	
2,4,5-TP (Silvex)	**<0.050**	ug/L	0.19	0.050	1	10/29/12 08:15	10/30/12 02:27	93-72-1	
Surrogates									
2,4-DCAA (S)	9	%	42-142		1	10/29/12 08:15	10/30/12 02:27	19719-28-9	S5
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	5.0	1	11/02/12 07:10	11/07/12 18:35	7440-36-0	
Arsenic	ND	ug/L	5.0	5.0	1	11/02/12 07:10	11/07/12 18:35	7440-38-2	
Barium	**88.5**	ug/L	5.0	5.0	1	11/02/12 07:10	11/07/12 18:35	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	11/02/12 07:10	11/07/12 18:35	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	11/02/12 07:10	11/07/12 18:35	7440-43-9	
Chromium	ND	ug/L	5.0	5.0	1	11/02/12 07:10	11/07/12 18:35	7440-47-3	
Cobalt	ND	ug/L	5.0	5.0	1	11/02/12 07:10	11/07/12 18:35	7440-48-4	
Copper	ND	ug/L	5.0	5.0	1	11/02/12 07:10	11/07/12 18:35	7440-50-8	
Lead	ND	ug/L	5.0	5.0	1	11/02/12 07:10	11/07/12 18:35	7439-92-1	
Nickel	ND	ug/L	5.0	5.0	1	11/02/12 07:10	11/07/12 18:35	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	11/02/12 07:10	11/07/12 18:35	7782-49-2	
Silver	ND	ug/L	5.0	5.0	1	11/02/12 07:10	11/07/12 18:35	7440-22-4	
Thallium	ND	ug/L	5.4	5.4	1	11/02/12 07:10	11/07/12 18:35	7440-28-0	
Tin	ND	ug/L	5.0	5.0	1	11/02/12 07:10	11/07/12 18:35	7440-31-5	
Vanadium	ND	ug/L	5.0	5.0	1	11/02/12 07:10	11/07/12 18:35	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	11/02/12 07:10	11/07/12 18:35	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Thallium	**0.067J**	ug/L	0.10	0.019	1	10/31/12 17:45	11/08/12 16:35	7440-28-0	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-04 **Lab ID: 92136280006** Collected: 10/24/12 10:36 Received: 10/25/12 09:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	**0.11J**	ug/L	0.20	0.10	1	11/02/12 16:20	11/05/12 13:09	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270		Preparation Method: EPA 3510						
Acenaphthene	ND	ug/L	10.0	0.25	1	10/26/12 15:30	10/30/12 15:49	83-32-9	
Acenaphthylene	ND	ug/L	10.0	0.21	1	10/26/12 15:30	10/30/12 15:49	208-96-8	
Acetophenone	ND	ug/L	10.0	0.99	1	10/26/12 15:30	10/30/12 15:49	98-86-2	
2-Acetylaminofluorene	ND	ug/L	20.0	5.8	1	10/26/12 15:30	10/30/12 15:49	53-96-3	
4-Aminobiphenyl	ND	ug/L	10.0	5.2	1	10/26/12 15:30	10/30/12 15:49	92-67-1	
Aniline	ND	ug/L	10.0	2.0	1	10/26/12 15:30	10/30/12 15:49	62-53-3	
Anthracene	ND	ug/L	10.0	0.14	1	10/26/12 15:30	10/30/12 15:49	120-12-7	
Aramite	ND	ug/L	100	4.9	1	10/26/12 15:30	10/30/12 15:49	140-57-8	
Atrazine	ND	ug/L	20.0	6.5	1	10/26/12 15:30	10/30/12 15:49	1912-24-9	
Benzal chloride	ND	ug/L	50.0	3.9	1	10/26/12 15:30	10/30/12 15:49	98-87-3	
Benzaldehyde	ND	ug/L	20.0	12.0	1	10/26/12 15:30	10/30/12 15:49	100-52-7	
Benzidine	ND	ug/L	50.0	5.1	1	10/26/12 15:30	10/30/12 15:49	92-87-5	
Benzo(a)anthracene	ND	ug/L	10.0	0.33	1	10/26/12 15:30	10/30/12 15:49	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	0.30	1	10/26/12 15:30	10/30/12 15:49	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	0.28	1	10/26/12 15:30	10/30/12 15:49	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	0.38	1	10/26/12 15:30	10/30/12 15:49	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	0.43	1	10/26/12 15:30	10/30/12 15:49	207-08-9	
Benzoic Acid	ND	ug/L	50.0	11.5	1	10/26/12 15:30	10/30/12 15:49	65-85-0	
Benzophenone	ND	ug/L	10.0	4.9	1	10/26/12 15:30	10/30/12 15:49	119-61-9	
Benzyl alcohol	ND	ug/L	20.0	2.4	1	10/26/12 15:30	10/30/12 15:49	100-51-6	
Biphenyl (Diphenyl)	ND	ug/L	10.0	1.0	1	10/26/12 15:30	10/30/12 15:49	92-52-4	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.82	1	10/26/12 15:30	10/30/12 15:49	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	0.79	1	10/26/12 15:30	10/30/12 15:49	85-68-7	
Caprolactam	ND	ug/L	10.0	2.1	1	10/26/12 15:30	10/30/12 15:49	105-60-2	
Carbazole	ND	ug/L	10.0	0.54	1	10/26/12 15:30	10/30/12 15:49	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	20.0	3.7	1	10/26/12 15:30	10/30/12 15:49	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	10/26/12 15:30	10/30/12 15:49	106-47-8	
Chlorobenzilate	ND	ug/L	10.0	4.5	1	10/26/12 15:30	10/30/12 15:49	510-15-6	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.92	1	10/26/12 15:30	10/30/12 15:49	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.0	1	10/26/12 15:30	10/30/12 15:49	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	0.95	1	10/26/12 15:30	10/30/12 15:49	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.0	0.98	1	10/26/12 15:30	10/30/12 15:49	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.3	1	10/26/12 15:30	10/30/12 15:49	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.87	1	10/26/12 15:30	10/30/12 15:49	7005-72-3	
Chrysene	ND	ug/L	10.0	0.21	1	10/26/12 15:30	10/30/12 15:49	218-01-9	
n-Decane	ND	ug/L	10.0	0.91	1	10/26/12 15:30	10/30/12 15:49	124-18-5	
Diallate	ND	ug/L	10.0	5.4	1	10/26/12 15:30	10/30/12 15:49	2303-16-4	
Dibenz(a,h)anthracene	ND	ug/L	10.0	0.55	1	10/26/12 15:30	10/30/12 15:49	53-70-3	
Dibenzo(a,e)pyrene	ND	ug/L	50.0	3.4	1	10/26/12 15:30	10/30/12 15:49	192-65-4	
Dibenzofuran	ND	ug/L	10.0	0.89	1	10/26/12 15:30	10/30/12 15:49	132-64-9	
2,3-Dibromo-1-propanol phosph	ND	ug/L	75.0	8.0	1	10/26/12 15:30	10/30/12 15:49	126-72-7	
1,2-Dichlorobenzene	ND	ug/L	10.0	0.88	1	10/26/12 15:30	10/30/12 15:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	0.81	1	10/26/12 15:30	10/30/12 15:49	541-73-1	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-04 **Lab ID: 92136280006** Collected: 10/24/12 10:36 Received: 10/25/12 09:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
1,4-Dichlorobenzene	**3.4J**	ug/L	10.0	0.95	1	10/26/12 15:30	10/30/12 15:49	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.1	1	10/26/12 15:30	10/30/12 15:49	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.7	1	10/26/12 15:30	10/30/12 15:49	120-83-2	
2,6-Dichlorophenol	ND	ug/L	10.0	5.7	1	10/26/12 15:30	10/30/12 15:49	87-65-0	
2,3-Dichloroaniline	ND	ug/L	10.0	3.2	1	10/26/12 15:30	10/30/12 15:49	99-09-2	
Diethylphthalate	ND	ug/L	10.0	0.58	1	10/26/12 15:30	10/30/12 15:49	84-66-2	
Dimethoate	ND	ug/L	10.0	4.9	1	10/26/12 15:30	10/30/12 15:49	60-51-5	
P-Dimethylaminoazobenzene	ND	ug/L	5.0	2.7	1	10/26/12 15:30	10/30/12 15:49	60-11-7	
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10.0	4.9	1	10/26/12 15:30	10/30/12 15:49	57-97-6	
3,3'-Dimethylbenzidine	ND	ug/L	10.0	9.6	1	10/26/12 15:30	10/30/12 15:49	119-93-7	
2,4-Dimethylphenol	ND	ug/L	10.0	1.2	1	10/26/12 15:30	10/30/12 15:49	105-67-9	
a,a-Dimethylphenylethylamine	ND	ug/L	50.0	8.4	1	10/26/12 15:30	10/30/12 15:49	122-09-8	
Dimethylphthalate	ND	ug/L	10.0	0.76	1	10/26/12 15:30	10/30/12 15:49	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	0.75	1	10/26/12 15:30	10/30/12 15:49	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	2.6	1	10/26/12 15:30	10/30/12 15:49	534-52-1	
1,3-Dinitrobenzene	ND	ug/L	20.0	5.1	1	10/26/12 15:30	10/30/12 15:49	99-65-0	
1,4-Dinitrobenzene	ND	ug/L	20.0	5.0	1	10/26/12 15:30	10/30/12 15:49	100-25-4	
2,4-Dinitrophenol	ND	ug/L	50.0	9.0	1	10/26/12 15:30	10/30/12 15:49	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.90	1	10/26/12 15:30	10/30/12 15:49	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	0.98	1	10/26/12 15:30	10/30/12 15:49	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	0.66	1	10/26/12 15:30	10/30/12 15:49	117-84-0	
Dinoseb	ND	ug/L	20.0	5.7	1	10/26/12 15:30	10/30/12 15:49	88-85-7	
Diphenylamine	ND	ug/L	10.0	1.0	1	10/26/12 15:30	10/30/12 15:49	122-39-4	
Diphenyl ether (Phenyl ether)	ND	ug/L	20.0	4.6	1	10/26/12 15:30	10/30/12 15:49	101-84-8	
1,2-Diphenylhydrazine	ND	ug/L	10.0	0.90	1	10/26/12 15:30	10/30/12 15:49	122-66-7	
Disulfoton	ND	ug/L	10.0	5.5	1	10/26/12 15:30	10/30/12 15:49	298-04-4	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	0.79	1	10/26/12 15:30	10/30/12 15:49	117-81-7	
Ethyl methanesulfonate	ND	ug/L	20.0	5.6	1	10/26/12 15:30	10/30/12 15:49	62-50-0	
Famphur	ND	ug/L	10.0	3.7	1	10/26/12 15:30	10/30/12 15:49	52-85-7	
Fluoranthene	ND	ug/L	10.0	0.21	1	10/26/12 15:30	10/30/12 15:49	206-44-0	
Fluorene	ND	ug/L	10.0	0.21	1	10/26/12 15:30	10/30/12 15:49	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.94	1	10/26/12 15:30	10/30/12 15:49	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	0.72	1	10/26/12 15:30	10/30/12 15:49	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	0.88	1	10/26/12 15:30	10/30/12 15:49	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.1	1	10/26/12 15:30	10/30/12 15:49	67-72-1	
Hexachlorophene	ND	ug/L	100	28.0	1	10/26/12 15:30	10/30/12 15:49	70-30-4	
Hexachloropropene	ND	ug/L	10.0	3.2	1	10/26/12 15:30	10/30/12 15:49	1888-71-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	0.29	1	10/26/12 15:30	10/30/12 15:49	193-39-5	
Isodrin	ND	ug/L	20.0	5.7	1	10/26/12 15:30	10/30/12 15:49	465-73-6	
Isophorone	ND	ug/L	10.0	0.89	1	10/26/12 15:30	10/30/12 15:49	78-59-1	
Isosafrole	ND	ug/L	10.0	4.4	1	10/26/12 15:30	10/30/12 15:49	120-58-1	
Kepone	ND	ug/L	10.0	8.3	1	10/26/12 15:30	10/30/12 15:49	143-50-0	
Methapyrilene	ND	ug/L	50.0	5.8	1	10/26/12 15:30	10/30/12 15:49	91-80-5	
3-Methylcholanthrene	ND	ug/L	10.0	2.6	1	10/26/12 15:30	10/30/12 15:49	56-49-5	
4,4'-Methylene-bis(2-chloroani	ND	ug/L	50.0	12.0	1	10/26/12 15:30	10/30/12 15:49	101-14-4	
Methyl methanesulfonate	ND	ug/L	5.0	3.7	1	10/26/12 15:30	10/30/12 15:49	66-27-3	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-04 **Lab ID: 92136280006** Collected: 10/24/12 10:36 Received: 10/25/12 09:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
1-Methylnaphthalene	ND	ug/L	10.0	0.32	1	10/26/12 15:30	10/30/12 15:49	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	0.28	1	10/26/12 15:30	10/30/12 15:49	91-57-6	
2-Methyl-5-nitroaniline	ND	ug/L	10.0	5.2	1	10/26/12 15:30	10/30/12 15:49	99-55-8	
Methyl parathion	ND	ug/L	10.0	4.9	1	10/26/12 15:30	10/30/12 15:49	298-00-0	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.6	1	10/26/12 15:30	10/30/12 15:49	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	2.0	1	10/26/12 15:30	10/30/12 15:49		
1-Naphthalenamine	ND	ug/L	5.0	4.1	1	10/26/12 15:30	10/30/12 15:49	134-32-7	
2-Naphthalenamine	ND	ug/L	5.0	3.0	1	10/26/12 15:30	10/30/12 15:49	91-59-8	
Naphthalene	ND	ug/L	10.0	0.34	1	10/26/12 15:30	10/30/12 15:49	91-20-3	
1,4-Naphthoquinone	ND	ug/L	5.0	3.3	1	10/26/12 15:30	10/30/12 15:49	130-15-4	
2-Nitroaniline	ND	ug/L	50.0	2.0	1	10/26/12 15:30	10/30/12 15:49	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	2.0	1	10/26/12 15:30	10/30/12 15:49	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	2.1	1	10/26/12 15:30	10/30/12 15:49	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.1	1	10/26/12 15:30	10/30/12 15:49	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	0.91	1	10/26/12 15:30	10/30/12 15:49	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	4.1	1	10/26/12 15:30	10/30/12 15:49	100-02-7	
4-Nitroquinoline-n-oxide	ND	ug/L	50.0	13.0	1	10/26/12 15:30	10/30/12 15:49	56-57-5	
5-Nitro-o-toluidine	ND	ug/L	10.0	5.2	1	10/26/12 15:30	10/30/12 15:49	99-55-8	
N-Nitrosodiethylamine	ND	ug/L	20.0	5.6	1	10/26/12 15:30	10/30/12 15:49	55-18-5	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.91	1	10/26/12 15:30	10/30/12 15:49	62-75-9	
N-Nitroso-di-n-butylamine	ND	ug/L	10.0	7.5	1	10/26/12 15:30	10/30/12 15:49	924-16-3	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.99	1	10/26/12 15:30	10/30/12 15:49	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.0	1	10/26/12 15:30	10/30/12 15:49	86-30-6	
N-Nitrosomethylethylamine	ND	ug/L	10.0	4.7	1	10/26/12 15:30	10/30/12 15:49	10595-95-6	
N-Nitrosomorpholine	ND	ug/L	10.0	6.7	1	10/26/12 15:30	10/30/12 15:49	59-89-2	
N-Nitrosopiperidine	ND	ug/L	20.0	5.7	1	10/26/12 15:30	10/30/12 15:49	100-75-4	
N-Nitrosopyrrolidine	ND	ug/L	10.0	6.9	1	10/26/12 15:30	10/30/12 15:49	930-55-2	
n-Octadecane	ND	ug/L	10.0	0.84	1	10/26/12 15:30	10/30/12 15:49	593-45-3	
O,O,O-Triethylphosphorothioate	ND	ug/L	10.0	5.1	1	10/26/12 15:30	10/30/12 15:49	126-68-1	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	0.95	1	10/26/12 15:30	10/30/12 15:49	108-60-1	
Parathion (Ethyl parathion)	ND	ug/L	10.0	5.1	1	10/26/12 15:30	10/30/12 15:49	56-38-2	
Pentachlorobenzene	ND	ug/L	10.0	4.3	1	10/26/12 15:30	10/30/12 15:49	608-93-5	
Pentachloroethane	ND	ug/L	20.0	3.3	1	10/26/12 15:30	10/30/12 15:49	76-01-7	
Pentachloronitrobenzene	ND	ug/L	20.0	4.8	1	10/26/12 15:30	10/30/12 15:49	82-68-8	
Pentachlorophenol	ND	ug/L	25.0	4.6	1	10/26/12 15:30	10/30/12 15:49	87-86-5	
Phenacetin	ND	ug/L	20.0	4.8	1	10/26/12 15:30	10/30/12 15:49	62-44-2	
Phenanthrene	ND	ug/L	10.0	0.22	1	10/26/12 15:30	10/30/12 15:49	85-01-8	
Phenol	ND	ug/L	10.0	1.9	1	10/26/12 15:30	10/30/12 15:49	108-95-2	
p-Phenylenediamine	ND	ug/L	10.0	6.7	1	10/26/12 15:30	10/30/12 15:49	106-50-3	
Phorate	ND	ug/L	10.0	5.4	1	10/26/12 15:30	10/30/12 15:49	298-02-2	
Phthalic anhydride	ND	ug/L	75.0	5.9	1	10/26/12 15:30	10/30/12 15:49	85-44-9	
2-Picoline	ND	ug/L	10.0	4.3	1	10/26/12 15:30	10/30/12 15:49	109-06-8	
Pronamide	ND	ug/L	10.0	5.8	1	10/26/12 15:30	10/30/12 15:49	23950-58-5	
Pyrene	ND	ug/L	10.0	0.19	1	10/26/12 15:30	10/30/12 15:49	129-00-0	
Pyridine	ND	ug/L	10.0	1.6	1	10/26/12 15:30	10/30/12 15:49	110-86-1	
Safrole	ND	ug/L	10.0	5.7	1	10/26/12 15:30	10/30/12 15:49	94-59-7	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-04 **Lab ID: 92136280006** Collected: 10/24/12 10:36 Received: 10/25/12 09:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Sulfotepp (Thiodiphosphoric Ac	ND	ug/L	20.0	6.1	1	10/26/12 15:30	10/30/12 15:49	3689-24-5	
Terpineol	ND	ug/L	10.0	5.2	1	10/26/12 15:30	10/30/12 15:49	98-55-5	
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10.0	4.0	1	10/26/12 15:30	10/30/12 15:49	95-94-3	
2,3,4,6-Tetrachlorophenol	ND	ug/L	10.0	1.2	1	10/26/12 15:30	10/30/12 15:49	58-90-2	
Thionazin	ND	ug/L	20.0	4.8	1	10/26/12 15:30	10/30/12 15:49	297-97-2	
2,6-Toluene diisocyanate	ND	ug/L	10.0	5.0	1	10/26/12 15:30	10/30/12 15:49	91-08-7	
O-Toluidine	ND	ug/L	10.0	5.7	1	10/26/12 15:30	10/30/12 15:49	95-53-4	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.98	1	10/26/12 15:30	10/30/12 15:49	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	0.92	1	10/26/12 15:30	10/30/12 15:49	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.3	1	10/26/12 15:30	10/30/12 15:49	88-06-2	
1,3,5-Trinitrobenzene	ND	ug/L	10.0	5.2	1	10/26/12 15:30	10/30/12 15:49	99-35-4	
Surrogates									
Nitrobenzene-d5 (S)	76	%	21-110		1	10/26/12 15:30	10/30/12 15:49	4165-60-0	
2-Fluorobiphenyl (S)	78	%	27-110		1	10/26/12 15:30	10/30/12 15:49	321-60-8	
Terphenyl-d14 (S)	108	%	31-107		1	10/26/12 15:30	10/30/12 15:49	1718-51-0	S0
Phenol-d6 (S)	19	%	10-110		1	10/26/12 15:30	10/30/12 15:49	13127-88-3	
2-Fluorophenol (S)	32	%	12-110		1	10/26/12 15:30	10/30/12 15:49	367-12-4	
2,4,6-Tribromophenol (S)	82	%	27-110		1	10/26/12 15:30	10/30/12 15:49	118-79-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		11/03/12 20:36	67-64-1	
Acetonitrile	ND	ug/L	50.0	2.2	1		11/03/12 20:36	75-05-8	
Acrolein	ND	ug/L	10.0	1.6	1		11/03/12 20:36	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1.9	1		11/03/12 20:36	107-13-1	
Allyl chloride	ND	ug/L	2.0	1.5	1		11/03/12 20:36	107-05-1	
Benzene	**0.93J**	ug/L	1.0	0.25	1		11/03/12 20:36	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		11/03/12 20:36	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		11/03/12 20:36	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		11/03/12 20:36	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		11/03/12 20:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		11/03/12 20:36	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		11/03/12 20:36	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		11/03/12 20:36	56-23-5	
Chlorobenzene	**4.4**	ug/L	1.0	0.23	1		11/03/12 20:36	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		11/03/12 20:36	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		11/03/12 20:36	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		11/03/12 20:36	74-87-3	
Chloroprene	ND	ug/L	5.0	0.27	1		11/03/12 20:36	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		11/03/12 20:36	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		11/03/12 20:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		11/03/12 20:36	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		11/03/12 20:36	74-95-3	
1,2-Dichlorobenzene	**0.32J**	ug/L	1.0	0.30	1		11/03/12 20:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		11/03/12 20:36	541-73-1	
1,4-Dichlorobenzene	**5.8**	ug/L	1.0	0.33	1		11/03/12 20:36	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		11/03/12 20:36	110-57-6	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-04 **Lab ID: 92136280006** Collected: 10/24/12 10:36 Received: 10/25/12 09:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		11/03/12 20:36	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		11/03/12 20:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		11/03/12 20:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		11/03/12 20:36	75-35-4	
cis-1,2-Dichloroethene	**6.3**	ug/L	1.0	0.19	1		11/03/12 20:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		11/03/12 20:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		11/03/12 20:36	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		11/03/12 20:36	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		11/03/12 20:36	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		11/03/12 20:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		11/03/12 20:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		11/03/12 20:36	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		11/03/12 20:36	100-41-4	
Ethyl methacrylate	ND	ug/L	1.0	0.20	1		11/03/12 20:36	97-63-2	
2-Hexanone	ND	ug/L	5.0	0.46	1		11/03/12 20:36	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		11/03/12 20:36	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		11/03/12 20:36	78-83-1	
Methacrylonitrile	ND	ug/L	10.0	0.93	1		11/03/12 20:36	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		11/03/12 20:36	75-09-2	
Methyl methacrylate	ND	ug/L	2.0	2.0	1		11/03/12 20:36	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		11/03/12 20:36	108-10-1	
Naphthalene	ND	ug/L	1.0	0.24	1		11/03/12 20:36	91-20-3	
Propionitrile	ND	ug/L	20.0	3.6	1		11/03/12 20:36	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		11/03/12 20:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		11/03/12 20:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		11/03/12 20:36	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		11/03/12 20:36	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		11/03/12 20:36	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		11/03/12 20:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		11/03/12 20:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		11/03/12 20:36	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		11/03/12 20:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		11/03/12 20:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		11/03/12 20:36	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		11/03/12 20:36	108-05-4	
Vinyl chloride	**1.1**	ug/L	1.0	0.62	1		11/03/12 20:36	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		11/03/12 20:36	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		11/03/12 20:36	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		11/03/12 20:36	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		11/03/12 20:36	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		11/03/12 20:36	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		11/03/12 20:36	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		11/03/12 20:36	2037-26-5	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-04 **Lab ID: 92136280006** Collected: 10/24/12 10:36 Received: 10/25/12 09:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**95.2**	mg/L	5.0	1.0	1		11/02/12 19:21		
Iron, Ferrous	Analytical Method: SM 3500-Fe D#4								
Iron, Ferrous	ND	mg/L	0.50	0.50	1		10/31/12 09:24		N2
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		10/30/12 16:40	18496-25-8	
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	ND	mg/L	2.0	2.0	1	10/25/12 14:45	10/30/12 09:30		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**105**	mg/L	100	100	50		11/02/12 12:19	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**4.0**	mg/L	0.020	0.020	1		10/25/12 13:25		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**83.4**	mg/L	5.0	5.0	5		11/08/12 20:36	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	ND	mg/L	0.0050	0.0050	1		11/02/12 15:44	57-12-5	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	ND	mg/L	25.0	25.0	1		11/09/12 14:45		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**14.4**	mg/L	1.0	1.0	1		11/07/12 00:31	7440-44-0	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-07 **Lab ID: 92136280007** Collected: 10/24/12 11:52 Received: 10/25/12 09:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	**<0.86**	ug/L	6.2	0.86	1		10/30/12 08:54	74-84-0	
Ethene	**1.0J**	ug/L	6.2	0.79	1		10/30/12 08:54	74-85-1	
Methane	**1200**	ug/L	6.6	3.3	1		10/30/12 08:54	74-82-8	
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3510								
PCB-1016 (Aroclor 1016)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 20:54	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 20:54	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 20:54	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 20:54	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 20:54	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 20:54	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 20:54	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	91	%	10-132		1	10/26/12 10:15	11/01/12 20:54	2051-24-3	
8151 Chlorinated Herbicides	Analytical Method: EPA 8151 Preparation Method: EPA 8151								
2,4-D	**<0.23**	ug/L	0.97	0.23	1	10/29/12 08:15	10/30/12 02:57	94-75-7	
Dinoseb	**<0.059**	ug/L	0.19	0.059	1	10/29/12 08:15	10/30/12 02:57	88-85-7	
Pentachlorophenol	**<0.018**	ug/L	0.029	0.018	1	10/29/12 08:15	10/30/12 02:57	87-86-5	
2,4,5-T	**<0.043**	ug/L	0.20	0.043	1	10/29/12 08:15	10/30/12 02:57	93-76-5	
2,4,5-TP (Silvex)	**<0.051**	ug/L	0.20	0.051	1	10/29/12 08:15	10/30/12 02:57	93-72-1	
Surrogates									
2,4-DCAA (S)	90	%	42-142		1	10/29/12 08:15	10/30/12 02:57	19719-28-9	
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	5.0	1	11/02/12 07:10	11/07/12 18:39	7440-36-0	
Arsenic	ND	ug/L	5.0	5.0	1	11/02/12 07:10	11/07/12 18:39	7440-38-2	
Barium	**273**	ug/L	5.0	5.0	1	11/02/12 07:10	11/07/12 18:39	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	11/02/12 07:10	11/07/12 18:39	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	11/02/12 07:10	11/07/12 18:39	7440-43-9	
Chromium	ND	ug/L	5.0	5.0	1	11/02/12 07:10	11/07/12 18:39	7440-47-3	
Cobalt	ND	ug/L	5.0	5.0	1	11/02/12 07:10	11/07/12 18:39	7440-48-4	
Copper	ND	ug/L	5.0	5.0	1	11/02/12 07:10	11/07/12 18:39	7440-50-8	
Lead	ND	ug/L	5.0	5.0	1	11/02/12 07:10	11/07/12 18:39	7439-92-1	
Nickel	ND	ug/L	5.0	5.0	1	11/02/12 07:10	11/07/12 18:39	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	11/02/12 07:10	11/07/12 18:39	7782-49-2	
Silver	ND	ug/L	5.0	5.0	1	11/02/12 07:10	11/07/12 18:39	7440-22-4	
Thallium	ND	ug/L	5.4	5.4	1	11/02/12 07:10	11/07/12 18:39	7440-28-0	
Tin	ND	ug/L	5.0	5.0	1	11/02/12 07:10	11/07/12 18:39	7440-31-5	
Vanadium	ND	ug/L	5.0	5.0	1	11/02/12 07:10	11/07/12 18:39	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	11/02/12 07:10	11/07/12 18:39	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Thallium	**<0.019**	ug/L	0.10	0.019	1	10/31/12 17:45	11/08/12 16:39	7440-28-0	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-07 **Lab ID: 92136280007** Collected: 10/24/12 11:52 Received: 10/25/12 09:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	11/02/12 16:20	11/05/12 13:11	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270		Preparation Method: EPA 3510						
Acenaphthene	ND	ug/L	10.0	0.25	1	10/26/12 15:30	10/30/12 16:28	83-32-9	
Acenaphthylene	ND	ug/L	10.0	0.21	1	10/26/12 15:30	10/30/12 16:28	208-96-8	
Acetophenone	ND	ug/L	10.0	0.99	1	10/26/12 15:30	10/30/12 16:28	98-86-2	
2-Acetylaminofluorene	ND	ug/L	20.0	5.8	1	10/26/12 15:30	10/30/12 16:28	53-96-3	
4-Aminobiphenyl	ND	ug/L	10.0	5.2	1	10/26/12 15:30	10/30/12 16:28	92-67-1	
Aniline	ND	ug/L	10.0	2.0	1	10/26/12 15:30	10/30/12 16:28	62-53-3	
Anthracene	ND	ug/L	10.0	0.14	1	10/26/12 15:30	10/30/12 16:28	120-12-7	
Aramite	ND	ug/L	100	4.9	1	10/26/12 15:30	10/30/12 16:28	140-57-8	
Atrazine	ND	ug/L	20.0	6.5	1	10/26/12 15:30	10/30/12 16:28	1912-24-9	
Benzal chloride	ND	ug/L	50.0	3.9	1	10/26/12 15:30	10/30/12 16:28	98-87-3	
Benzaldehyde	ND	ug/L	20.0	12.0	1	10/26/12 15:30	10/30/12 16:28	100-52-7	
Benzidine	ND	ug/L	50.0	5.1	1	10/26/12 15:30	10/30/12 16:28	92-87-5	
Benzo(a)anthracene	ND	ug/L	10.0	0.33	1	10/26/12 15:30	10/30/12 16:28	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	0.30	1	10/26/12 15:30	10/30/12 16:28	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	0.28	1	10/26/12 15:30	10/30/12 16:28	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	0.38	1	10/26/12 15:30	10/30/12 16:28	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	0.43	1	10/26/12 15:30	10/30/12 16:28	207-08-9	
Benzoic Acid	ND	ug/L	50.0	11.5	1	10/26/12 15:30	10/30/12 16:28	65-85-0	
Benzophenone	ND	ug/L	10.0	4.9	1	10/26/12 15:30	10/30/12 16:28	119-61-9	
Benzyl alcohol	ND	ug/L	20.0	2.4	1	10/26/12 15:30	10/30/12 16:28	100-51-6	
Biphenyl (Diphenyl)	ND	ug/L	10.0	1.0	1	10/26/12 15:30	10/30/12 16:28	92-52-4	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.82	1	10/26/12 15:30	10/30/12 16:28	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	0.79	1	10/26/12 15:30	10/30/12 16:28	85-68-7	
Caprolactam	ND	ug/L	10.0	2.1	1	10/26/12 15:30	10/30/12 16:28	105-60-2	
Carbazole	ND	ug/L	10.0	0.54	1	10/26/12 15:30	10/30/12 16:28	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	20.0	3.7	1	10/26/12 15:30	10/30/12 16:28	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	10/26/12 15:30	10/30/12 16:28	106-47-8	
Chlorobenzilate	ND	ug/L	10.0	4.5	1	10/26/12 15:30	10/30/12 16:28	510-15-6	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.92	1	10/26/12 15:30	10/30/12 16:28	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.0	1	10/26/12 15:30	10/30/12 16:28	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	0.95	1	10/26/12 15:30	10/30/12 16:28	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.0	0.98	1	10/26/12 15:30	10/30/12 16:28	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.3	1	10/26/12 15:30	10/30/12 16:28	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.87	1	10/26/12 15:30	10/30/12 16:28	7005-72-3	
Chrysene	ND	ug/L	10.0	0.21	1	10/26/12 15:30	10/30/12 16:28	218-01-9	
n-Decane	ND	ug/L	10.0	0.91	1	10/26/12 15:30	10/30/12 16:28	124-18-5	
Diallate	ND	ug/L	10.0	5.4	1	10/26/12 15:30	10/30/12 16:28	2303-16-4	
Dibenz(a,h)anthracene	ND	ug/L	10.0	0.55	1	10/26/12 15:30	10/30/12 16:28	53-70-3	
Dibenzo(a,e)pyrene	ND	ug/L	50.0	3.4	1	10/26/12 15:30	10/30/12 16:28	192-65-4	
Dibenzofuran	ND	ug/L	10.0	0.89	1	10/26/12 15:30	10/30/12 16:28	132-64-9	
2,3-Dibromo-1-propanol phosph	ND	ug/L	75.0	8.0	1	10/26/12 15:30	10/30/12 16:28	126-72-7	
1,2-Dichlorobenzene	ND	ug/L	10.0	0.88	1	10/26/12 15:30	10/30/12 16:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	0.81	1	10/26/12 15:30	10/30/12 16:28	541-73-1	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-07 **Lab ID: 92136280007** Collected: 10/24/12 11:52 Received: 10/25/12 09:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
1,4-Dichlorobenzene	**2.9J**	ug/L	10.0	0.95	1	10/26/12 15:30	10/30/12 16:28	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.1	1	10/26/12 15:30	10/30/12 16:28	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.7	1	10/26/12 15:30	10/30/12 16:28	120-83-2	
2,6-Dichlorophenol	ND	ug/L	10.0	5.7	1	10/26/12 15:30	10/30/12 16:28	87-65-0	
2,3-Dichloroaniline	ND	ug/L	10.0	3.2	1	10/26/12 15:30	10/30/12 16:28	99-09-2	
Diethylphthalate	ND	ug/L	10.0	0.58	1	10/26/12 15:30	10/30/12 16:28	84-66-2	
Dimethoate	ND	ug/L	10.0	4.9	1	10/26/12 15:30	10/30/12 16:28	60-51-5	
P-Dimethylaminoazobenzene	ND	ug/L	5.0	2.7	1	10/26/12 15:30	10/30/12 16:28	60-11-7	
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10.0	4.9	1	10/26/12 15:30	10/30/12 16:28	57-97-6	
3,3'-Dimethylbenzidine	ND	ug/L	10.0	9.6	1	10/26/12 15:30	10/30/12 16:28	119-93-7	
2,4-Dimethylphenol	ND	ug/L	10.0	1.2	1	10/26/12 15:30	10/30/12 16:28	105-67-9	
a,a-Dimethylphenylethylamine	ND	ug/L	50.0	8.4	1	10/26/12 15:30	10/30/12 16:28	122-09-8	
Dimethylphthalate	ND	ug/L	10.0	0.76	1	10/26/12 15:30	10/30/12 16:28	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	0.75	1	10/26/12 15:30	10/30/12 16:28	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	2.6	1	10/26/12 15:30	10/30/12 16:28	534-52-1	
1,3-Dinitrobenzene	ND	ug/L	20.0	5.1	1	10/26/12 15:30	10/30/12 16:28	99-65-0	
1,4-Dinitrobenzene	ND	ug/L	20.0	5.0	1	10/26/12 15:30	10/30/12 16:28	100-25-4	
2,4-Dinitrophenol	ND	ug/L	50.0	9.0	1	10/26/12 15:30	10/30/12 16:28	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.90	1	10/26/12 15:30	10/30/12 16:28	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	0.98	1	10/26/12 15:30	10/30/12 16:28	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	0.66	1	10/26/12 15:30	10/30/12 16:28	117-84-0	
Dinoseb	ND	ug/L	20.0	5.7	1	10/26/12 15:30	10/30/12 16:28	88-85-7	
Diphenylamine	ND	ug/L	10.0	1.0	1	10/26/12 15:30	10/30/12 16:28	122-39-4	
Diphenyl ether (Phenyl ether)	ND	ug/L	20.0	4.6	1	10/26/12 15:30	10/30/12 16:28	101-84-8	
1,2-Diphenylhydrazine	ND	ug/L	10.0	0.90	1	10/26/12 15:30	10/30/12 16:28	122-66-7	
Disulfoton	ND	ug/L	10.0	5.5	1	10/26/12 15:30	10/30/12 16:28	298-04-4	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	0.79	1	10/26/12 15:30	10/30/12 16:28	117-81-7	
Ethyl methanesulfonate	ND	ug/L	20.0	5.6	1	10/26/12 15:30	10/30/12 16:28	62-50-0	
Famphur	ND	ug/L	10.0	3.7	1	10/26/12 15:30	10/30/12 16:28	52-85-7	
Fluoranthene	ND	ug/L	10.0	0.21	1	10/26/12 15:30	10/30/12 16:28	206-44-0	
Fluorene	ND	ug/L	10.0	0.21	1	10/26/12 15:30	10/30/12 16:28	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.94	1	10/26/12 15:30	10/30/12 16:28	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	0.72	1	10/26/12 15:30	10/30/12 16:28	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	0.88	1	10/26/12 15:30	10/30/12 16:28	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.1	1	10/26/12 15:30	10/30/12 16:28	67-72-1	
Hexachlorophene	ND	ug/L	100	28.0	1	10/26/12 15:30	10/30/12 16:28	70-30-4	
Hexachloropropene	ND	ug/L	10.0	3.2	1	10/26/12 15:30	10/30/12 16:28	1888-71-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	0.29	1	10/26/12 15:30	10/30/12 16:28	193-39-5	
Isodrin	ND	ug/L	20.0	5.7	1	10/26/12 15:30	10/30/12 16:28	465-73-6	
Isophorone	ND	ug/L	10.0	0.89	1	10/26/12 15:30	10/30/12 16:28	78-59-1	
Isosafrole	ND	ug/L	10.0	4.4	1	10/26/12 15:30	10/30/12 16:28	120-58-1	
Kepone	ND	ug/L	10.0	8.3	1	10/26/12 15:30	10/30/12 16:28	143-50-0	
Methapyrilene	ND	ug/L	50.0	5.8	1	10/26/12 15:30	10/30/12 16:28	91-80-5	
3-Methylcholanthrene	ND	ug/L	10.0	2.6	1	10/26/12 15:30	10/30/12 16:28	56-49-5	
4,4'-Methylene-bis(2-chloroani	ND	ug/L	50.0	12.0	1	10/26/12 15:30	10/30/12 16:28	101-14-4	
Methyl methanesulfonate	ND	ug/L	5.0	3.7	1	10/26/12 15:30	10/30/12 16:28	66-27-3	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-07 **Lab ID: 92136280007** Collected: 10/24/12 11:52 Received: 10/25/12 09:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
1-Methylnaphthalene	ND	ug/L	10.0	0.32	1	10/26/12 15:30	10/30/12 16:28	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	0.28	1	10/26/12 15:30	10/30/12 16:28	91-57-6	
2-Methyl-5-nitroaniline	ND	ug/L	10.0	5.2	1	10/26/12 15:30	10/30/12 16:28	99-55-8	
Methyl parathion	ND	ug/L	10.0	4.9	1	10/26/12 15:30	10/30/12 16:28	298-00-0	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.6	1	10/26/12 15:30	10/30/12 16:28	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	2.0	1	10/26/12 15:30	10/30/12 16:28		
1-Naphthalenamine	ND	ug/L	5.0	4.1	1	10/26/12 15:30	10/30/12 16:28	134-32-7	
2-Naphthalenamine	ND	ug/L	5.0	3.0	1	10/26/12 15:30	10/30/12 16:28	91-59-8	
Naphthalene	ND	ug/L	10.0	0.34	1	10/26/12 15:30	10/30/12 16:28	91-20-3	
1,4-Naphthoquinone	ND	ug/L	5.0	3.3	1	10/26/12 15:30	10/30/12 16:28	130-15-4	
2-Nitroaniline	ND	ug/L	50.0	2.0	1	10/26/12 15:30	10/30/12 16:28	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	2.0	1	10/26/12 15:30	10/30/12 16:28	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	2.1	1	10/26/12 15:30	10/30/12 16:28	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.1	1	10/26/12 15:30	10/30/12 16:28	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	0.91	1	10/26/12 15:30	10/30/12 16:28	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	4.1	1	10/26/12 15:30	10/30/12 16:28	100-02-7	
4-Nitroquinoline-n-oxide	ND	ug/L	50.0	13.0	1	10/26/12 15:30	10/30/12 16:28	56-57-5	
5-Nitro-o-toluidine	ND	ug/L	10.0	5.2	1	10/26/12 15:30	10/30/12 16:28	99-55-8	
N-Nitrosodiethylamine	ND	ug/L	20.0	5.6	1	10/26/12 15:30	10/30/12 16:28	55-18-5	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.91	1	10/26/12 15:30	10/30/12 16:28	62-75-9	
N-Nitroso-di-n-butylamine	ND	ug/L	10.0	7.5	1	10/26/12 15:30	10/30/12 16:28	924-16-3	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.99	1	10/26/12 15:30	10/30/12 16:28	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.0	1	10/26/12 15:30	10/30/12 16:28	86-30-6	
N-Nitrosomethylethylamine	ND	ug/L	10.0	4.7	1	10/26/12 15:30	10/30/12 16:28	10595-95-6	
N-Nitrosomorpholine	ND	ug/L	10.0	6.7	1	10/26/12 15:30	10/30/12 16:28	59-89-2	
N-Nitrosopiperidine	ND	ug/L	20.0	5.7	1	10/26/12 15:30	10/30/12 16:28	100-75-4	
N-Nitrosopyrrolidine	ND	ug/L	10.0	6.9	1	10/26/12 15:30	10/30/12 16:28	930-55-2	
n-Octadecane	ND	ug/L	10.0	0.84	1	10/26/12 15:30	10/30/12 16:28	593-45-3	
O,O,O-Triethylphosphorothioate	ND	ug/L	10.0	5.1	1	10/26/12 15:30	10/30/12 16:28	126-68-1	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	0.95	1	10/26/12 15:30	10/30/12 16:28	108-60-1	
Parathion (Ethyl parathion)	ND	ug/L	10.0	5.1	1	10/26/12 15:30	10/30/12 16:28	56-38-2	
Pentachlorobenzene	ND	ug/L	10.0	4.3	1	10/26/12 15:30	10/30/12 16:28	608-93-5	
Pentachloroethane	ND	ug/L	20.0	3.3	1	10/26/12 15:30	10/30/12 16:28	76-01-7	
Pentachloronitrobenzene	ND	ug/L	20.0	4.8	1	10/26/12 15:30	10/30/12 16:28	82-68-8	
Pentachlorophenol	ND	ug/L	25.0	4.6	1	10/26/12 15:30	10/30/12 16:28	87-86-5	
Phenacetin	ND	ug/L	20.0	4.8	1	10/26/12 15:30	10/30/12 16:28	62-44-2	
Phenanthrene	ND	ug/L	10.0	0.22	1	10/26/12 15:30	10/30/12 16:28	85-01-8	
Phenol	ND	ug/L	10.0	1.9	1	10/26/12 15:30	10/30/12 16:28	108-95-2	
p-Phenylenediamine	ND	ug/L	10.0	6.7	1	10/26/12 15:30	10/30/12 16:28	106-50-3	
Phorate	ND	ug/L	10.0	5.4	1	10/26/12 15:30	10/30/12 16:28	298-02-2	
Phthalic anhydride	ND	ug/L	75.0	5.9	1	10/26/12 15:30	10/30/12 16:28	85-44-9	
2-Picoline	ND	ug/L	10.0	4.3	1	10/26/12 15:30	10/30/12 16:28	109-06-8	
Pronamide	ND	ug/L	10.0	5.8	1	10/26/12 15:30	10/30/12 16:28	23950-58-5	
Pyrene	ND	ug/L	10.0	0.19	1	10/26/12 15:30	10/30/12 16:28	129-00-0	
Pyridine	ND	ug/L	10.0	1.6	1	10/26/12 15:30	10/30/12 16:28	110-86-1	
Safrole	ND	ug/L	10.0	5.7	1	10/26/12 15:30	10/30/12 16:28	94-59-7	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-07 **Lab ID: 92136280007** Collected: 10/24/12 11:52 Received: 10/25/12 09:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Sulfotepp (Thiodiphosphoric Ac	ND	ug/L	20.0	6.1	1	10/26/12 15:30	10/30/12 16:28	3689-24-5	
Terpineol	ND	ug/L	10.0	5.2	1	10/26/12 15:30	10/30/12 16:28	98-55-5	
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10.0	4.0	1	10/26/12 15:30	10/30/12 16:28	95-94-3	
2,3,4,6-Tetrachlorophenol	ND	ug/L	10.0	1.2	1	10/26/12 15:30	10/30/12 16:28	58-90-2	
Thionazin	ND	ug/L	20.0	4.8	1	10/26/12 15:30	10/30/12 16:28	297-97-2	
2,6-Toluene diisocyanate	ND	ug/L	10.0	5.0	1	10/26/12 15:30	10/30/12 16:28	91-08-7	
O-Toluidine	ND	ug/L	10.0	5.7	1	10/26/12 15:30	10/30/12 16:28	95-53-4	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.98	1	10/26/12 15:30	10/30/12 16:28	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	0.92	1	10/26/12 15:30	10/30/12 16:28	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.3	1	10/26/12 15:30	10/30/12 16:28	88-06-2	
1,3,5-Trinitrobenzene	ND	ug/L	10.0	5.2	1	10/26/12 15:30	10/30/12 16:28	99-35-4	
Surrogates									
Nitrobenzene-d5 (S)	76	%	21-110		1	10/26/12 15:30	10/30/12 16:28	4165-60-0	
2-Fluorobiphenyl (S)	80	%	27-110		1	10/26/12 15:30	10/30/12 16:28	321-60-8	
Terphenyl-d14 (S)	110	%	31-107		1	10/26/12 15:30	10/30/12 16:28	1718-51-0	S0
Phenol-d6 (S)	21	%	10-110		1	10/26/12 15:30	10/30/12 16:28	13127-88-3	
2-Fluorophenol (S)	35	%	12-110		1	10/26/12 15:30	10/30/12 16:28	367-12-4	
2,4,6-Tribromophenol (S)	87	%	27-110		1	10/26/12 15:30	10/30/12 16:28	118-79-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		11/03/12 20:55	67-64-1	
Acetonitrile	ND	ug/L	50.0	2.2	1		11/03/12 20:55	75-05-8	
Acrolein	ND	ug/L	10.0	1.6	1		11/03/12 20:55	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1.9	1		11/03/12 20:55	107-13-1	
Allyl chloride	ND	ug/L	2.0	1.5	1		11/03/12 20:55	107-05-1	
Benzene	**1.4**	ug/L	1.0	0.25	1		11/03/12 20:55	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		11/03/12 20:55	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		11/03/12 20:55	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		11/03/12 20:55	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		11/03/12 20:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		11/03/12 20:55	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		11/03/12 20:55	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		11/03/12 20:55	56-23-5	
Chlorobenzene	**5.7**	ug/L	1.0	0.23	1		11/03/12 20:55	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		11/03/12 20:55	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		11/03/12 20:55	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		11/03/12 20:55	74-87-3	
Chloroprene	ND	ug/L	5.0	0.27	1		11/03/12 20:55	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		11/03/12 20:55	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		11/03/12 20:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		11/03/12 20:55	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		11/03/12 20:55	74-95-3	
1,2-Dichlorobenzene	**0.40J**	ug/L	1.0	0.30	1		11/03/12 20:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		11/03/12 20:55	541-73-1	
1,4-Dichlorobenzene	**4.9**	ug/L	1.0	0.33	1		11/03/12 20:55	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		11/03/12 20:55	110-57-6	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-07 **Lab ID: 92136280007** Collected: 10/24/12 11:52 Received: 10/25/12 09:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		11/03/12 20:55	75-71-8	
1,1-Dichloroethane	**0.57J**	ug/L	1.0	0.32	1		11/03/12 20:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		11/03/12 20:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		11/03/12 20:55	75-35-4	
cis-1,2-Dichloroethene	**9.0**	ug/L	1.0	0.19	1		11/03/12 20:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		11/03/12 20:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		11/03/12 20:55	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		11/03/12 20:55	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		11/03/12 20:55	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		11/03/12 20:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		11/03/12 20:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		11/03/12 20:55	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		11/03/12 20:55	100-41-4	
Ethyl methacrylate	ND	ug/L	1.0	0.20	1		11/03/12 20:55	97-63-2	
2-Hexanone	ND	ug/L	5.0	0.46	1		11/03/12 20:55	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		11/03/12 20:55	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		11/03/12 20:55	78-83-1	
Methacrylonitrile	ND	ug/L	10.0	0.93	1		11/03/12 20:55	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		11/03/12 20:55	75-09-2	
Methyl methacrylate	ND	ug/L	2.0	2.0	1		11/03/12 20:55	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		11/03/12 20:55	108-10-1	
Naphthalene	ND	ug/L	1.0	0.24	1		11/03/12 20:55	91-20-3	
Propionitrile	ND	ug/L	20.0	3.6	1		11/03/12 20:55	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		11/03/12 20:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		11/03/12 20:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		11/03/12 20:55	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		11/03/12 20:55	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		11/03/12 20:55	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		11/03/12 20:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		11/03/12 20:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		11/03/12 20:55	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		11/03/12 20:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		11/03/12 20:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		11/03/12 20:55	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		11/03/12 20:55	108-05-4	
Vinyl chloride	**0.68J**	ug/L	1.0	0.62	1		11/03/12 20:55	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		11/03/12 20:55	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		11/03/12 20:55	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		11/03/12 20:55	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		11/03/12 20:55	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		11/03/12 20:55	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		11/03/12 20:55	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		11/03/12 20:55	2037-26-5	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-07 **Lab ID: 92136280007** Collected: 10/24/12 11:52 Received: 10/25/12 09:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**214**	mg/L	5.0	1.0	1		11/02/12 19:30		
Iron, Ferrous	Analytical Method: SM 3500-Fe D#4								
Iron, Ferrous	**1.8**	mg/L	0.50	0.50	1		10/31/12 09:24		N2
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		10/30/12 16:40	18496-25-8	
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	ND	mg/L	2.0	2.0	1	10/25/12 14:45	10/30/12 09:30		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**27.2**	mg/L	2.0	2.0	1		11/02/12 01:53	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.020	0.020	1		10/25/12 13:27		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**48.6**	mg/L	5.0	5.0	5		11/08/12 20:38	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	ND	mg/L	0.0050	0.0050	1		11/02/12 15:45	57-12-5	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	ND	mg/L	25.0	25.0	1		11/09/12 14:45		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**12.5**	mg/L	1.0	1.0	1		11/07/12 00:41	7440-44-0	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: SW-01 **Lab ID: 92136280008** Collected: 10/24/12 13:17 Received: 10/25/12 09:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3510								
PCB-1016 (Aroclor 1016)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 21:14	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 21:14	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 21:14	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 21:14	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 21:14	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 21:14	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 21:14	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	81	%	10-132		1	10/26/12 10:15	11/01/12 21:14	2051-24-3	
8151 Chlorinated Herbicides	Analytical Method: EPA 8151 Preparation Method: EPA 8151								
2,4-D	**<0.23**	ug/L	0.96	0.23	1	10/29/12 08:15	10/30/12 03:27	94-75-7	
Dinoseb	**<0.058**	ug/L	0.19	0.058	1	10/29/12 08:15	10/30/12 03:27	88-85-7	
Pentachlorophenol	**<0.017**	ug/L	0.029	0.017	1	10/29/12 08:15	10/30/12 03:27	87-86-5	
2,4,5-T	**<0.043**	ug/L	0.19	0.043	1	10/29/12 08:15	10/30/12 03:27	93-76-5	
2,4,5-TP (Silvex)	**<0.050**	ug/L	0.19	0.050	1	10/29/12 08:15	10/30/12 03:27	93-72-1	
Surrogates									
2,4-DCAA (S)	84	%	42-142		1	10/29/12 08:15	10/30/12 03:27	19719-28-9	
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	5.0	1	10/25/12 18:55	11/01/12 01:27	7440-36-0	
Arsenic	ND	ug/L	5.0	5.0	1	10/25/12 18:55	11/01/12 01:27	7440-38-2	
Barium	**13.1**	ug/L	5.0	5.0	1	10/25/12 18:55	11/01/12 01:27	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	10/25/12 18:55	11/01/12 01:27	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	10/25/12 18:55	11/01/12 01:27	7440-43-9	
Chromium	ND	ug/L	5.0	5.0	1	10/25/12 18:55	11/01/12 01:27	7440-47-3	
Cobalt	ND	ug/L	5.0	5.0	1	10/25/12 18:55	11/01/12 01:27	7440-48-4	
Copper	ND	ug/L	5.0	5.0	1	10/25/12 18:55	11/01/12 01:27	7440-50-8	
Lead	ND	ug/L	5.0	5.0	1	10/25/12 18:55	11/01/12 01:27	7439-92-1	
Nickel	ND	ug/L	5.0	5.0	1	10/25/12 18:55	11/01/12 01:27	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	10/25/12 18:55	11/01/12 01:27	7782-49-2	
Silver	ND	ug/L	5.0	5.0	1	10/25/12 18:55	11/01/12 01:27	7440-22-4	
Thallium	ND	ug/L	5.4	5.4	1	10/25/12 18:55	11/01/12 01:27	7440-28-0	
Tin	ND	ug/L	5.0	5.0	1	10/25/12 18:55	11/01/12 01:27	7440-31-5	
Vanadium	ND	ug/L	5.0	5.0	1	10/25/12 18:55	11/01/12 01:27	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	10/25/12 18:55	11/01/12 01:27	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Thallium	**<0.019**	ug/L	0.10	0.019	1	10/31/12 17:45	11/08/12 16:43	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	11/02/12 16:20	11/05/12 13:19	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Acenaphthene	ND	ug/L	10.0	0.25	1	10/26/12 15:30	10/30/12 17:06	83-32-9	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: SW-01 **Lab ID: 92136280008** Collected: 10/24/12 13:17 Received: 10/25/12 09:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Acenaphthylene	ND	ug/L	10.0	0.21	1	10/26/12 15:30	10/30/12 17:06	208-96-8	
Acetophenone	ND	ug/L	10.0	0.99	1	10/26/12 15:30	10/30/12 17:06	98-86-2	
2-Acetylaminofluorene	ND	ug/L	20.0	5.8	1	10/26/12 15:30	10/30/12 17:06	53-96-3	
4-Aminobiphenyl	ND	ug/L	10.0	5.2	1	10/26/12 15:30	10/30/12 17:06	92-67-1	
Aniline	ND	ug/L	10.0	2.0	1	10/26/12 15:30	10/30/12 17:06	62-53-3	
Anthracene	ND	ug/L	10.0	0.14	1	10/26/12 15:30	10/30/12 17:06	120-12-7	
Aramite	ND	ug/L	100	4.9	1	10/26/12 15:30	10/30/12 17:06	140-57-8	
Atrazine	ND	ug/L	20.0	6.5	1	10/26/12 15:30	10/30/12 17:06	1912-24-9	
Benzal chloride	ND	ug/L	50.0	3.9	1	10/26/12 15:30	10/30/12 17:06	98-87-3	
Benzaldehyde	ND	ug/L	20.0	12.0	1	10/26/12 15:30	10/30/12 17:06	100-52-7	
Benzidine	ND	ug/L	50.0	5.1	1	10/26/12 15:30	10/30/12 17:06	92-87-5	
Benzo(a)anthracene	ND	ug/L	10.0	0.33	1	10/26/12 15:30	10/30/12 17:06	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	0.30	1	10/26/12 15:30	10/30/12 17:06	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	0.28	1	10/26/12 15:30	10/30/12 17:06	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	0.38	1	10/26/12 15:30	10/30/12 17:06	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	0.43	1	10/26/12 15:30	10/30/12 17:06	207-08-9	
Benzoic Acid	ND	ug/L	50.0	11.5	1	10/26/12 15:30	10/30/12 17:06	65-85-0	
Benzophenone	ND	ug/L	10.0	4.9	1	10/26/12 15:30	10/30/12 17:06	119-61-9	
Benzyl alcohol	ND	ug/L	20.0	2.4	1	10/26/12 15:30	10/30/12 17:06	100-51-6	
Biphenyl (Diphenyl)	ND	ug/L	10.0	1.0	1	10/26/12 15:30	10/30/12 17:06	92-52-4	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.82	1	10/26/12 15:30	10/30/12 17:06	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	0.79	1	10/26/12 15:30	10/30/12 17:06	85-68-7	
Caprolactam	ND	ug/L	10.0	2.1	1	10/26/12 15:30	10/30/12 17:06	105-60-2	
Carbazole	ND	ug/L	10.0	0.54	1	10/26/12 15:30	10/30/12 17:06	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	20.0	3.7	1	10/26/12 15:30	10/30/12 17:06	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	10/26/12 15:30	10/30/12 17:06	106-47-8	
Chlorobenzilate	ND	ug/L	10.0	4.5	1	10/26/12 15:30	10/30/12 17:06	510-15-6	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.92	1	10/26/12 15:30	10/30/12 17:06	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.0	1	10/26/12 15:30	10/30/12 17:06	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	0.95	1	10/26/12 15:30	10/30/12 17:06	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.0	0.98	1	10/26/12 15:30	10/30/12 17:06	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.3	1	10/26/12 15:30	10/30/12 17:06	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.87	1	10/26/12 15:30	10/30/12 17:06	7005-72-3	
Chrysene	ND	ug/L	10.0	0.21	1	10/26/12 15:30	10/30/12 17:06	218-01-9	
n-Decane	ND	ug/L	10.0	0.91	1	10/26/12 15:30	10/30/12 17:06	124-18-5	
Diallate	ND	ug/L	10.0	5.4	1	10/26/12 15:30	10/30/12 17:06	2303-16-4	
Dibenz(a,h)anthracene	ND	ug/L	10.0	0.55	1	10/26/12 15:30	10/30/12 17:06	53-70-3	
Dibenzo(a,e)pyrene	ND	ug/L	50.0	3.4	1	10/26/12 15:30	10/30/12 17:06	192-65-4	
Dibenzofuran	ND	ug/L	10.0	0.89	1	10/26/12 15:30	10/30/12 17:06	132-64-9	
2,3-Dibromo-1-propanol phosph	ND	ug/L	75.0	8.0	1	10/26/12 15:30	10/30/12 17:06	126-72-7	
1,2-Dichlorobenzene	**15.9**	ug/L	10.0	0.88	1	10/26/12 15:30	10/30/12 17:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	0.81	1	10/26/12 15:30	10/30/12 17:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	0.95	1	10/26/12 15:30	10/30/12 17:06	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.1	1	10/26/12 15:30	10/30/12 17:06	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.7	1	10/26/12 15:30	10/30/12 17:06	120-83-2	
2,6-Dichlorophenol	ND	ug/L	10.0	5.7	1	10/26/12 15:30	10/30/12 17:06	87-65-0	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: SW-01 **Lab ID: 92136280008** Collected: 10/24/12 13:17 Received: 10/25/12 09:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
2,3-Dichloroaniline	ND	ug/L	10.0	3.2	1	10/26/12 15:30	10/30/12 17:06	99-09-2	
Diethylphthalate	ND	ug/L	10.0	0.58	1	10/26/12 15:30	10/30/12 17:06	84-66-2	
Dimethoate	ND	ug/L	10.0	4.9	1	10/26/12 15:30	10/30/12 17:06	60-51-5	
P-Dimethylaminoazobenzene	ND	ug/L	5.0	2.7	1	10/26/12 15:30	10/30/12 17:06	60-11-7	
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10.0	4.9	1	10/26/12 15:30	10/30/12 17:06	57-97-6	
3,3'-Dimethylbenzidine	ND	ug/L	10.0	9.6	1	10/26/12 15:30	10/30/12 17:06	119-93-7	
2,4-Dimethylphenol	ND	ug/L	10.0	1.2	1	10/26/12 15:30	10/30/12 17:06	105-67-9	
a,a-Dimethylphenylethylamine	ND	ug/L	50.0	8.4	1	10/26/12 15:30	10/30/12 17:06	122-09-8	
Dimethylphthalate	ND	ug/L	10.0	0.76	1	10/26/12 15:30	10/30/12 17:06	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	0.75	1	10/26/12 15:30	10/30/12 17:06	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	2.6	1	10/26/12 15:30	10/30/12 17:06	534-52-1	
1,3-Dinitrobenzene	ND	ug/L	20.0	5.1	1	10/26/12 15:30	10/30/12 17:06	99-65-0	
1,4-Dinitrobenzene	ND	ug/L	20.0	5.0	1	10/26/12 15:30	10/30/12 17:06	100-25-4	
2,4-Dinitrophenol	ND	ug/L	50.0	9.0	1	10/26/12 15:30	10/30/12 17:06	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.90	1	10/26/12 15:30	10/30/12 17:06	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	0.98	1	10/26/12 15:30	10/30/12 17:06	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	0.66	1	10/26/12 15:30	10/30/12 17:06	117-84-0	
Dinoseb	ND	ug/L	20.0	5.7	1	10/26/12 15:30	10/30/12 17:06	88-85-7	
Diphenylamine	ND	ug/L	10.0	1.0	1	10/26/12 15:30	10/30/12 17:06	122-39-4	
Diphenyl ether (Phenyl ether)	ND	ug/L	20.0	4.6	1	10/26/12 15:30	10/30/12 17:06	101-84-8	
1,2-Diphenylhydrazine	ND	ug/L	10.0	0.90	1	10/26/12 15:30	10/30/12 17:06	122-66-7	
Disulfoton	ND	ug/L	10.0	5.5	1	10/26/12 15:30	10/30/12 17:06	298-04-4	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	0.79	1	10/26/12 15:30	10/30/12 17:06	117-81-7	
Ethyl methanesulfonate	ND	ug/L	20.0	5.6	1	10/26/12 15:30	10/30/12 17:06	62-50-0	
Famphur	ND	ug/L	10.0	3.7	1	10/26/12 15:30	10/30/12 17:06	52-85-7	
Fluoranthene	ND	ug/L	10.0	0.21	1	10/26/12 15:30	10/30/12 17:06	206-44-0	
Fluorene	ND	ug/L	10.0	0.21	1	10/26/12 15:30	10/30/12 17:06	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.94	1	10/26/12 15:30	10/30/12 17:06	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	0.72	1	10/26/12 15:30	10/30/12 17:06	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	0.88	1	10/26/12 15:30	10/30/12 17:06	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.1	1	10/26/12 15:30	10/30/12 17:06	67-72-1	
Hexachlorophene	ND	ug/L	100	28.0	1	10/26/12 15:30	10/30/12 17:06	70-30-4	
Hexachloropropene	ND	ug/L	10.0	3.2	1	10/26/12 15:30	10/30/12 17:06	1888-71-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	0.29	1	10/26/12 15:30	10/30/12 17:06	193-39-5	
Isodrin	ND	ug/L	20.0	5.7	1	10/26/12 15:30	10/30/12 17:06	465-73-6	
Isophorone	ND	ug/L	10.0	0.89	1	10/26/12 15:30	10/30/12 17:06	78-59-1	
Isosafrole	ND	ug/L	10.0	4.4	1	10/26/12 15:30	10/30/12 17:06	120-58-1	
Kepone	ND	ug/L	10.0	8.3	1	10/26/12 15:30	10/30/12 17:06	143-50-0	
Methapyrilene	ND	ug/L	50.0	5.8	1	10/26/12 15:30	10/30/12 17:06	91-80-5	
3-Methylcholanthrene	ND	ug/L	10.0	2.6	1	10/26/12 15:30	10/30/12 17:06	56-49-5	
4,4'-Methylene-bis(2-chloroani	ND	ug/L	50.0	12.0	1	10/26/12 15:30	10/30/12 17:06	101-14-4	
Methyl methanesulfonate	ND	ug/L	5.0	3.7	1	10/26/12 15:30	10/30/12 17:06	66-27-3	
1-Methylnaphthalene	ND	ug/L	10.0	0.32	1	10/26/12 15:30	10/30/12 17:06	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	0.28	1	10/26/12 15:30	10/30/12 17:06	91-57-6	
2-Methyl-5-nitroaniline	ND	ug/L	10.0	5.2	1	10/26/12 15:30	10/30/12 17:06	99-55-8	
Methyl parathion	ND	ug/L	10.0	4.9	1	10/26/12 15:30	10/30/12 17:06	298-00-0	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: SW-01 **Lab ID: 92136280008** Collected: 10/24/12 13:17 Received: 10/25/12 09:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.6	1	10/26/12 15:30	10/30/12 17:06	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	2.0	1	10/26/12 15:30	10/30/12 17:06		
1-Naphthalenamine	ND	ug/L	5.0	4.1	1	10/26/12 15:30	10/30/12 17:06	134-32-7	
2-Naphthalenamine	ND	ug/L	5.0	3.0	1	10/26/12 15:30	10/30/12 17:06	91-59-8	
Naphthalene	ND	ug/L	10.0	0.34	1	10/26/12 15:30	10/30/12 17:06	91-20-3	
1,4-Naphthoquinone	ND	ug/L	5.0	3.3	1	10/26/12 15:30	10/30/12 17:06	130-15-4	
2-Nitroaniline	ND	ug/L	50.0	2.0	1	10/26/12 15:30	10/30/12 17:06	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	2.0	1	10/26/12 15:30	10/30/12 17:06	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	2.1	1	10/26/12 15:30	10/30/12 17:06	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.1	1	10/26/12 15:30	10/30/12 17:06	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	0.91	1	10/26/12 15:30	10/30/12 17:06	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	4.1	1	10/26/12 15:30	10/30/12 17:06	100-02-7	
4-Nitroquinoline-n-oxide	ND	ug/L	50.0	13.0	1	10/26/12 15:30	10/30/12 17:06	56-57-5	
5-Nitro-o-toluidine	ND	ug/L	10.0	5.2	1	10/26/12 15:30	10/30/12 17:06	99-55-8	
N-Nitrosodiethylamine	ND	ug/L	20.0	5.6	1	10/26/12 15:30	10/30/12 17:06	55-18-5	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.91	1	10/26/12 15:30	10/30/12 17:06	62-75-9	
N-Nitroso-di-n-butylamine	ND	ug/L	10.0	7.5	1	10/26/12 15:30	10/30/12 17:06	924-16-3	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.99	1	10/26/12 15:30	10/30/12 17:06	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.0	1	10/26/12 15:30	10/30/12 17:06	86-30-6	
N-Nitrosomethylethylamine	ND	ug/L	10.0	4.7	1	10/26/12 15:30	10/30/12 17:06	10595-95-6	
N-Nitrosomorpholine	ND	ug/L	10.0	6.7	1	10/26/12 15:30	10/30/12 17:06	59-89-2	
N-Nitrosopiperidine	ND	ug/L	20.0	5.7	1	10/26/12 15:30	10/30/12 17:06	100-75-4	
N-Nitrosopyrrolidine	ND	ug/L	10.0	6.9	1	10/26/12 15:30	10/30/12 17:06	930-55-2	
n-Octadecane	ND	ug/L	10.0	0.84	1	10/26/12 15:30	10/30/12 17:06	593-45-3	
O,O,O-Triethylphosphorothioate	ND	ug/L	10.0	5.1	1	10/26/12 15:30	10/30/12 17:06	126-68-1	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	0.95	1	10/26/12 15:30	10/30/12 17:06	108-60-1	
Parathion (Ethyl parathion)	ND	ug/L	10.0	5.1	1	10/26/12 15:30	10/30/12 17:06	56-38-2	
Pentachlorobenzene	ND	ug/L	10.0	4.3	1	10/26/12 15:30	10/30/12 17:06	608-93-5	
Pentachloroethane	ND	ug/L	20.0	3.3	1	10/26/12 15:30	10/30/12 17:06	76-01-7	
Pentachloronitrobenzene	ND	ug/L	20.0	4.8	1	10/26/12 15:30	10/30/12 17:06	82-68-8	
Pentachlorophenol	ND	ug/L	25.0	4.6	1	10/26/12 15:30	10/30/12 17:06	87-86-5	
Phenacetin	ND	ug/L	20.0	4.8	1	10/26/12 15:30	10/30/12 17:06	62-44-2	
Phenanthrene	ND	ug/L	10.0	0.22	1	10/26/12 15:30	10/30/12 17:06	85-01-8	
Phenol	ND	ug/L	10.0	1.9	1	10/26/12 15:30	10/30/12 17:06	108-95-2	
p-Phenylenediamine	ND	ug/L	10.0	6.7	1	10/26/12 15:30	10/30/12 17:06	106-50-3	
Phorate	ND	ug/L	10.0	5.4	1	10/26/12 15:30	10/30/12 17:06	298-02-2	
Phthalic anhydride	ND	ug/L	75.0	5.9	1	10/26/12 15:30	10/30/12 17:06	85-44-9	
2-Picoline	ND	ug/L	10.0	4.3	1	10/26/12 15:30	10/30/12 17:06	109-06-8	
Pronamide	ND	ug/L	10.0	5.8	1	10/26/12 15:30	10/30/12 17:06	23950-58-5	
Pyrene	ND	ug/L	10.0	0.19	1	10/26/12 15:30	10/30/12 17:06	129-00-0	
Pyridine	ND	ug/L	10.0	1.6	1	10/26/12 15:30	10/30/12 17:06	110-86-1	
Safrole	ND	ug/L	10.0	5.7	1	10/26/12 15:30	10/30/12 17:06	94-59-7	
Sulfotepp (Thiodiphosphoric Ac	ND	ug/L	20.0	6.1	1	10/26/12 15:30	10/30/12 17:06	3689-24-5	
Terpineol	ND	ug/L	10.0	5.2	1	10/26/12 15:30	10/30/12 17:06	98-55-5	
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10.0	4.0	1	10/26/12 15:30	10/30/12 17:06	95-94-3	
2,3,4,6-Tetrachlorophenol	ND	ug/L	10.0	1.2	1	10/26/12 15:30	10/30/12 17:06	58-90-2	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: SW-01 **Lab ID: 92136280008** Collected: 10/24/12 13:17 Received: 10/25/12 09:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Thionazin	ND	ug/L	20.0	4.8	1	10/26/12 15:30	10/30/12 17:06	297-97-2	
2,6-Toluene diisocyanate	ND	ug/L	10.0	5.0	1	10/26/12 15:30	10/30/12 17:06	91-08-7	
O-Toluidine	ND	ug/L	10.0	5.7	1	10/26/12 15:30	10/30/12 17:06	95-53-4	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.98	1	10/26/12 15:30	10/30/12 17:06	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	0.92	1	10/26/12 15:30	10/30/12 17:06	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.3	1	10/26/12 15:30	10/30/12 17:06	88-06-2	
1,3,5-Trinitrobenzene	ND	ug/L	10.0	5.2	1	10/26/12 15:30	10/30/12 17:06	99-35-4	
Surrogates									
Nitrobenzene-d5 (S)	59	%	21-110		1	10/26/12 15:30	10/30/12 17:06	4165-60-0	
2-Fluorobiphenyl (S)	60	%	27-110		1	10/26/12 15:30	10/30/12 17:06	321-60-8	
Terphenyl-d14 (S)	95	%	31-107		1	10/26/12 15:30	10/30/12 17:06	1718-51-0	
Phenol-d6 (S)	16	%	10-110		1	10/26/12 15:30	10/30/12 17:06	13127-88-3	
2-Fluorophenol (S)	27	%	12-110		1	10/26/12 15:30	10/30/12 17:06	367-12-4	
2,4,6-Tribromophenol (S)	67	%	27-110		1	10/26/12 15:30	10/30/12 17:06	118-79-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		11/03/12 21:13	67-64-1	
Acetonitrile	ND	ug/L	50.0	2.2	1		11/03/12 21:13	75-05-8	
Acrolein	ND	ug/L	10.0	1.6	1		11/03/12 21:13	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1.9	1		11/03/12 21:13	107-13-1	
Allyl chloride	ND	ug/L	2.0	1.5	1		11/03/12 21:13	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		11/03/12 21:13	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		11/03/12 21:13	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		11/03/12 21:13	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		11/03/12 21:13	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		11/03/12 21:13	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		11/03/12 21:13	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		11/03/12 21:13	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		11/03/12 21:13	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		11/03/12 21:13	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		11/03/12 21:13	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		11/03/12 21:13	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		11/03/12 21:13	74-87-3	
Chloroprene	ND	ug/L	5.0	0.27	1		11/03/12 21:13	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		11/03/12 21:13	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		11/03/12 21:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		11/03/12 21:13	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		11/03/12 21:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		11/03/12 21:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		11/03/12 21:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		11/03/12 21:13	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		11/03/12 21:13	110-57-6	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		11/03/12 21:13	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		11/03/12 21:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		11/03/12 21:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		11/03/12 21:13	75-35-4	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: SW-01 **Lab ID: 92136280008** Collected: 10/24/12 13:17 Received: 10/25/12 09:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		11/03/12 21:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		11/03/12 21:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		11/03/12 21:13	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		11/03/12 21:13	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		11/03/12 21:13	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		11/03/12 21:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		11/03/12 21:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		11/03/12 21:13	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		11/03/12 21:13	100-41-4	
Ethyl methacrylate	ND	ug/L	1.0	0.20	1		11/03/12 21:13	97-63-2	
2-Hexanone	ND	ug/L	5.0	0.46	1		11/03/12 21:13	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		11/03/12 21:13	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		11/03/12 21:13	78-83-1	
Methacrylonitrile	ND	ug/L	10.0	0.93	1		11/03/12 21:13	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		11/03/12 21:13	75-09-2	
Methyl methacrylate	ND	ug/L	2.0	2.0	1		11/03/12 21:13	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		11/03/12 21:13	108-10-1	
Naphthalene	ND	ug/L	1.0	0.24	1		11/03/12 21:13	91-20-3	
Propionitrile	ND	ug/L	20.0	3.6	1		11/03/12 21:13	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		11/03/12 21:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		11/03/12 21:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		11/03/12 21:13	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		11/03/12 21:13	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		11/03/12 21:13	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		11/03/12 21:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		11/03/12 21:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		11/03/12 21:13	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		11/03/12 21:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		11/03/12 21:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		11/03/12 21:13	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		11/03/12 21:13	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		11/03/12 21:13	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		11/03/12 21:13	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		11/03/12 21:13	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		11/03/12 21:13	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		11/03/12 21:13	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		11/03/12 21:13	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		11/03/12 21:13	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		11/03/12 21:13	2037-26-5	
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		10/30/12 16:40	18496-25-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	ND	mg/L	0.0050	0.0050	1		11/02/12 15:48	57-12-5	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: SW-02 **Lab ID: 92136280009** Collected: 10/24/12 14:26 Received: 10/25/12 09:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3510								
PCB-1016 (Aroclor 1016)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 21:34	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 21:34	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 21:34	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 21:34	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 21:34	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 21:34	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 21:34	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	81	%	10-132		1	10/26/12 10:15	11/01/12 21:34	2051-24-3	
8151 Chlorinated Herbicides	Analytical Method: EPA 8151 Preparation Method: EPA 8151								
2,4-D	**<0.23**	ug/L	0.96	0.23	1	10/29/12 08:15	10/30/12 03:58	94-75-7	
Dinoseb	**<0.058**	ug/L	0.19	0.058	1	10/29/12 08:15	10/30/12 03:58	88-85-7	
Pentachlorophenol	**<0.017**	ug/L	0.029	0.017	1	10/29/12 08:15	10/30/12 03:58	87-86-5	
2,4,5-T	**<0.043**	ug/L	0.19	0.043	1	10/29/12 08:15	10/30/12 03:58	93-76-5	
2,4,5-TP (Silvex)	**<0.050**	ug/L	0.20	0.050	1	10/29/12 08:15	10/30/12 03:58	93-72-1	
Surrogates									
2,4-DCAA (S)	77	%	42-142		1	10/29/12 08:15	10/30/12 03:58	19719-28-9	
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	5.0	1	11/02/12 07:10	11/07/12 18:43	7440-36-0	
Arsenic	ND	ug/L	5.0	5.0	1	11/02/12 07:10	11/07/12 18:43	7440-38-2	
Barium	**11.7**	ug/L	5.0	5.0	1	11/02/12 07:10	11/07/12 18:43	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	11/02/12 07:10	11/07/12 18:43	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	11/02/12 07:10	11/07/12 18:43	7440-43-9	
Chromium	ND	ug/L	5.0	5.0	1	11/02/12 07:10	11/07/12 18:43	7440-47-3	
Cobalt	ND	ug/L	5.0	5.0	1	11/02/12 07:10	11/07/12 18:43	7440-48-4	
Copper	ND	ug/L	5.0	5.0	1	11/02/12 07:10	11/07/12 18:43	7440-50-8	
Lead	ND	ug/L	5.0	5.0	1	11/02/12 07:10	11/07/12 18:43	7439-92-1	
Nickel	ND	ug/L	5.0	5.0	1	11/02/12 07:10	11/07/12 18:43	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	11/02/12 07:10	11/07/12 18:43	7782-49-2	
Silver	ND	ug/L	5.0	5.0	1	11/02/12 07:10	11/07/12 18:43	7440-22-4	
Thallium	ND	ug/L	5.4	5.4	1	11/02/12 07:10	11/07/12 18:43	7440-28-0	
Tin	ND	ug/L	5.0	5.0	1	11/02/12 07:10	11/07/12 18:43	7440-31-5	
Vanadium	ND	ug/L	5.0	5.0	1	11/02/12 07:10	11/07/12 18:43	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	11/02/12 07:10	11/07/12 18:43	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Thallium	**<0.019**	ug/L	0.10	0.019	1	10/31/12 17:45	11/08/12 16:47	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	11/02/12 16:20	11/05/12 13:22	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Acenaphthene	ND	ug/L	10.0	0.25	1	10/26/12 15:30	10/30/12 17:44	83-32-9	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: SW-02 **Lab ID: 92136280009** Collected: 10/24/12 14:26 Received: 10/25/12 09:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Acenaphthylene	ND	ug/L	10.0	0.21	1	10/26/12 15:30	10/30/12 17:44	208-96-8	
Acetophenone	ND	ug/L	10.0	0.99	1	10/26/12 15:30	10/30/12 17:44	98-86-2	
2-Acetylaminofluorene	ND	ug/L	20.0	5.8	1	10/26/12 15:30	10/30/12 17:44	53-96-3	
4-Aminobiphenyl	ND	ug/L	10.0	5.2	1	10/26/12 15:30	10/30/12 17:44	92-67-1	
Aniline	ND	ug/L	10.0	2.0	1	10/26/12 15:30	10/30/12 17:44	62-53-3	
Anthracene	ND	ug/L	10.0	0.14	1	10/26/12 15:30	10/30/12 17:44	120-12-7	
Aramite	ND	ug/L	100	4.9	1	10/26/12 15:30	10/30/12 17:44	140-57-8	
Atrazine	ND	ug/L	20.0	6.5	1	10/26/12 15:30	10/30/12 17:44	1912-24-9	
Benzal chloride	ND	ug/L	50.0	3.9	1	10/26/12 15:30	10/30/12 17:44	98-87-3	
Benzaldehyde	ND	ug/L	20.0	12.0	1	10/26/12 15:30	10/30/12 17:44	100-52-7	
Benzidine	ND	ug/L	50.0	5.1	1	10/26/12 15:30	10/30/12 17:44	92-87-5	
Benzo(a)anthracene	ND	ug/L	10.0	0.33	1	10/26/12 15:30	10/30/12 17:44	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	0.30	1	10/26/12 15:30	10/30/12 17:44	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	0.28	1	10/26/12 15:30	10/30/12 17:44	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	0.38	1	10/26/12 15:30	10/30/12 17:44	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	0.43	1	10/26/12 15:30	10/30/12 17:44	207-08-9	
Benzoic Acid	ND	ug/L	50.0	11.5	1	10/26/12 15:30	10/30/12 17:44	65-85-0	
Benzophenone	ND	ug/L	10.0	4.9	1	10/26/12 15:30	10/30/12 17:44	119-61-9	
Benzyl alcohol	ND	ug/L	20.0	2.4	1	10/26/12 15:30	10/30/12 17:44	100-51-6	
Biphenyl (Diphenyl)	ND	ug/L	10.0	1.0	1	10/26/12 15:30	10/30/12 17:44	92-52-4	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.82	1	10/26/12 15:30	10/30/12 17:44	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	0.79	1	10/26/12 15:30	10/30/12 17:44	85-68-7	
Caprolactam	ND	ug/L	10.0	2.1	1	10/26/12 15:30	10/30/12 17:44	105-60-2	
Carbazole	ND	ug/L	10.0	0.54	1	10/26/12 15:30	10/30/12 17:44	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	20.0	3.7	1	10/26/12 15:30	10/30/12 17:44	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	10/26/12 15:30	10/30/12 17:44	106-47-8	
Chlorobenzilate	ND	ug/L	10.0	4.5	1	10/26/12 15:30	10/30/12 17:44	510-15-6	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.92	1	10/26/12 15:30	10/30/12 17:44	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.0	1	10/26/12 15:30	10/30/12 17:44	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	0.95	1	10/26/12 15:30	10/30/12 17:44	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.0	0.98	1	10/26/12 15:30	10/30/12 17:44	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.3	1	10/26/12 15:30	10/30/12 17:44	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.87	1	10/26/12 15:30	10/30/12 17:44	7005-72-3	
Chrysene	ND	ug/L	10.0	0.21	1	10/26/12 15:30	10/30/12 17:44	218-01-9	
n-Decane	ND	ug/L	10.0	0.91	1	10/26/12 15:30	10/30/12 17:44	124-18-5	
Diallate	ND	ug/L	10.0	5.4	1	10/26/12 15:30	10/30/12 17:44	2303-16-4	
Dibenz(a,h)anthracene	ND	ug/L	10.0	0.55	1	10/26/12 15:30	10/30/12 17:44	53-70-3	
Dibenzo(a,e)pyrene	ND	ug/L	50.0	3.4	1	10/26/12 15:30	10/30/12 17:44	192-65-4	
Dibenzofuran	ND	ug/L	10.0	0.89	1	10/26/12 15:30	10/30/12 17:44	132-64-9	
2,3-Dibromo-1-propanol phosph	ND	ug/L	75.0	8.0	1	10/26/12 15:30	10/30/12 17:44	126-72-7	
1,2-Dichlorobenzene	**24.5**	ug/L	10.0	0.88	1	10/26/12 15:30	10/30/12 17:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	0.81	1	10/26/12 15:30	10/30/12 17:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	0.95	1	10/26/12 15:30	10/30/12 17:44	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.1	1	10/26/12 15:30	10/30/12 17:44	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.7	1	10/26/12 15:30	10/30/12 17:44	120-83-2	
2,6-Dichlorophenol	ND	ug/L	10.0	5.7	1	10/26/12 15:30	10/30/12 17:44	87-65-0	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: SW-02 **Lab ID: 92136280009** Collected: 10/24/12 14:26 Received: 10/25/12 09:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
2,3-Dichloroaniline	ND	ug/L	10.0	3.2	1	10/26/12 15:30	10/30/12 17:44	99-09-2	
Diethylphthalate	ND	ug/L	10.0	0.58	1	10/26/12 15:30	10/30/12 17:44	84-66-2	
Dimethoate	ND	ug/L	10.0	4.9	1	10/26/12 15:30	10/30/12 17:44	60-51-5	
P-Dimethylaminoazobenzene	ND	ug/L	5.0	2.7	1	10/26/12 15:30	10/30/12 17:44	60-11-7	
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10.0	4.9	1	10/26/12 15:30	10/30/12 17:44	57-97-6	
3,3'-Dimethylbenzidine	ND	ug/L	10.0	9.6	1	10/26/12 15:30	10/30/12 17:44	119-93-7	
2,4-Dimethylphenol	ND	ug/L	10.0	1.2	1	10/26/12 15:30	10/30/12 17:44	105-67-9	
a,a-Dimethylphenylethylamine	ND	ug/L	50.0	8.4	1	10/26/12 15:30	10/30/12 17:44	122-09-8	
Dimethylphthalate	ND	ug/L	10.0	0.76	1	10/26/12 15:30	10/30/12 17:44	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	0.75	1	10/26/12 15:30	10/30/12 17:44	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	2.6	1	10/26/12 15:30	10/30/12 17:44	534-52-1	
1,3-Dinitrobenzene	ND	ug/L	20.0	5.1	1	10/26/12 15:30	10/30/12 17:44	99-65-0	
1,4-Dinitrobenzene	ND	ug/L	20.0	5.0	1	10/26/12 15:30	10/30/12 17:44	100-25-4	
2,4-Dinitrophenol	ND	ug/L	50.0	9.0	1	10/26/12 15:30	10/30/12 17:44	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.90	1	10/26/12 15:30	10/30/12 17:44	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	0.98	1	10/26/12 15:30	10/30/12 17:44	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	0.66	1	10/26/12 15:30	10/30/12 17:44	117-84-0	
Dinoseb	ND	ug/L	20.0	5.7	1	10/26/12 15:30	10/30/12 17:44	88-85-7	
Diphenylamine	ND	ug/L	10.0	1.0	1	10/26/12 15:30	10/30/12 17:44	122-39-4	
Diphenyl ether (Phenyl ether)	ND	ug/L	20.0	4.6	1	10/26/12 15:30	10/30/12 17:44	101-84-8	
1,2-Diphenylhydrazine	ND	ug/L	10.0	0.90	1	10/26/12 15:30	10/30/12 17:44	122-66-7	
Disulfoton	ND	ug/L	10.0	5.5	1	10/26/12 15:30	10/30/12 17:44	298-04-4	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	0.79	1	10/26/12 15:30	10/30/12 17:44	117-81-7	
Ethyl methanesulfonate	ND	ug/L	20.0	5.6	1	10/26/12 15:30	10/30/12 17:44	62-50-0	
Famphur	ND	ug/L	10.0	3.7	1	10/26/12 15:30	10/30/12 17:44	52-85-7	
Fluoranthene	ND	ug/L	10.0	0.21	1	10/26/12 15:30	10/30/12 17:44	206-44-0	
Fluorene	ND	ug/L	10.0	0.21	1	10/26/12 15:30	10/30/12 17:44	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.94	1	10/26/12 15:30	10/30/12 17:44	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	0.72	1	10/26/12 15:30	10/30/12 17:44	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	0.88	1	10/26/12 15:30	10/30/12 17:44	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.1	1	10/26/12 15:30	10/30/12 17:44	67-72-1	
Hexachlorophene	ND	ug/L	100	28.0	1	10/26/12 15:30	10/30/12 17:44	70-30-4	
Hexachloropropene	ND	ug/L	10.0	3.2	1	10/26/12 15:30	10/30/12 17:44	1888-71-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	0.29	1	10/26/12 15:30	10/30/12 17:44	193-39-5	
Isodrin	ND	ug/L	20.0	5.7	1	10/26/12 15:30	10/30/12 17:44	465-73-6	
Isophorone	ND	ug/L	10.0	0.89	1	10/26/12 15:30	10/30/12 17:44	78-59-1	
Isosafrole	ND	ug/L	10.0	4.4	1	10/26/12 15:30	10/30/12 17:44	120-58-1	
Kepone	ND	ug/L	10.0	8.3	1	10/26/12 15:30	10/30/12 17:44	143-50-0	
Methapyrilene	ND	ug/L	50.0	5.8	1	10/26/12 15:30	10/30/12 17:44	91-80-5	
3-Methylcholanthrene	ND	ug/L	10.0	2.6	1	10/26/12 15:30	10/30/12 17:44	56-49-5	
4,4'-Methylene-bis(2-chloroani	ND	ug/L	50.0	12.0	1	10/26/12 15:30	10/30/12 17:44	101-14-4	
Methyl methanesulfonate	ND	ug/L	5.0	3.7	1	10/26/12 15:30	10/30/12 17:44	66-27-3	
1-Methylnaphthalene	ND	ug/L	10.0	0.32	1	10/26/12 15:30	10/30/12 17:44	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	0.28	1	10/26/12 15:30	10/30/12 17:44	91-57-6	
2-Methyl-5-nitroaniline	ND	ug/L	10.0	5.2	1	10/26/12 15:30	10/30/12 17:44	99-55-8	
Methyl parathion	ND	ug/L	10.0	4.9	1	10/26/12 15:30	10/30/12 17:44	298-00-0	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: SW-02 **Lab ID: 92136280009** Collected: 10/24/12 14:26 Received: 10/25/12 09:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.6	1	10/26/12 15:30	10/30/12 17:44	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	2.0	1	10/26/12 15:30	10/30/12 17:44		
1-Naphthalenamine	ND	ug/L	5.0	4.1	1	10/26/12 15:30	10/30/12 17:44	134-32-7	
2-Naphthalenamine	ND	ug/L	5.0	3.0	1	10/26/12 15:30	10/30/12 17:44	91-59-8	
Naphthalene	ND	ug/L	10.0	0.34	1	10/26/12 15:30	10/30/12 17:44	91-20-3	
1,4-Naphthoquinone	ND	ug/L	5.0	3.3	1	10/26/12 15:30	10/30/12 17:44	130-15-4	
2-Nitroaniline	ND	ug/L	50.0	2.0	1	10/26/12 15:30	10/30/12 17:44	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	2.0	1	10/26/12 15:30	10/30/12 17:44	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	2.1	1	10/26/12 15:30	10/30/12 17:44	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.1	1	10/26/12 15:30	10/30/12 17:44	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	0.91	1	10/26/12 15:30	10/30/12 17:44	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	4.1	1	10/26/12 15:30	10/30/12 17:44	100-02-7	
4-Nitroquinoline-n-oxide	ND	ug/L	50.0	13.0	1	10/26/12 15:30	10/30/12 17:44	56-57-5	
5-Nitro-o-toluidine	ND	ug/L	10.0	5.2	1	10/26/12 15:30	10/30/12 17:44	99-55-8	
N-Nitrosodiethylamine	ND	ug/L	20.0	5.6	1	10/26/12 15:30	10/30/12 17:44	55-18-5	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.91	1	10/26/12 15:30	10/30/12 17:44	62-75-9	
N-Nitroso-di-n-butylamine	ND	ug/L	10.0	7.5	1	10/26/12 15:30	10/30/12 17:44	924-16-3	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.99	1	10/26/12 15:30	10/30/12 17:44	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.0	1	10/26/12 15:30	10/30/12 17:44	86-30-6	
N-Nitrosomethylethylamine	ND	ug/L	10.0	4.7	1	10/26/12 15:30	10/30/12 17:44	10595-95-6	
N-Nitrosomorpholine	ND	ug/L	10.0	6.7	1	10/26/12 15:30	10/30/12 17:44	59-89-2	
N-Nitrosopiperidine	ND	ug/L	20.0	5.7	1	10/26/12 15:30	10/30/12 17:44	100-75-4	
N-Nitrosopyrrolidine	ND	ug/L	10.0	6.9	1	10/26/12 15:30	10/30/12 17:44	930-55-2	
n-Octadecane	ND	ug/L	10.0	0.84	1	10/26/12 15:30	10/30/12 17:44	593-45-3	
O,O,O-Triethylphosphorothioate	ND	ug/L	10.0	5.1	1	10/26/12 15:30	10/30/12 17:44	126-68-1	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	0.95	1	10/26/12 15:30	10/30/12 17:44	108-60-1	
Parathion (Ethyl parathion)	ND	ug/L	10.0	5.1	1	10/26/12 15:30	10/30/12 17:44	56-38-2	
Pentachlorobenzene	ND	ug/L	10.0	4.3	1	10/26/12 15:30	10/30/12 17:44	608-93-5	
Pentachloroethane	ND	ug/L	20.0	3.3	1	10/26/12 15:30	10/30/12 17:44	76-01-7	
Pentachloronitrobenzene	ND	ug/L	20.0	4.8	1	10/26/12 15:30	10/30/12 17:44	82-68-8	
Pentachlorophenol	ND	ug/L	25.0	4.6	1	10/26/12 15:30	10/30/12 17:44	87-86-5	
Phenacetin	ND	ug/L	20.0	4.8	1	10/26/12 15:30	10/30/12 17:44	62-44-2	
Phenanthrene	ND	ug/L	10.0	0.22	1	10/26/12 15:30	10/30/12 17:44	85-01-8	
Phenol	ND	ug/L	10.0	1.9	1	10/26/12 15:30	10/30/12 17:44	108-95-2	
p-Phenylenediamine	ND	ug/L	10.0	6.7	1	10/26/12 15:30	10/30/12 17:44	106-50-3	
Phorate	ND	ug/L	10.0	5.4	1	10/26/12 15:30	10/30/12 17:44	298-02-2	
Phthalic anhydride	ND	ug/L	75.0	5.9	1	10/26/12 15:30	10/30/12 17:44	85-44-9	
2-Picoline	ND	ug/L	10.0	4.3	1	10/26/12 15:30	10/30/12 17:44	109-06-8	
Pronamide	ND	ug/L	10.0	5.8	1	10/26/12 15:30	10/30/12 17:44	23950-58-5	
Pyrene	ND	ug/L	10.0	0.19	1	10/26/12 15:30	10/30/12 17:44	129-00-0	
Pyridine	ND	ug/L	10.0	1.6	1	10/26/12 15:30	10/30/12 17:44	110-86-1	
Safrole	ND	ug/L	10.0	5.7	1	10/26/12 15:30	10/30/12 17:44	94-59-7	
Sulfotepp (Thiodiphosphoric Ac	ND	ug/L	20.0	6.1	1	10/26/12 15:30	10/30/12 17:44	3689-24-5	
Terpineol	ND	ug/L	10.0	5.2	1	10/26/12 15:30	10/30/12 17:44	98-55-5	
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10.0	4.0	1	10/26/12 15:30	10/30/12 17:44	95-94-3	
2,3,4,6-Tetrachlorophenol	ND	ug/L	10.0	1.2	1	10/26/12 15:30	10/30/12 17:44	58-90-2	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: SW-02 **Lab ID: 92136280009** Collected: 10/24/12 14:26 Received: 10/25/12 09:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Thionazin	ND	ug/L	20.0	4.8	1	10/26/12 15:30	10/30/12 17:44	297-97-2	
2,6-Toluene diisocyanate	ND	ug/L	10.0	5.0	1	10/26/12 15:30	10/30/12 17:44	91-08-7	
O-Toluidine	ND	ug/L	10.0	5.7	1	10/26/12 15:30	10/30/12 17:44	95-53-4	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.98	1	10/26/12 15:30	10/30/12 17:44	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	0.92	1	10/26/12 15:30	10/30/12 17:44	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.3	1	10/26/12 15:30	10/30/12 17:44	88-06-2	
1,3,5-Trinitrobenzene	ND	ug/L	10.0	5.2	1	10/26/12 15:30	10/30/12 17:44	99-35-4	
Surrogates									
Nitrobenzene-d5 (S)	65	%	21-110		1	10/26/12 15:30	10/30/12 17:44	4165-60-0	
2-Fluorobiphenyl (S)	74	%	27-110		1	10/26/12 15:30	10/30/12 17:44	321-60-8	
Terphenyl-d14 (S)	104	%	31-107		1	10/26/12 15:30	10/30/12 17:44	1718-51-0	
Phenol-d6 (S)	19	%	10-110		1	10/26/12 15:30	10/30/12 17:44	13127-88-3	
2-Fluorophenol (S)	33	%	12-110		1	10/26/12 15:30	10/30/12 17:44	367-12-4	
2,4,6-Tribromophenol (S)	71	%	27-110		1	10/26/12 15:30	10/30/12 17:44	118-79-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		11/03/12 21:31	67-64-1	
Acetonitrile	ND	ug/L	50.0	2.2	1		11/03/12 21:31	75-05-8	
Acrolein	ND	ug/L	10.0	1.6	1		11/03/12 21:31	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1.9	1		11/03/12 21:31	107-13-1	
Allyl chloride	ND	ug/L	2.0	1.5	1		11/03/12 21:31	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		11/03/12 21:31	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		11/03/12 21:31	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		11/03/12 21:31	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		11/03/12 21:31	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		11/03/12 21:31	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		11/03/12 21:31	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		11/03/12 21:31	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		11/03/12 21:31	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		11/03/12 21:31	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		11/03/12 21:31	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		11/03/12 21:31	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		11/03/12 21:31	74-87-3	
Chloroprene	ND	ug/L	5.0	0.27	1		11/03/12 21:31	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		11/03/12 21:31	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		11/03/12 21:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		11/03/12 21:31	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		11/03/12 21:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		11/03/12 21:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		11/03/12 21:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		11/03/12 21:31	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		11/03/12 21:31	110-57-6	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		11/03/12 21:31	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		11/03/12 21:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		11/03/12 21:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		11/03/12 21:31	75-35-4	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: SW-02 **Lab ID: 92136280009** Collected: 10/24/12 14:26 Received: 10/25/12 09:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		11/03/12 21:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		11/03/12 21:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		11/03/12 21:31	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		11/03/12 21:31	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		11/03/12 21:31	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		11/03/12 21:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		11/03/12 21:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		11/03/12 21:31	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		11/03/12 21:31	100-41-4	
Ethyl methacrylate	ND	ug/L	1.0	0.20	1		11/03/12 21:31	97-63-2	
2-Hexanone	ND	ug/L	5.0	0.46	1		11/03/12 21:31	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		11/03/12 21:31	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		11/03/12 21:31	78-83-1	
Methacrylonitrile	ND	ug/L	10.0	0.93	1		11/03/12 21:31	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		11/03/12 21:31	75-09-2	
Methyl methacrylate	ND	ug/L	2.0	2.0	1		11/03/12 21:31	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		11/03/12 21:31	108-10-1	
Naphthalene	ND	ug/L	1.0	0.24	1		11/03/12 21:31	91-20-3	
Propionitrile	ND	ug/L	20.0	3.6	1		11/03/12 21:31	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		11/03/12 21:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		11/03/12 21:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		11/03/12 21:31	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		11/03/12 21:31	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		11/03/12 21:31	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		11/03/12 21:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		11/03/12 21:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		11/03/12 21:31	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		11/03/12 21:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		11/03/12 21:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		11/03/12 21:31	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		11/03/12 21:31	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		11/03/12 21:31	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		11/03/12 21:31	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		11/03/12 21:31	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		11/03/12 21:31	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		11/03/12 21:31	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		11/03/12 21:31	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		11/03/12 21:31	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		11/03/12 21:31	2037-26-5	
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		10/30/12 16:40	18496-25-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	ND	mg/L	0.0050	0.0050	1		11/02/12 15:49	57-12-5	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: Trip Blank **Lab ID: 92136280010** Collected: 10/23/12 00:00 Received: 10/25/12 09:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		11/03/12 21:49	67-64-1	
Acetonitrile	ND	ug/L	50.0	2.2	1		11/03/12 21:49	75-05-8	
Acrolein	ND	ug/L	10.0	1.6	1		11/03/12 21:49	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1.9	1		11/03/12 21:49	107-13-1	
Allyl chloride	ND	ug/L	2.0	1.5	1		11/03/12 21:49	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		11/03/12 21:49	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		11/03/12 21:49	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		11/03/12 21:49	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		11/03/12 21:49	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		11/03/12 21:49	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		11/03/12 21:49	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		11/03/12 21:49	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		11/03/12 21:49	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		11/03/12 21:49	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		11/03/12 21:49	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		11/03/12 21:49	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		11/03/12 21:49	74-87-3	
Chloroprene	ND	ug/L	5.0	0.27	1		11/03/12 21:49	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		11/03/12 21:49	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		11/03/12 21:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		11/03/12 21:49	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		11/03/12 21:49	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		11/03/12 21:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		11/03/12 21:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		11/03/12 21:49	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		11/03/12 21:49	110-57-6	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		11/03/12 21:49	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		11/03/12 21:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		11/03/12 21:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		11/03/12 21:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		11/03/12 21:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		11/03/12 21:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		11/03/12 21:49	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		11/03/12 21:49	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		11/03/12 21:49	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		11/03/12 21:49	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		11/03/12 21:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		11/03/12 21:49	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		11/03/12 21:49	100-41-4	
Ethyl methacrylate	ND	ug/L	1.0	0.20	1		11/03/12 21:49	97-63-2	
2-Hexanone	ND	ug/L	5.0	0.46	1		11/03/12 21:49	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		11/03/12 21:49	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		11/03/12 21:49	78-83-1	
Methacrylonitrile	ND	ug/L	10.0	0.93	1		11/03/12 21:49	126-98-7	
Methylene Chloride	**1.1**	ug/L	1.0	0.97	1		11/03/12 21:49	75-09-2	C9
Methyl methacrylate	ND	ug/L	2.0	2.0	1		11/03/12 21:49	80-62-6	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: Trip Blank **Lab ID: 92136280010** Collected: 10/23/12 00:00 Received: 10/25/12 09:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		11/03/12 21:49	108-10-1	
Naphthalene	ND	ug/L	1.0	0.24	1		11/03/12 21:49	91-20-3	
Propionitrile	ND	ug/L	20.0	3.6	1		11/03/12 21:49	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		11/03/12 21:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		11/03/12 21:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		11/03/12 21:49	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		11/03/12 21:49	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		11/03/12 21:49	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		11/03/12 21:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		11/03/12 21:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		11/03/12 21:49	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		11/03/12 21:49	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		11/03/12 21:49	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		11/03/12 21:49	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		11/03/12 21:49	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		11/03/12 21:49	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		11/03/12 21:49	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		11/03/12 21:49	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		11/03/12 21:49	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		11/03/12 21:49	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		11/03/12 21:49	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		11/03/12 21:49	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		11/03/12 21:49	2037-26-5	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-05R **Lab ID: 92136280011** Collected: 10/24/12 15:20 Received: 10/25/12 15:41 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	**<0.86**	ug/L	6.2	0.86	1		10/30/12 09:04	74-84-0	
Ethene	**<0.79**	ug/L	6.2	0.79	1		10/30/12 09:04	74-85-1	
Methane	**<3.3**	ug/L	6.6	3.3	1		10/30/12 09:04	74-82-8	
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3510								
PCB-1016 (Aroclor 1016)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 22:33	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 22:33	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 22:33	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 22:33	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 22:33	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 22:33	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.50	0.50	1	10/26/12 10:15	11/01/12 22:33	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	61	%	10-132		1	10/26/12 10:15	11/01/12 22:33	2051-24-3	
8151 Chlorinated Herbicides	Analytical Method: EPA 8151 Preparation Method: EPA 8151								
2,4-D	**<0.23**	ug/L	0.95	0.23	1	10/29/12 08:15	10/30/12 04:28	94-75-7	
Dinoseb	**<0.058**	ug/L	0.19	0.058	1	10/29/12 08:15	10/30/12 04:28	88-85-7	
Pentachlorophenol	**<0.017**	ug/L	0.029	0.017	1	10/29/12 08:15	10/30/12 04:28	87-86-5	
2,4,5-T	**<0.042**	ug/L	0.19	0.042	1	10/29/12 08:15	10/30/12 04:28	93-76-5	
2,4,5-TP (Silvex)	**<0.050**	ug/L	0.19	0.050	1	10/29/12 08:15	10/30/12 04:28	93-72-1	
Surrogates									
2,4-DCAA (S)	10	%	42-142		1	10/29/12 08:15	10/30/12 04:28	19719-28-9	S5
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	5.0	1	10/26/12 18:50	11/07/12 20:20	7440-36-0	
Arsenic	**6.6**	ug/L	5.0	5.0	1	10/26/12 18:50	11/07/12 20:20	7440-38-2	
Barium	**722**	ug/L	5.0	5.0	1	10/26/12 18:50	11/07/12 20:20	7440-39-3	
Beryllium	**2.9**	ug/L	1.0	1.0	1	10/26/12 18:50	11/07/12 20:20	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	10/26/12 18:50	11/07/12 20:20	7440-43-9	
Chromium	**68.3**	ug/L	5.0	5.0	1	10/26/12 18:50	11/07/12 20:20	7440-47-3	
Cobalt	**57.7**	ug/L	5.0	5.0	1	10/26/12 18:50	11/07/12 20:20	7440-48-4	
Copper	**112**	ug/L	5.0	5.0	1	10/26/12 18:50	11/07/12 20:20	7440-50-8	
Lead	**24.3**	ug/L	5.0	5.0	1	10/26/12 18:50	11/07/12 20:20	7439-92-1	
Nickel	**53.8**	ug/L	5.0	5.0	1	10/26/12 18:50	11/07/12 20:20	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	10/26/12 18:50	11/07/12 20:20	7782-49-2	
Silver	ND	ug/L	5.0	5.0	1	10/26/12 18:50	11/07/12 20:20	7440-22-4	
Thallium	ND	ug/L	5.4	5.4	1	10/26/12 18:50	11/07/12 20:20	7440-28-0	
Tin	ND	ug/L	5.0	5.0	1	10/26/12 18:50	11/07/12 20:20	7440-31-5	
Vanadium	**89.0**	ug/L	5.0	5.0	1	10/26/12 18:50	11/07/12 20:20	7440-62-2	
Zinc	**291**	ug/L	10.0	10.0	1	10/26/12 18:50	11/07/12 20:20	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Thallium	**0.16**	ug/L	0.10	0.019	1	10/31/12 17:45	11/08/12 17:20	7440-28-0	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-05R **Lab ID: 92136280011** Collected: 10/24/12 15:20 Received: 10/25/12 15:41 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	11/02/12 16:20	11/05/12 13:27	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270		Preparation Method: EPA 3510						
Acenaphthene	ND	ug/L	10.0	0.25	1	10/26/12 15:30	10/30/12 18:23	83-32-9	
Acenaphthylene	ND	ug/L	10.0	0.21	1	10/26/12 15:30	10/30/12 18:23	208-96-8	
Acetophenone	ND	ug/L	10.0	0.99	1	10/26/12 15:30	10/30/12 18:23	98-86-2	
2-Acetylaminofluorene	ND	ug/L	20.0	5.8	1	10/26/12 15:30	10/30/12 18:23	53-96-3	
4-Aminobiphenyl	ND	ug/L	10.0	5.2	1	10/26/12 15:30	10/30/12 18:23	92-67-1	
Aniline	ND	ug/L	10.0	2.0	1	10/26/12 15:30	10/30/12 18:23	62-53-3	
Anthracene	ND	ug/L	10.0	0.14	1	10/26/12 15:30	10/30/12 18:23	120-12-7	
Aramite	ND	ug/L	100	4.9	1	10/26/12 15:30	10/30/12 18:23	140-57-8	
Atrazine	ND	ug/L	20.0	6.5	1	10/26/12 15:30	10/30/12 18:23	1912-24-9	
Benzal chloride	ND	ug/L	50.0	3.9	1	10/26/12 15:30	10/30/12 18:23	98-87-3	
Benzaldehyde	ND	ug/L	20.0	12.0	1	10/26/12 15:30	10/30/12 18:23	100-52-7	
Benzidine	ND	ug/L	50.0	5.1	1	10/26/12 15:30	10/30/12 18:23	92-87-5	
Benzo(a)anthracene	ND	ug/L	10.0	0.33	1	10/26/12 15:30	10/30/12 18:23	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	0.30	1	10/26/12 15:30	10/30/12 18:23	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	0.28	1	10/26/12 15:30	10/30/12 18:23	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	0.38	1	10/26/12 15:30	10/30/12 18:23	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	0.43	1	10/26/12 15:30	10/30/12 18:23	207-08-9	
Benzoic Acid	ND	ug/L	50.0	11.5	1	10/26/12 15:30	10/30/12 18:23	65-85-0	
Benzophenone	ND	ug/L	10.0	4.9	1	10/26/12 15:30	10/30/12 18:23	119-61-9	
Benzyl alcohol	ND	ug/L	20.0	2.4	1	10/26/12 15:30	10/30/12 18:23	100-51-6	
Biphenyl (Diphenyl)	ND	ug/L	10.0	1.0	1	10/26/12 15:30	10/30/12 18:23	92-52-4	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.82	1	10/26/12 15:30	10/30/12 18:23	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	0.79	1	10/26/12 15:30	10/30/12 18:23	85-68-7	
Caprolactam	**1230**	ug/L	250	52.5	25	10/26/12 15:30	10/31/12 12:23	105-60-2	
Carbazole	ND	ug/L	10.0	0.54	1	10/26/12 15:30	10/30/12 18:23	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	20.0	3.7	1	10/26/12 15:30	10/30/12 18:23	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	10/26/12 15:30	10/30/12 18:23	106-47-8	
Chlorobenzilate	ND	ug/L	10.0	4.5	1	10/26/12 15:30	10/30/12 18:23	510-15-6	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.92	1	10/26/12 15:30	10/30/12 18:23	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.0	1	10/26/12 15:30	10/30/12 18:23	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	0.95	1	10/26/12 15:30	10/30/12 18:23	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.0	0.98	1	10/26/12 15:30	10/30/12 18:23	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.3	1	10/26/12 15:30	10/30/12 18:23	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.87	1	10/26/12 15:30	10/30/12 18:23	7005-72-3	
Chrysene	ND	ug/L	10.0	0.21	1	10/26/12 15:30	10/30/12 18:23	218-01-9	
n-Decane	ND	ug/L	10.0	0.91	1	10/26/12 15:30	10/30/12 18:23	124-18-5	
Diallate	ND	ug/L	10.0	5.4	1	10/26/12 15:30	10/30/12 18:23	2303-16-4	
Dibenz(a,h)anthracene	ND	ug/L	10.0	0.55	1	10/26/12 15:30	10/30/12 18:23	53-70-3	
Dibenzo(a,e)pyrene	ND	ug/L	50.0	3.4	1	10/26/12 15:30	10/30/12 18:23	192-65-4	
Dibenzofuran	ND	ug/L	10.0	0.89	1	10/26/12 15:30	10/30/12 18:23	132-64-9	
2,3-Dibromo-1-propanol phosph	ND	ug/L	75.0	8.0	1	10/26/12 15:30	10/30/12 18:23	126-72-7	
1,2-Dichlorobenzene	**17.8**	ug/L	10.0	0.88	1	10/26/12 15:30	10/30/12 18:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	0.81	1	10/26/12 15:30	10/30/12 18:23	541-73-1	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-05R **Lab ID: 92136280011** Collected: 10/24/12 15:20 Received: 10/25/12 15:41 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
1,4-Dichlorobenzene	**3.0J**	ug/L	10.0	0.95	1	10/26/12 15:30	10/30/12 18:23	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.1	1	10/26/12 15:30	10/30/12 18:23	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.7	1	10/26/12 15:30	10/30/12 18:23	120-83-2	
2,6-Dichlorophenol	ND	ug/L	10.0	5.7	1	10/26/12 15:30	10/30/12 18:23	87-65-0	
2,3-Dichloroaniline	ND	ug/L	10.0	3.2	1	10/26/12 15:30	10/30/12 18:23	99-09-2	
Diethylphthalate	ND	ug/L	10.0	0.58	1	10/26/12 15:30	10/30/12 18:23	84-66-2	
Dimethoate	ND	ug/L	10.0	4.9	1	10/26/12 15:30	10/30/12 18:23	60-51-5	
P-Dimethylaminoazobenzene	ND	ug/L	5.0	2.7	1	10/26/12 15:30	10/30/12 18:23	60-11-7	
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10.0	4.9	1	10/26/12 15:30	10/30/12 18:23	57-97-6	
3,3'-Dimethylbenzidine	ND	ug/L	10.0	9.6	1	10/26/12 15:30	10/30/12 18:23	119-93-7	
2,4-Dimethylphenol	ND	ug/L	10.0	1.2	1	10/26/12 15:30	10/30/12 18:23	105-67-9	
a,a-Dimethylphenylethylamine	ND	ug/L	50.0	8.4	1	10/26/12 15:30	10/30/12 18:23	122-09-8	
Dimethylphthalate	ND	ug/L	10.0	0.76	1	10/26/12 15:30	10/30/12 18:23	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	0.75	1	10/26/12 15:30	10/30/12 18:23	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	2.6	1	10/26/12 15:30	10/30/12 18:23	534-52-1	
1,3-Dinitrobenzene	ND	ug/L	20.0	5.1	1	10/26/12 15:30	10/30/12 18:23	99-65-0	
1,4-Dinitrobenzene	ND	ug/L	20.0	5.0	1	10/26/12 15:30	10/30/12 18:23	100-25-4	
2,4-Dinitrophenol	ND	ug/L	50.0	9.0	1	10/26/12 15:30	10/30/12 18:23	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.90	1	10/26/12 15:30	10/30/12 18:23	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	0.98	1	10/26/12 15:30	10/30/12 18:23	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	0.66	1	10/26/12 15:30	10/30/12 18:23	117-84-0	
Dinoseb	ND	ug/L	20.0	5.7	1	10/26/12 15:30	10/30/12 18:23	88-85-7	
Diphenylamine	ND	ug/L	10.0	1.0	1	10/26/12 15:30	10/30/12 18:23	122-39-4	
Diphenyl ether (Phenyl ether)	ND	ug/L	20.0	4.6	1	10/26/12 15:30	10/30/12 18:23	101-84-8	
1,2-Diphenylhydrazine	ND	ug/L	10.0	0.90	1	10/26/12 15:30	10/30/12 18:23	122-66-7	
Disulfoton	ND	ug/L	10.0	5.5	1	10/26/12 15:30	10/30/12 18:23	298-04-4	
bis(2-Ethylhexyl)phthalate	**2.1J**	ug/L	6.0	0.79	1	10/26/12 15:30	10/30/12 18:23	117-81-7	
Ethyl methanesulfonate	ND	ug/L	20.0	5.6	1	10/26/12 15:30	10/30/12 18:23	62-50-0	
Famphur	ND	ug/L	10.0	3.7	1	10/26/12 15:30	10/30/12 18:23	52-85-7	
Fluoranthene	ND	ug/L	10.0	0.21	1	10/26/12 15:30	10/30/12 18:23	206-44-0	
Fluorene	ND	ug/L	10.0	0.21	1	10/26/12 15:30	10/30/12 18:23	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.94	1	10/26/12 15:30	10/30/12 18:23	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	0.72	1	10/26/12 15:30	10/30/12 18:23	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	0.88	1	10/26/12 15:30	10/30/12 18:23	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.1	1	10/26/12 15:30	10/30/12 18:23	67-72-1	
Hexachlorophene	ND	ug/L	100	28.0	1	10/26/12 15:30	10/30/12 18:23	70-30-4	
Hexachloropropene	ND	ug/L	10.0	3.2	1	10/26/12 15:30	10/30/12 18:23	1888-71-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	0.29	1	10/26/12 15:30	10/30/12 18:23	193-39-5	
Isodrin	ND	ug/L	20.0	5.7	1	10/26/12 15:30	10/30/12 18:23	465-73-6	
Isophorone	ND	ug/L	10.0	0.89	1	10/26/12 15:30	10/30/12 18:23	78-59-1	
Isosafrole	ND	ug/L	10.0	4.4	1	10/26/12 15:30	10/30/12 18:23	120-58-1	
Kepone	ND	ug/L	10.0	8.3	1	10/26/12 15:30	10/30/12 18:23	143-50-0	
Methapyrilene	ND	ug/L	50.0	5.8	1	10/26/12 15:30	10/30/12 18:23	91-80-5	
3-Methylcholanthrene	ND	ug/L	10.0	2.6	1	10/26/12 15:30	10/30/12 18:23	56-49-5	
4,4'-Methylene-bis(2-chloroani	ND	ug/L	50.0	12.0	1	10/26/12 15:30	10/30/12 18:23	101-14-4	
Methyl methanesulfonate	ND	ug/L	5.0	3.7	1	10/26/12 15:30	10/30/12 18:23	66-27-3	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-05R **Lab ID: 92136280011** Collected: 10/24/12 15:20 Received: 10/25/12 15:41 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
1-Methylnaphthalene	ND	ug/L	10.0	0.32	1	10/26/12 15:30	10/30/12 18:23	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	0.28	1	10/26/12 15:30	10/30/12 18:23	91-57-6	
2-Methyl-5-nitroaniline	ND	ug/L	10.0	5.2	1	10/26/12 15:30	10/30/12 18:23	99-55-8	
Methyl parathion	ND	ug/L	10.0	4.9	1	10/26/12 15:30	10/30/12 18:23	298-00-0	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.6	1	10/26/12 15:30	10/30/12 18:23	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	2.0	1	10/26/12 15:30	10/30/12 18:23		
1-Naphthalenamine	ND	ug/L	5.0	4.1	1	10/26/12 15:30	10/30/12 18:23	134-32-7	
2-Naphthalenamine	ND	ug/L	5.0	3.0	1	10/26/12 15:30	10/30/12 18:23	91-59-8	
Naphthalene	ND	ug/L	10.0	0.34	1	10/26/12 15:30	10/30/12 18:23	91-20-3	
1,4-Naphthoquinone	ND	ug/L	5.0	3.3	1	10/26/12 15:30	10/30/12 18:23	130-15-4	
2-Nitroaniline	ND	ug/L	50.0	2.0	1	10/26/12 15:30	10/30/12 18:23	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	2.0	1	10/26/12 15:30	10/30/12 18:23	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	2.1	1	10/26/12 15:30	10/30/12 18:23	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.1	1	10/26/12 15:30	10/30/12 18:23	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	0.91	1	10/26/12 15:30	10/30/12 18:23	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	4.1	1	10/26/12 15:30	10/30/12 18:23	100-02-7	
4-Nitroquinoline-n-oxide	ND	ug/L	50.0	13.0	1	10/26/12 15:30	10/30/12 18:23	56-57-5	
5-Nitro-o-toluidine	ND	ug/L	10.0	5.2	1	10/26/12 15:30	10/30/12 18:23	99-55-8	
N-Nitrosodiethylamine	ND	ug/L	20.0	5.6	1	10/26/12 15:30	10/30/12 18:23	55-18-5	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.91	1	10/26/12 15:30	10/30/12 18:23	62-75-9	
N-Nitroso-di-n-butylamine	ND	ug/L	10.0	7.5	1	10/26/12 15:30	10/30/12 18:23	924-16-3	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.99	1	10/26/12 15:30	10/30/12 18:23	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.0	1	10/26/12 15:30	10/30/12 18:23	86-30-6	
N-Nitrosomethylethylamine	ND	ug/L	10.0	4.7	1	10/26/12 15:30	10/30/12 18:23	10595-95-6	
N-Nitrosomorpholine	ND	ug/L	10.0	6.7	1	10/26/12 15:30	10/30/12 18:23	59-89-2	
N-Nitrosopiperidine	ND	ug/L	20.0	5.7	1	10/26/12 15:30	10/30/12 18:23	100-75-4	
N-Nitrosopyrrolidine	ND	ug/L	10.0	6.9	1	10/26/12 15:30	10/30/12 18:23	930-55-2	
n-Octadecane	ND	ug/L	10.0	0.84	1	10/26/12 15:30	10/30/12 18:23	593-45-3	
O,O,O-Triethylphosphorothioate	ND	ug/L	10.0	5.1	1	10/26/12 15:30	10/30/12 18:23	126-68-1	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	0.95	1	10/26/12 15:30	10/30/12 18:23	108-60-1	
Parathion (Ethyl parathion)	ND	ug/L	10.0	5.1	1	10/26/12 15:30	10/30/12 18:23	56-38-2	
Pentachlorobenzene	ND	ug/L	10.0	4.3	1	10/26/12 15:30	10/30/12 18:23	608-93-5	
Pentachloroethane	ND	ug/L	20.0	3.3	1	10/26/12 15:30	10/30/12 18:23	76-01-7	
Pentachloronitrobenzene	ND	ug/L	20.0	4.8	1	10/26/12 15:30	10/30/12 18:23	82-68-8	
Pentachlorophenol	ND	ug/L	25.0	4.6	1	10/26/12 15:30	10/30/12 18:23	87-86-5	
Phenacetin	ND	ug/L	20.0	4.8	1	10/26/12 15:30	10/30/12 18:23	62-44-2	
Phenanthrene	ND	ug/L	10.0	0.22	1	10/26/12 15:30	10/30/12 18:23	85-01-8	
Phenol	ND	ug/L	10.0	1.9	1	10/26/12 15:30	10/30/12 18:23	108-95-2	
p-Phenylenediamine	ND	ug/L	10.0	6.7	1	10/26/12 15:30	10/30/12 18:23	106-50-3	
Phorate	ND	ug/L	10.0	5.4	1	10/26/12 15:30	10/30/12 18:23	298-02-2	
Phthalic anhydride	ND	ug/L	75.0	5.9	1	10/26/12 15:30	10/30/12 18:23	85-44-9	
2-Picoline	ND	ug/L	10.0	4.3	1	10/26/12 15:30	10/30/12 18:23	109-06-8	
Pronamide	ND	ug/L	10.0	5.8	1	10/26/12 15:30	10/30/12 18:23	23950-58-5	
Pyrene	ND	ug/L	10.0	0.19	1	10/26/12 15:30	10/30/12 18:23	129-00-0	
Pyridine	ND	ug/L	10.0	1.6	1	10/26/12 15:30	10/30/12 18:23	110-86-1	
Safrole	ND	ug/L	10.0	5.7	1	10/26/12 15:30	10/30/12 18:23	94-59-7	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-05R **Lab ID: 92136280011** Collected: 10/24/12 15:20 Received: 10/25/12 15:41 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Sulfotepp (Thiodiphosphoric Ac	ND	ug/L	20.0	6.1	1	10/26/12 15:30	10/30/12 18:23	3689-24-5	
Terpineol	ND	ug/L	10.0	5.2	1	10/26/12 15:30	10/30/12 18:23	98-55-5	
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10.0	4.0	1	10/26/12 15:30	10/30/12 18:23	95-94-3	
2,3,4,6-Tetrachlorophenol	ND	ug/L	10.0	1.2	1	10/26/12 15:30	10/30/12 18:23	58-90-2	
Thionazin	ND	ug/L	20.0	4.8	1	10/26/12 15:30	10/30/12 18:23	297-97-2	
2,6-Toluene diisocyanate	ND	ug/L	10.0	5.0	1	10/26/12 15:30	10/30/12 18:23	91-08-7	
O-Toluidine	ND	ug/L	10.0	5.7	1	10/26/12 15:30	10/30/12 18:23	95-53-4	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.98	1	10/26/12 15:30	10/30/12 18:23	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	0.92	1	10/26/12 15:30	10/30/12 18:23	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.3	1	10/26/12 15:30	10/30/12 18:23	88-06-2	
1,3,5-Trinitrobenzene	ND	ug/L	10.0	5.2	1	10/26/12 15:30	10/30/12 18:23	99-35-4	
Surrogates									
Nitrobenzene-d5 (S)	55	%	21-110		1	10/26/12 15:30	10/30/12 18:23	4165-60-0	
2-Fluorobiphenyl (S)	60	%	27-110		1	10/26/12 15:30	10/30/12 18:23	321-60-8	
Terphenyl-d14 (S)	87	%	31-107		1	10/26/12 15:30	10/30/12 18:23	1718-51-0	
Phenol-d6 (S)	18	%	10-110		1	10/26/12 15:30	10/30/12 18:23	13127-88-3	
2-Fluorophenol (S)	26	%	12-110		1	10/26/12 15:30	10/30/12 18:23	367-12-4	
2,4,6-Tribromophenol (S)	85	%	27-110		1	10/26/12 15:30	10/30/12 18:23	118-79-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		11/03/12 22:08	67-64-1	
Acetonitrile	ND	ug/L	50.0	2.2	1		11/03/12 22:08	75-05-8	
Acrolein	ND	ug/L	10.0	1.6	1		11/03/12 22:08	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1.9	1		11/03/12 22:08	107-13-1	
Allyl chloride	ND	ug/L	2.0	1.5	1		11/03/12 22:08	107-05-1	
Benzene	**1.3**	ug/L	1.0	0.25	1		11/03/12 22:08	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		11/03/12 22:08	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		11/03/12 22:08	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		11/03/12 22:08	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		11/03/12 22:08	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		11/03/12 22:08	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		11/03/12 22:08	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		11/03/12 22:08	56-23-5	
Chlorobenzene	**4.0**	ug/L	1.0	0.23	1		11/03/12 22:08	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		11/03/12 22:08	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		11/03/12 22:08	67-66-3	
Chloromethane	**0.14J**	ug/L	1.0	0.11	1		11/03/12 22:08	74-87-3	
Chloroprene	ND	ug/L	5.0	0.27	1		11/03/12 22:08	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		11/03/12 22:08	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		11/03/12 22:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		11/03/12 22:08	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		11/03/12 22:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		11/03/12 22:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		11/03/12 22:08	541-73-1	
1,4-Dichlorobenzene	**3.5**	ug/L	1.0	0.33	1		11/03/12 22:08	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		11/03/12 22:08	110-57-6	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-05R **Lab ID: 92136280011** Collected: 10/24/12 15:20 Received: 10/25/12 15:41 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Dichlorodifluoromethane	**0.57J**	ug/L	1.0	0.21	1		11/03/12 22:08	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		11/03/12 22:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		11/03/12 22:08	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		11/03/12 22:08	75-35-4	
cis-1,2-Dichloroethene	**11.2**	ug/L	1.0	0.19	1		11/03/12 22:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		11/03/12 22:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		11/03/12 22:08	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		11/03/12 22:08	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		11/03/12 22:08	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		11/03/12 22:08	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		11/03/12 22:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		11/03/12 22:08	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		11/03/12 22:08	100-41-4	
Ethyl methacrylate	ND	ug/L	1.0	0.20	1		11/03/12 22:08	97-63-2	
2-Hexanone	ND	ug/L	5.0	0.46	1		11/03/12 22:08	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		11/03/12 22:08	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		11/03/12 22:08	78-83-1	
Methacrylonitrile	ND	ug/L	10.0	0.93	1		11/03/12 22:08	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		11/03/12 22:08	75-09-2	
Methyl methacrylate	ND	ug/L	2.0	2.0	1		11/03/12 22:08	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		11/03/12 22:08	108-10-1	
Naphthalene	ND	ug/L	1.0	0.24	1		11/03/12 22:08	91-20-3	
Propionitrile	ND	ug/L	20.0	3.6	1		11/03/12 22:08	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		11/03/12 22:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		11/03/12 22:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		11/03/12 22:08	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		11/03/12 22:08	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		11/03/12 22:08	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		11/03/12 22:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		11/03/12 22:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		11/03/12 22:08	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		11/03/12 22:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		11/03/12 22:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		11/03/12 22:08	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		11/03/12 22:08	108-05-4	
Vinyl chloride	**0.62J**	ug/L	1.0	0.62	1		11/03/12 22:08	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		11/03/12 22:08	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		11/03/12 22:08	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		11/03/12 22:08	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		11/03/12 22:08	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		11/03/12 22:08	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		11/03/12 22:08	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		11/03/12 22:08	2037-26-5	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: MW-05R **Lab ID: 92136280011** Collected: 10/24/12 15:20 Received: 10/25/12 15:41 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**308**	mg/L	5.0	1.0	1		11/02/12 20:33		
Iron, Ferrous	Analytical Method: SM 3500-Fe D#4								
Iron, Ferrous	ND	mg/L	0.50	0.50	1		10/31/12 09:31		N2
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		10/30/12 16:40	18496-25-8	
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	**4.9**	mg/L	2.0	2.0	1	10/26/12 00:45	10/30/12 21:10		B2,B4
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**2.7**	mg/L	2.0	2.0	1		11/07/12 23:00	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.020	0.020	1		10/25/12 23:56		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**76.0**	mg/L	5.0	5.0	5		11/08/12 19:41	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	ND	mg/L	0.0050	0.0050	1		11/02/12 15:58	57-12-5	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	**68.0**	mg/L	25.0	25.0	1		11/09/12 14:45		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**27.2**	mg/L	5.0	5.0	5		11/08/12 10:32	7440-44-0	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: DW-01 **Lab ID: 92136280012** Collected: 10/25/12 12:11 Received: 10/25/12 15:41 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2								
Benzene	ND	ug/L	0.50	0.25	1		10/29/12 20:27	71-43-2	
Carbon tetrachloride	ND	ug/L	0.50	0.25	1		10/29/12 20:27	56-23-5	
Chlorobenzene	ND	ug/L	0.50	0.25	1		10/29/12 20:27	108-90-7	
1,2-Dichlorobenzene	ND	ug/L	0.50	0.25	1		10/29/12 20:27	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	0.25	1		10/29/12 20:27	106-46-7	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		10/29/12 20:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	0.25	1		10/29/12 20:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.25	1		10/29/12 20:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.25	1		10/29/12 20:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	0.25	1		10/29/12 20:27	78-87-5	
Ethylbenzene	ND	ug/L	0.50	0.25	1		10/29/12 20:27	100-41-4	
Methylene Chloride	ND	ug/L	0.50	0.44	1		10/29/12 20:27	75-09-2	
Styrene	ND	ug/L	0.50	0.25	1		10/29/12 20:27	100-42-5	
Tetrachloroethene	ND	ug/L	0.50	0.25	1		10/29/12 20:27	127-18-4	
Toluene	ND	ug/L	0.50	0.25	1		10/29/12 20:27	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.25	1		10/29/12 20:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	0.25	1		10/29/12 20:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	0.25	1		10/29/12 20:27	79-00-5	
Trichloroethene	ND	ug/L	0.50	0.25	1		10/29/12 20:27	79-01-6	
Vinyl chloride	ND	ug/L	0.50	0.25	1		10/29/12 20:27	75-01-4	
Xylene (Total)	ND	ug/L	0.50	0.25	1		10/29/12 20:27	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		10/29/12 20:27	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		1		10/29/12 20:27	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		10/29/12 20:27	2037-26-5	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		10/29/12 20:27	17060-07-0	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: DW-02 **Lab ID: 92136280013** Collected: 10/25/12 11:47 Received: 10/25/12 15:41 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2								
Benzene	ND	ug/L	0.50	0.25	1		10/29/12 20:54	71-43-2	
Carbon tetrachloride	ND	ug/L	0.50	0.25	1		10/29/12 20:54	56-23-5	
Chlorobenzene	ND	ug/L	0.50	0.25	1		10/29/12 20:54	108-90-7	
1,2-Dichlorobenzene	ND	ug/L	0.50	0.25	1		10/29/12 20:54	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	0.25	1		10/29/12 20:54	106-46-7	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		10/29/12 20:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	0.25	1		10/29/12 20:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.25	1		10/29/12 20:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.25	1		10/29/12 20:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	0.25	1		10/29/12 20:54	78-87-5	
Ethylbenzene	ND	ug/L	0.50	0.25	1		10/29/12 20:54	100-41-4	
Methylene Chloride	ND	ug/L	0.50	0.44	1		10/29/12 20:54	75-09-2	
Styrene	ND	ug/L	0.50	0.25	1		10/29/12 20:54	100-42-5	
Tetrachloroethene	ND	ug/L	0.50	0.25	1		10/29/12 20:54	127-18-4	
Toluene	ND	ug/L	0.50	0.25	1		10/29/12 20:54	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.25	1		10/29/12 20:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	0.25	1		10/29/12 20:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	0.25	1		10/29/12 20:54	79-00-5	
Trichloroethene	ND	ug/L	0.50	0.25	1		10/29/12 20:54	79-01-6	
Vinyl chloride	ND	ug/L	0.50	0.25	1		10/29/12 20:54	75-01-4	
Xylene (Total)	ND	ug/L	0.50	0.25	1		10/29/12 20:54	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		10/29/12 20:54	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		10/29/12 20:54	1868-53-7	
Toluene-d8 (S)	107	%	70-130		1		10/29/12 20:54	2037-26-5	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		10/29/12 20:54	17060-07-0	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: LT-01 **Lab ID: 92136280014** Collected: 10/25/12 10:56 Received: 10/25/12 15:41 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	**29.2**	ug/L	25.0	10.0	1		11/03/12 22:26	67-64-1	
Acetonitrile	ND	ug/L	50.0	2.2	1		11/03/12 22:26	75-05-8	
Acrolein	ND	ug/L	10.0	1.6	1		11/03/12 22:26	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1.9	1		11/03/12 22:26	107-13-1	
Allyl chloride	ND	ug/L	2.0	1.5	1		11/03/12 22:26	107-05-1	
Benzene	**2.1**	ug/L	1.0	0.25	1		11/03/12 22:26	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		11/03/12 22:26	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		11/03/12 22:26	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		11/03/12 22:26	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		11/03/12 22:26	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		11/03/12 22:26	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		11/03/12 22:26	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		11/03/12 22:26	56-23-5	
Chlorobenzene	**2.9**	ug/L	1.0	0.23	1		11/03/12 22:26	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		11/03/12 22:26	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		11/03/12 22:26	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		11/03/12 22:26	74-87-3	
Chloroprene	ND	ug/L	5.0	0.27	1		11/03/12 22:26	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		11/03/12 22:26	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		11/03/12 22:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		11/03/12 22:26	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		11/03/12 22:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		11/03/12 22:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		11/03/12 22:26	541-73-1	
1,4-Dichlorobenzene	**3.4**	ug/L	1.0	0.33	1		11/03/12 22:26	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		11/03/12 22:26	110-57-6	
Dichlorodifluoromethane	**0.93J**	ug/L	1.0	0.21	1		11/03/12 22:26	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		11/03/12 22:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		11/03/12 22:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		11/03/12 22:26	75-35-4	
cis-1,2-Dichloroethene	**0.63J**	ug/L	1.0	0.19	1		11/03/12 22:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		11/03/12 22:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		11/03/12 22:26	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		11/03/12 22:26	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		11/03/12 22:26	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		11/03/12 22:26	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		11/03/12 22:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		11/03/12 22:26	10061-02-6	
Ethylbenzene	**10.2**	ug/L	1.0	0.30	1		11/03/12 22:26	100-41-4	
Ethyl methacrylate	ND	ug/L	1.0	0.20	1		11/03/12 22:26	97-63-2	
2-Hexanone	ND	ug/L	5.0	0.46	1		11/03/12 22:26	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		11/03/12 22:26	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		11/03/12 22:26	78-83-1	
Methacrylonitrile	ND	ug/L	10.0	0.93	1		11/03/12 22:26	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		11/03/12 22:26	75-09-2	
Methyl methacrylate	ND	ug/L	2.0	2.0	1		11/03/12 22:26	80-62-6	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: LT-01 **Lab ID: 92136280014** Collected: 10/25/12 10:56 Received: 10/25/12 15:41 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
4-Methyl-2-pentanone (MIBK)	**2.1J**	ug/L	5.0	0.33	1		11/03/12 22:26	108-10-1	
Naphthalene	**6.9**	ug/L	1.0	0.24	1		11/03/12 22:26	91-20-3	
Propionitrile	ND	ug/L	20.0	3.6	1		11/03/12 22:26	107-12-0	
Styrene	**0.33J**	ug/L	1.0	0.26	1		11/03/12 22:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		11/03/12 22:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		11/03/12 22:26	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		11/03/12 22:26	127-18-4	
Toluene	**3.0**	ug/L	1.0	0.26	1		11/03/12 22:26	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		11/03/12 22:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		11/03/12 22:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		11/03/12 22:26	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		11/03/12 22:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		11/03/12 22:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		11/03/12 22:26	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		11/03/12 22:26	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		11/03/12 22:26	75-01-4	
Xylene (Total)	**9.4**	ug/L	2.0	0.66	1		11/03/12 22:26	1330-20-7	
m&p-Xylene	**4.6**	ug/L	2.0	0.66	1		11/03/12 22:26	179601-23-1	
o-Xylene	**4.7**	ug/L	1.0	0.23	1		11/03/12 22:26	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		11/03/12 22:26	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		11/03/12 22:26	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		11/03/12 22:26	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		11/03/12 22:26	2037-26-5	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: TRIP BLANK **Lab ID: 92136280015** Collected: 10/25/12 00:00 Received: 10/25/12 15:41 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		11/03/12 22:45	67-64-1	
Acetonitrile	ND	ug/L	50.0	2.2	1		11/03/12 22:45	75-05-8	
Acrolein	ND	ug/L	10.0	1.6	1		11/03/12 22:45	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1.9	1		11/03/12 22:45	107-13-1	
Allyl chloride	ND	ug/L	2.0	1.5	1		11/03/12 22:45	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		11/03/12 22:45	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		11/03/12 22:45	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		11/03/12 22:45	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		11/03/12 22:45	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		11/03/12 22:45	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		11/03/12 22:45	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		11/03/12 22:45	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		11/03/12 22:45	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		11/03/12 22:45	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		11/03/12 22:45	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		11/03/12 22:45	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		11/03/12 22:45	74-87-3	
Chloroprene	ND	ug/L	5.0	0.27	1		11/03/12 22:45	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		11/03/12 22:45	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		11/03/12 22:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		11/03/12 22:45	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		11/03/12 22:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		11/03/12 22:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		11/03/12 22:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		11/03/12 22:45	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		11/03/12 22:45	110-57-6	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		11/03/12 22:45	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		11/03/12 22:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		11/03/12 22:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		11/03/12 22:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		11/03/12 22:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		11/03/12 22:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		11/03/12 22:45	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		11/03/12 22:45	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		11/03/12 22:45	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		11/03/12 22:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		11/03/12 22:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		11/03/12 22:45	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		11/03/12 22:45	100-41-4	
Ethyl methacrylate	ND	ug/L	1.0	0.20	1		11/03/12 22:45	97-63-2	
2-Hexanone	ND	ug/L	5.0	0.46	1		11/03/12 22:45	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		11/03/12 22:45	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		11/03/12 22:45	78-83-1	
Methacrylonitrile	ND	ug/L	10.0	0.93	1		11/03/12 22:45	126-98-7	
Methylene Chloride	**1.2**	ug/L	1.0	0.97	1		11/03/12 22:45	75-09-2	C9
Methyl methacrylate	ND	ug/L	2.0	2.0	1		11/03/12 22:45	80-62-6	

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ANALYTICAL RESULTS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Sample: TRIP BLANK **Lab ID: 92136280015** Collected: 10/25/12 00:00 Received: 10/25/12 15:41 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		11/03/12 22:45	108-10-1	
Naphthalene	ND	ug/L	1.0	0.24	1		11/03/12 22:45	91-20-3	
Propionitrile	ND	ug/L	20.0	3.6	1		11/03/12 22:45	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		11/03/12 22:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		11/03/12 22:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		11/03/12 22:45	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		11/03/12 22:45	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		11/03/12 22:45	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		11/03/12 22:45	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		11/03/12 22:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		11/03/12 22:45	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		11/03/12 22:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		11/03/12 22:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		11/03/12 22:45	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		11/03/12 22:45	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		11/03/12 22:45	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		11/03/12 22:45	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		11/03/12 22:45	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		11/03/12 22:45	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		11/03/12 22:45	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		11/03/12 22:45	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		11/03/12 22:45	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		11/03/12 22:45	2037-26-5	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

QC Batch: AIR/16036
Analysis Method: RSK 175
QC Batch Method: RSK 175
Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 92136280001, 92136280002

METHOD BLANK: 1318996
Matrix: Water
Associated Lab Samples: 92136280001, 92136280002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	6.2	10/25/12 17:09	
Ethene	ug/L	ND	6.2	10/25/12 17:09	
Methane	ug/L	ND	6.6	10/25/12 17:09	

LABORATORY CONTROL SAMPLE & LCSD: 1318997 1318998

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	114	104	104	91	91	70-130	.3	30	
Ethene	ug/L	106	96.7	97.1	91	92	70-130	.4	30	
Methane	ug/L	60.7	55.9	56.1	92	93	70-130	.4	30	

SAMPLE DUPLICATE: 1319799

Parameter	Units	92136280001 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	ND		30	
Ethene	ug/L	ND	ND		30	
Methane	ug/L	21.1	22.2	5	30	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

QC Batch: AIR/16058 Analysis Method: RSK 175
QC Batch Method: RSK 175 Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 92136280004, 92136280005, 92136280006, 92136280007, 92136280011

METHOD BLANK: 1321749 Matrix: Water
Associated Lab Samples: 92136280004, 92136280005, 92136280006, 92136280007, 92136280011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	<0.86	6.2	10/30/12 07:28	
Ethene	ug/L	<0.79	6.2	10/30/12 07:28	
Methane	ug/L	<3.3	6.6	10/30/12 07:28	

LABORATORY CONTROL SAMPLE & LCSD: 1321750 1321751

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	114	103	106	90	94	70-130	3	30	
Ethene	ug/L	106	96.2	99.3	91	94	70-130	3	30	
Methane	ug/L	60.7	56.9	58.0	94	96	70-130	2	30	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1322544 1322545

Parameter	Units	60131809005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Ethane	ug/L	<0.86	108	103	105	104	97	100	30-150	2	30	
Ethene	ug/L	<0.79	101	96.4	97.8	96.2	97	100	30-150	2	30	
Methane	ug/L	51.1	57.8	55.1	118	121	115	127	30-150	3	30	

SAMPLE DUPLICATE: 1322550

Parameter	Units	92136280011 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	<0.86	<0.86		30	
Ethene	ug/L	<0.79	<0.79		30	
Methane	ug/L	<3.3	<3.3		30	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

QC Batch: MERP/4646 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 92136280001, 92136280002, 92136280004, 92136280005, 92136280006, 92136280007, 92136280008, 92136280009, 92136280011

METHOD BLANK: 865435 Matrix: Water
Associated Lab Samples: 92136280001, 92136280002, 92136280004, 92136280005, 92136280006, 92136280007, 92136280008, 92136280009, 92136280011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	11/05/12 12:21	

LABORATORY CONTROL SAMPLE: 865436

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.5	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 865437 865438

Parameter	Units	92135946002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.5	2.5	97	97	75-125	1	25	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

QC Batch: MPRP/11811
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92136280001, 92136280002

METHOD BLANK: 860125
Matrix: Water
Associated Lab Samples: 92136280001, 92136280002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	10/31/12 03:18	
Arsenic	ug/L	ND	5.0	10/31/12 03:18	
Barium	ug/L	ND	5.0	10/31/12 03:18	
Beryllium	ug/L	ND	1.0	10/31/12 03:18	
Cadmium	ug/L	ND	1.0	10/31/12 03:18	
Chromium	ug/L	ND	5.0	10/31/12 03:18	
Cobalt	ug/L	ND	5.0	10/31/12 03:18	
Copper	ug/L	ND	5.0	10/31/12 03:18	
Lead	ug/L	ND	5.0	10/31/12 03:18	
Nickel	ug/L	ND	5.0	10/31/12 03:18	
Selenium	ug/L	ND	10.0	10/31/12 03:18	
Silver	ug/L	ND	5.0	10/31/12 03:18	
Thallium	ug/L	ND	5.4	10/31/12 03:18	
Tin	ug/L	ND	5.0	10/31/12 03:18	
Vanadium	ug/L	ND	5.0	10/31/12 03:18	
Zinc	ug/L	ND	10.0	10/31/12 03:18	

LABORATORY CONTROL SAMPLE: 860126

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	504	101	80-120	
Arsenic	ug/L	500	506	101	80-120	
Barium	ug/L	500	487	97	80-120	
Beryllium	ug/L	500	513	103	80-120	
Cadmium	ug/L	500	514	103	80-120	
Chromium	ug/L	500	527	105	80-120	
Cobalt	ug/L	500	508	102	80-120	
Copper	ug/L	500	505	101	80-120	
Lead	ug/L	500	491	98	80-120	
Nickel	ug/L	500	503	101	80-120	
Selenium	ug/L	500	493	99	80-120	
Silver	ug/L	250	255	102	80-120	
Thallium	ug/L	500	478	96	80-120	
Tin	ug/L	500	520	104	80-120	
Vanadium	ug/L	500	509	102	80-120	
Zinc	ug/L	500	510	102	80-120	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

MATRIX SPIKE SAMPLE: 860341

Parameter	Units	92136248002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	524	105	75-125	
Arsenic	ug/L	10.8	500	545	107	75-125	
Barium	ug/L	168	500	648	96	75-125	
Beryllium	ug/L	ND	500	516	103	75-125	
Cadmium	ug/L	ND	500	503	101	75-125	
Chromium	ug/L	ND	500	522	104	75-125	
Cobalt	ug/L	ND	500	501	99	75-125	
Copper	ug/L	ND	500	525	105	75-125	
Lead	ug/L	ND	500	479	96	75-125	
Nickel	ug/L	ND	500	489	98	75-125	
Selenium	ug/L	ND	500	510	102	75-125	
Silver	ug/L	ND	250	262	104	75-125	
Thallium	ug/L	ND	500	462	92	75-125	
Tin	ug/L	ND	500	526	105	75-125	
Vanadium	ug/L	ND	500	517	103	75-125	
Zinc	ug/L	ND	500	510	102	75-125	

SAMPLE DUPLICATE: 860342

Parameter	Units	92136248003 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND		25	
Arsenic	ug/L	ND	ND		25	
Barium	ug/L	ND	ND		25	
Beryllium	ug/L	ND	ND		25	
Cadmium	ug/L	ND	ND		25	
Chromium	ug/L	ND	ND		25	
Cobalt	ug/L	ND	ND		25	
Copper	ug/L	ND	ND		25	
Lead	ug/L	ND	ND		25	
Nickel	ug/L	ND	ND		25	
Selenium	ug/L	ND	ND		25	
Silver	ug/L	ND	ND		25	
Thallium	ug/L	ND	ND		25	
Tin	ug/L	ND	ND		25	
Vanadium	ug/L	ND	ND		25	
Zinc	ug/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

QC Batch: MPRP/11813 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92136280004, 92136280005, 92136280008

METHOD BLANK: 860134 Matrix: Water
Associated Lab Samples: 92136280004, 92136280005, 92136280008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	11/01/12 00:04	
Arsenic	ug/L	ND	5.0	11/01/12 00:04	
Barium	ug/L	ND	5.0	11/01/12 00:04	
Beryllium	ug/L	ND	1.0	11/01/12 00:04	
Cadmium	ug/L	ND	1.0	11/01/12 00:04	
Chromium	ug/L	ND	5.0	11/01/12 00:04	
Cobalt	ug/L	ND	5.0	11/01/12 00:04	
Copper	ug/L	ND	5.0	11/01/12 00:04	
Lead	ug/L	ND	5.0	11/01/12 00:04	
Nickel	ug/L	ND	5.0	11/01/12 00:04	
Selenium	ug/L	ND	10.0	11/01/12 00:04	
Silver	ug/L	ND	5.0	11/01/12 00:04	
Thallium	ug/L	ND	5.4	11/01/12 00:04	
Tin	ug/L	ND	5.0	11/01/12 00:04	
Vanadium	ug/L	ND	5.0	11/01/12 00:04	
Zinc	ug/L	ND	10.0	11/01/12 00:04	

LABORATORY CONTROL SAMPLE: 860135

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	512	102	80-120	
Arsenic	ug/L	500	508	102	80-120	
Barium	ug/L	500	506	101	80-120	
Beryllium	ug/L	500	510	102	80-120	
Cadmium	ug/L	500	509	102	80-120	
Chromium	ug/L	500	518	104	80-120	
Cobalt	ug/L	500	502	100	80-120	
Copper	ug/L	500	514	103	80-120	
Lead	ug/L	500	503	101	80-120	
Nickel	ug/L	500	511	102	80-120	
Selenium	ug/L	500	507	101	80-120	
Silver	ug/L	250	254	102	80-120	
Thallium	ug/L	500	483	97	80-120	
Tin	ug/L	500	517	103	80-120	
Vanadium	ug/L	500	514	103	80-120	
Zinc	ug/L	500	511	102	80-120	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

MATRIX SPIKE SAMPLE: 860357

Parameter	Units	92136195016 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	515	103	75-125	
Arsenic	ug/L	ND	500	506	101	75-125	
Barium	ug/L	172	500	672	100	75-125	
Beryllium	ug/L	ND	500	507	101	75-125	
Cadmium	ug/L	ND	500	498	100	75-125	
Chromium	ug/L	ND	500	511	102	75-125	
Cobalt	ug/L	ND	500	495	99	75-125	
Copper	ug/L	ND	500	515	103	75-125	
Lead	ug/L	ND	500	491	98	75-125	
Nickel	ug/L	ND	500	501	100	75-125	
Selenium	ug/L	ND	500	500	100	75-125	
Silver	ug/L	ND	250	252	101	75-125	
Thallium	ug/L	ND	500	466	93	75-125	
Tin	ug/L	ND	500	511	102	75-125	
Vanadium	ug/L	ND	500	514	102	75-125	
Zinc	ug/L	ND	500	507	100	75-125	

SAMPLE DUPLICATE: 860358

Parameter	Units	92136195017 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND		25	
Arsenic	ug/L	ND	ND		25	
Barium	ug/L	175	177	1	25	
Beryllium	ug/L	ND	ND		25	
Cadmium	ug/L	ND	ND		25	
Chromium	ug/L	ND	ND		25	
Cobalt	ug/L	ND	ND		25	
Copper	ug/L	ND	ND		25	
Lead	ug/L	ND	ND		25	
Nickel	ug/L	ND	7.9		25	
Selenium	ug/L	ND	ND		25	
Silver	ug/L	ND	ND		25	
Thallium	ug/L	ND	ND		25	
Tin	ug/L	ND	ND		25	
Vanadium	ug/L	ND	ND		25	
Zinc	ug/L	28.5	30.0	5	25	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

QC Batch: MPRP/11830
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92136280011

METHOD BLANK: 861308
Matrix: Water
Associated Lab Samples: 92136280011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	11/07/12 19:54	
Arsenic	ug/L	ND	5.0	11/07/12 19:54	
Barium	ug/L	ND	5.0	11/07/12 19:54	
Beryllium	ug/L	ND	1.0	11/07/12 19:54	
Cadmium	ug/L	ND	1.0	11/07/12 19:54	
Chromium	ug/L	ND	5.0	11/07/12 19:54	
Cobalt	ug/L	ND	5.0	11/07/12 19:54	
Copper	ug/L	ND	5.0	11/07/12 19:54	
Lead	ug/L	ND	5.0	11/07/12 19:54	
Nickel	ug/L	ND	5.0	11/07/12 19:54	
Selenium	ug/L	ND	10.0	11/07/12 19:54	
Silver	ug/L	ND	5.0	11/07/12 19:54	
Thallium	ug/L	ND	5.4	11/07/12 19:54	
Tin	ug/L	ND	5.0	11/07/12 19:54	
Vanadium	ug/L	ND	5.0	11/07/12 19:54	
Zinc	ug/L	ND	10.0	11/07/12 19:54	

LABORATORY CONTROL SAMPLE: 861309

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	505	101	80-120	
Arsenic	ug/L	500	497	99	80-120	
Barium	ug/L	500	496	99	80-120	
Beryllium	ug/L	500	519	104	80-120	
Cadmium	ug/L	500	505	101	80-120	
Chromium	ug/L	500	502	100	80-120	
Cobalt	ug/L	500	495	99	80-120	
Copper	ug/L	500	497	99	80-120	
Lead	ug/L	500	505	101	80-120	
Nickel	ug/L	500	493	99	80-120	
Selenium	ug/L	500	506	101	80-120	
Silver	ug/L	250	255	102	80-120	
Thallium	ug/L	500	493	99	80-120	
Tin	ug/L	500	495	99	80-120	
Vanadium	ug/L	500	496	99	80-120	
Zinc	ug/L	500	501	100	80-120	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

MATRIX SPIKE SAMPLE: 861310

Parameter	Units	92136379006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	512	102	75-125	
Arsenic	ug/L	ND	500	506	101	75-125	
Barium	ug/L	41.7J	500	540	100	75-125	
Beryllium	ug/L	ND	500	523	105	75-125	
Cadmium	ug/L	ND	500	507	101	75-125	
Chromium	ug/L	ND	500	509	102	75-125	
Cobalt	ug/L	ND	500	502	99	75-125	
Copper	ug/L	ND	500	511	101	75-125	
Lead	ug/L	ND	500	504	100	75-125	
Nickel	ug/L	ND	500	494	99	75-125	
Selenium	ug/L	ND	500	506	101	75-125	
Silver	ug/L	ND	250	257	103	75-125	
Thallium	ug/L	ND	500	491	98	75-125	
Tin	ug/L	ND	500	499	100	75-125	
Vanadium	ug/L	ND	500	508	101	75-125	
Zinc	ug/L	16.4	500	520	101	75-125	

SAMPLE DUPLICATE: 861311

Parameter	Units	92136379007 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND		25	
Arsenic	ug/L	ND	ND		25	
Barium	ug/L	18.5J	18.2	2	25	
Beryllium	ug/L	ND	ND		25	
Cadmium	ug/L	ND	ND		25	
Chromium	ug/L	ND	ND		25	
Cobalt	ug/L	ND	ND		25	
Copper	ug/L	ND	ND		25	
Lead	ug/L	ND	ND		25	
Nickel	ug/L	ND	ND		25	
Selenium	ug/L	ND	ND		25	
Silver	ug/L	ND	ND		25	
Thallium	ug/L	ND	ND		25	
Tin	ug/L	ND	ND		25	
Vanadium	ug/L	ND	ND		25	
Zinc	ug/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

QC Batch: MPRP/11887 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92136280006, 92136280007, 92136280009

METHOD BLANK: 865045 Matrix: Water
Associated Lab Samples: 92136280006, 92136280007, 92136280009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	11/07/12 18:15	
Arsenic	ug/L	ND	5.0	11/07/12 18:15	
Barium	ug/L	ND	5.0	11/07/12 18:15	
Beryllium	ug/L	ND	1.0	11/07/12 18:15	
Cadmium	ug/L	ND	1.0	11/07/12 18:15	
Chromium	ug/L	ND	5.0	11/07/12 18:15	
Cobalt	ug/L	ND	5.0	11/07/12 18:15	
Copper	ug/L	ND	5.0	11/07/12 18:15	
Lead	ug/L	ND	5.0	11/07/12 18:15	
Nickel	ug/L	ND	5.0	11/07/12 18:15	
Selenium	ug/L	ND	10.0	11/07/12 18:15	
Silver	ug/L	ND	5.0	11/07/12 18:15	
Thallium	ug/L	ND	5.4	11/07/12 18:15	
Tin	ug/L	ND	5.0	11/07/12 18:15	
Vanadium	ug/L	ND	5.0	11/07/12 18:15	
Zinc	ug/L	ND	10.0	11/07/12 18:15	

LABORATORY CONTROL SAMPLE: 865046

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	489	98	80-120	
Arsenic	ug/L	500	475	95	80-120	
Barium	ug/L	500	491	98	80-120	
Beryllium	ug/L	500	501	100	80-120	
Cadmium	ug/L	500	482	96	80-120	
Chromium	ug/L	500	493	99	80-120	
Cobalt	ug/L	500	482	96	80-120	
Copper	ug/L	500	493	99	80-120	
Lead	ug/L	500	484	97	80-120	
Nickel	ug/L	500	479	96	80-120	
Selenium	ug/L	500	484	97	80-120	
Silver	ug/L	250	241	96	80-120	
Thallium	ug/L	500	474	95	80-120	
Tin	ug/L	500	479	96	80-120	
Vanadium	ug/L	500	485	97	80-120	
Zinc	ug/L	500	480	96	80-120	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 865050 865051

Parameter	Units	92137124004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	500	500	515	495	103	99	75-125	4	25	
Arsenic	ug/L	ND	500	500	504	485	101	97	75-125	4	25	
Barium	ug/L	18.5	500	500	535	513	103	99	75-125	4	25	
Beryllium	ug/L	ND	500	500	530	509	106	102	75-125	4	25	
Cadmium	ug/L	ND	500	500	508	489	102	98	75-125	4	25	
Chromium	ug/L	ND	500	500	519	503	104	101	75-125	3	25	
Cobalt	ug/L	ND	500	500	508	488	102	98	75-125	4	25	
Copper	ug/L	ND	500	500	522	501	104	100	75-125	4	25	
Lead	ug/L	ND	500	500	509	489	102	98	75-125	4	25	
Nickel	ug/L	ND	500	500	505	485	101	97	75-125	4	25	
Selenium	ug/L	ND	500	500	508	490	102	98	75-125	4	25	
Silver	ug/L	ND	250	250	254	243	101	97	75-125	4	25	
Thallium	ug/L	ND	500	500	497	477	99	95	75-125	4	25	
Tin	ug/L	ND	500	500	501	481	100	96	75-125	4	25	
Vanadium	ug/L	ND	500	500	515	495	103	99	75-125	4	25	
Zinc	ug/L	ND	500	500	510	490	101	97	75-125	4	25	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

QC Batch: MPRP/36015 Analysis Method: EPA 6020
QC Batch Method: EPA 3020 Analysis Description: 6020 MET
Associated Lab Samples: 92136280001, 92136280002

METHOD BLANK: 1319624 Matrix: Water
Associated Lab Samples: 92136280001, 92136280002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Thallium	ug/L	ND	0.10	11/15/12 11:19	

LABORATORY CONTROL SAMPLE: 1319625

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Thallium	ug/L	80	80.1	100	80-120	

MATRIX SPIKE SAMPLE: 1319628

Parameter	Units	10210130005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Thallium	ug/L	ND	80	78.6	98	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1321468 1321469

Parameter	Units	10209711001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Thallium	ug/L	<0.019	80	80	79.4	79.5	99	99	75-125	.1	20	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

QC Batch: MPRP/36129 Analysis Method: EPA 6020
QC Batch Method: EPA 3020 Analysis Description: 6020 MET
Associated Lab Samples: 92136280004, 92136280005, 92136280006, 92136280007, 92136280008, 92136280009, 92136280011

METHOD BLANK: 1323377 Matrix: Water
Associated Lab Samples: 92136280004, 92136280005, 92136280006, 92136280007, 92136280008, 92136280009, 92136280011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Thallium	ug/L	0.042J	0.10	11/12/12 11:48	

LABORATORY CONTROL SAMPLE: 1323378

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Thallium	ug/L	80	88.0	110	80-120	

MATRIX SPIKE SAMPLE: 1323379

Parameter	Units	92136280004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Thallium	ug/L	0.10	80	89.4	112	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1323380 1323381

Parameter	Units	10210392002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Thallium	ug/L	ND	80	80	95.8	89.9	120	112	75-125	6	20	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

QC Batch: MSV/6899 | Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2 | Analysis Description: 524.2 MSV
Associated Lab Samples: 92136280012, 92136280013

METHOD BLANK: 496131 | Matrix: Water
Associated Lab Samples: 92136280012, 92136280013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	0.50	10/29/12 19:59	
1,1,2-Trichloroethane	ug/L	ND	0.50	10/29/12 19:59	
1,1-Dichloroethene	ug/L	ND	0.50	10/29/12 19:59	
1,2,4-Trichlorobenzene	ug/L	ND	0.50	10/29/12 19:59	
1,2-Dichlorobenzene	ug/L	ND	0.50	10/29/12 19:59	
1,2-Dichloroethane	ug/L	ND	0.50	10/29/12 19:59	
1,2-Dichloropropane	ug/L	ND	0.50	10/29/12 19:59	
1,4-Dichlorobenzene	ug/L	ND	0.50	10/29/12 19:59	
Benzene	ug/L	ND	0.50	10/29/12 19:59	
Carbon tetrachloride	ug/L	ND	0.50	10/29/12 19:59	
Chlorobenzene	ug/L	ND	0.50	10/29/12 19:59	
cis-1,2-Dichloroethene	ug/L	ND	0.50	10/29/12 19:59	
Ethylbenzene	ug/L	ND	0.50	10/29/12 19:59	
Methylene Chloride	ug/L	ND	0.50	10/29/12 19:59	
Styrene	ug/L	ND	0.50	10/29/12 19:59	
Tetrachloroethene	ug/L	ND	0.50	10/29/12 19:59	
Toluene	ug/L	ND	0.50	10/29/12 19:59	
trans-1,2-Dichloroethene	ug/L	ND	0.50	10/29/12 19:59	
Trichloroethene	ug/L	ND	0.50	10/29/12 19:59	
Vinyl chloride	ug/L	ND	0.50	10/29/12 19:59	
Xylene (Total)	ug/L	ND	0.50	10/29/12 19:59	
1,2-Dichloroethane-d4 (S)	%	101	70-130	10/29/12 19:59	
4-Bromofluorobenzene (S)	%	96	70-130	10/29/12 19:59	
Dibromofluoromethane (S)	%	102	70-130	10/29/12 19:59	
Toluene-d8 (S)	%	95	70-130	10/29/12 19:59	

LABORATORY CONTROL SAMPLE & LCSD: 496132 496133

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	5	5.2	4.9	105	98	70-130	7	40	
1,1,2-Trichloroethane	ug/L	5	4.3	4.6	86	92	70-130	7	40	
1,1-Dichloroethene	ug/L	5	5.1	4.2	102	83	70-130	20	40	
1,2,4-Trichlorobenzene	ug/L	5	4.0	4.4	81	88	70-130	9	40	
1,2-Dichlorobenzene	ug/L	5	4.6	4.6	92	92	70-130	.5	40	
1,2-Dichloroethane	ug/L	5	4.8	4.9	95	98	70-130	3	40	
1,2-Dichloropropane	ug/L	5	4.8	4.1	96	83	70-130	15	40	
1,4-Dichlorobenzene	ug/L	5	4.7	4.6	94	93	70-130	1	40	
Benzene	ug/L	5	5.0	4.9	99	99	70-130	.5	40	
Carbon tetrachloride	ug/L	5	4.9	4.7	98	95	70-130	3	40	
Chlorobenzene	ug/L	5	4.7	4.6	93	92	70-130	.8	40	
cis-1,2-Dichloroethene	ug/L	5	5.0	5.3	101	105	70-130	4	40	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

LABORATORY CONTROL SAMPLE & LCSD: 496132 496133

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethylbenzene	ug/L	5	4.5	4.5	90	89	70-130	1	40	
Methylene Chloride	ug/L	5	5.5	5.3	110	107	70-130	3	40	
Styrene	ug/L	5	4.4	4.5	88	90	70-130	2	40	
Tetrachloroethene	ug/L	5	4.6	4.5	91	90	70-130	1	40	
Toluene	ug/L	5	4.3	4.3	86	86	70-130	.2	40	
trans-1,2-Dichloroethene	ug/L	5	5.1	5.0	103	101	70-130	2	40	
Trichloroethene	ug/L	5	4.7	4.7	94	94	70-130	.07	40	
Vinyl chloride	ug/L	5	4.6	4.7	92	94	70-130	1	40	
Xylene (Total)	ug/L	15	13.9	13.6	93	91	70-130	2	40	
1,2-Dichloroethane-d4 (S)	%				106	103	70-130			
4-Bromofluorobenzene (S)	%				97	94	70-130			
Dibromofluoromethane (S)	%				107	106	70-130			
Toluene-d8 (S)	%				96	94	70-130			

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

QC Batch: MSV/20869 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92136280001, 92136280002, 92136280003

METHOD BLANK: 861690 Matrix: Water
Associated Lab Samples: 92136280001, 92136280002, 92136280003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	10/27/12 23:53	
1,1,1-Trichloroethane	ug/L	ND	1.0	10/27/12 23:53	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	10/27/12 23:53	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/27/12 23:53	
1,1-Dichloroethane	ug/L	ND	1.0	10/27/12 23:53	
1,1-Dichloroethene	ug/L	ND	1.0	10/27/12 23:53	
1,1-Dichloropropene	ug/L	ND	1.0	10/27/12 23:53	
1,2,3-Trichloropropane	ug/L	ND	1.0	10/27/12 23:53	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	10/27/12 23:53	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	10/27/12 23:53	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	10/27/12 23:53	
1,2-Dichlorobenzene	ug/L	ND	1.0	10/27/12 23:53	
1,2-Dichloroethane	ug/L	ND	1.0	10/27/12 23:53	
1,2-Dichloropropane	ug/L	ND	1.0	10/27/12 23:53	
1,3-Dichlorobenzene	ug/L	ND	1.0	10/27/12 23:53	
1,3-Dichloropropane	ug/L	ND	1.0	10/27/12 23:53	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/27/12 23:53	
2,2-Dichloropropane	ug/L	ND	1.0	10/27/12 23:53	
2-Butanone (MEK)	ug/L	ND	5.0	10/27/12 23:53	
2-Hexanone	ug/L	ND	5.0	10/27/12 23:53	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	10/27/12 23:53	
Acetone	ug/L	ND	25.0	10/27/12 23:53	
Acetonitrile	ug/L	ND	50.0	10/27/12 23:53	
Acrolein	ug/L	ND	10.0	10/27/12 23:53	
Acrylonitrile	ug/L	ND	10.0	10/27/12 23:53	
Allyl chloride	ug/L	ND	2.0	10/27/12 23:53	
Benzene	ug/L	ND	1.0	10/27/12 23:53	
Bromochloromethane	ug/L	ND	1.0	10/27/12 23:53	
Bromodichloromethane	ug/L	ND	1.0	10/27/12 23:53	
Bromoform	ug/L	ND	1.0	10/27/12 23:53	
Bromomethane	ug/L	ND	2.0	10/27/12 23:53	
Carbon disulfide	ug/L	ND	2.0	10/27/12 23:53	
Carbon tetrachloride	ug/L	ND	1.0	10/27/12 23:53	
Chlorobenzene	ug/L	ND	1.0	10/27/12 23:53	
Chloroethane	ug/L	ND	1.0	10/27/12 23:53	
Chloroform	ug/L	ND	1.0	10/27/12 23:53	
Chloromethane	ug/L	ND	1.0	10/27/12 23:53	
Chloroprene	ug/L	ND	5.0	10/27/12 23:53	
cis-1,2-Dichloroethene	ug/L	ND	1.0	10/27/12 23:53	
cis-1,3-Dichloropropene	ug/L	ND	1.0	10/27/12 23:53	
Dibromochloromethane	ug/L	ND	1.0	10/27/12 23:53	
Dibromomethane	ug/L	ND	1.0	10/27/12 23:53	
Dichlorodifluoromethane	ug/L	ND	1.0	10/27/12 23:53	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

METHOD BLANK: 861690 Matrix: Water

Associated Lab Samples: 92136280001, 92136280002, 92136280003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethyl methacrylate	ug/L	ND	1.0	10/27/12 23:53	
Ethylbenzene	ug/L	ND	1.0	10/27/12 23:53	
Iodomethane	ug/L	ND	5.0	10/27/12 23:53	
Isobutanol	ug/L	ND	100	10/27/12 23:53	
m&p-Xylene	ug/L	ND	2.0	10/27/12 23:53	
Methacrylonitrile	ug/L	ND	10.0	10/27/12 23:53	
Methyl methacrylate	ug/L	ND	2.0	10/27/12 23:53	
Methylene Chloride	ug/L	ND	1.0	10/27/12 23:53	
Naphthalene	ug/L	ND	1.0	10/27/12 23:53	
o-Xylene	ug/L	ND	1.0	10/27/12 23:53	
Propionitrile	ug/L	ND	20.0	10/27/12 23:53	
Styrene	ug/L	ND	1.0	10/27/12 23:53	
Tetrachloroethene	ug/L	ND	1.0	10/27/12 23:53	
Toluene	ug/L	ND	1.0	10/27/12 23:53	
trans-1,2-Dichloroethene	ug/L	ND	1.0	10/27/12 23:53	
trans-1,3-Dichloropropene	ug/L	ND	1.0	10/27/12 23:53	
trans-1,4-Dichloro-2-butene	ug/L	ND	1.0	10/27/12 23:53	
Trichloroethene	ug/L	ND	1.0	10/27/12 23:53	
Trichlorofluoromethane	ug/L	ND	1.0	10/27/12 23:53	
Vinyl acetate	ug/L	ND	2.0	10/27/12 23:53	
Vinyl chloride	ug/L	ND	1.0	10/27/12 23:53	
Xylene (Total)	ug/L	ND	2.0	10/27/12 23:53	
1,2-Dichloroethane-d4 (S)	%	99	70-130	10/27/12 23:53	
4-Bromofluorobenzene (S)	%	100	70-130	10/27/12 23:53	
Dibromofluoromethane (S)	%	93	70-130	10/27/12 23:53	
Toluene-d8 (S)	%	95	70-130	10/27/12 23:53	

LABORATORY CONTROL SAMPLE: 861691

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	46.7	93	70-130	
1,1,1-Trichloroethane	ug/L	50	41.5	83	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	51.2	102	70-130	
1,1,2-Trichloroethane	ug/L	50	47.1	94	70-130	
1,1-Dichloroethane	ug/L	50	42.4	85	70-130	
1,1-Dichloroethene	ug/L	50	42.9	86	70-132	
1,1-Dichloropropene	ug/L	50	36.0	72	70-130	
1,2,3-Trichloropropane	ug/L	50	51.3	103	70-130	
1,2,4-Trichlorobenzene	ug/L	50	49.0	98	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	58.8	118	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	48.6	97	70-130	
1,2-Dichlorobenzene	ug/L	50	46.3	93	70-130	
1,2-Dichloroethane	ug/L	50	45.0	90	70-130	
1,2-Dichloropropane	ug/L	50	43.6	87	70-130	
1,3-Dichlorobenzene	ug/L	50	45.5	91	70-130	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

LABORATORY CONTROL SAMPLE: 861691

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichloropropane	ug/L	50	46.7	93	70-130	
1,4-Dichlorobenzene	ug/L	50	46.7	93	70-130	
2,2-Dichloropropane	ug/L	50	35.6	71	58-145	
2-Butanone (MEK)	ug/L	100	119	119	70-145	
2-Hexanone	ug/L	100	136	136	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	118	118	70-140	
Acetone	ug/L	100	127	127	50-175	
Acetonitrile	ug/L	500	698	140	70-130	L3
Acrolein	ug/L	250	299	119	70-130	
Acrylonitrile	ug/L	250	273	109	70-143	
Allyl chloride	ug/L	50	41.9	84	70-130	
Benzene	ug/L	50	43.1	86	70-130	
Bromochloromethane	ug/L	50	38.4	77	70-130	
Bromodichloromethane	ug/L	50	46.0	92	70-130	
Bromoform	ug/L	50	48.6	97	70-130	
Bromomethane	ug/L	50	34.4	69	54-130	
Carbon disulfide	ug/L	50	46.1	92	70-131	
Carbon tetrachloride	ug/L	50	41.1	82	70-132	
Chlorobenzene	ug/L	50	46.2	92	70-130	
Chloroethane	ug/L	50	42.8	86	64-134	
Chloroform	ug/L	50	41.1	82	70-130	
Chloromethane	ug/L	50	40.4	81	64-130	
Chloroprene	ug/L	50	43.3	87	70-130	
cis-1,2-Dichloroethene	ug/L	50	42.5	85	70-131	
cis-1,3-Dichloropropene	ug/L	50	44.2	88	70-130	
Dibromochloromethane	ug/L	50	45.8	92	70-130	
Dibromomethane	ug/L	50	44.0	88	70-131	
Dichlorodifluoromethane	ug/L	50	45.0	90	56-130	
Ethyl methacrylate	ug/L	50	58.4	117	70-130	
Ethylbenzene	ug/L	50	47.4	95	70-130	
Iodomethane	ug/L	100	63.5	63	49-180	
Isobutanol	ug/L	1000	1530	153	70-130	L3
m&p-Xylene	ug/L	100	98.1	98	70-130	
Methacrylonitrile	ug/L	500	512	102	70-130	
Methyl methacrylate	ug/L	50	50.7	101	70-130	
Methylene Chloride	ug/L	50	40.2	80	63-130	
Naphthalene	ug/L	50	52.7	105	70-138	
o-Xylene	ug/L	50	47.8	96	70-130	
Propionitrile	ug/L	500	631	126	70-130	
Styrene	ug/L	50	46.9	94	70-130	
Tetrachloroethene	ug/L	50	44.1	88	70-130	
Toluene	ug/L	50	43.7	87	70-130	
trans-1,2-Dichloroethene	ug/L	50	40.9	82	70-130	
trans-1,3-Dichloropropene	ug/L	50	45.7	91	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	61.5	123	70-141	
Trichloroethene	ug/L	50	41.1	82	70-130	
Trichlorofluoromethane	ug/L	50	48.9	98	62-133	
Vinyl acetate	ug/L	100	86.6	87	66-157	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

LABORATORY CONTROL SAMPLE: 861691

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	50	37.1	74	69-130	
Xylene (Total)	ug/L	150	146	97	70-130	
1,2-Dichloroethane-d4 (S)	%			105	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Dibromofluoromethane (S)	%			87	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 861692 861693

Parameter	Units	92136311003 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	61.8	51.1	124	102	70-166	19	30	
Benzene	ug/L	ND	50	50	51.7	44.6	103	89	70-148	15	30	
Chlorobenzene	ug/L	0.25J	50	50	60.3	53.4	120	106	70-146	12	30	
Toluene	ug/L	ND	50	50	57.4	50.2	115	100	70-155	13	30	
Trichloroethene	ug/L	ND	50	50	58.7	51.5	117	103	69-151	13	30	
1,2-Dichloroethane-d4 (S)	%						99	101	70-130			
4-Bromofluorobenzene (S)	%						99	101	70-130			
Dibromofluoromethane (S)	%						94	94	70-130			
Toluene-d8 (S)	%						99	96	70-130			

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

QC Batch: MSV/20965 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92136280004, 92136280005, 92136280006, 92136280007, 92136280008, 92136280009, 92136280010, 92136280011, 92136280014, 92136280015

METHOD BLANK: 865915 Matrix: Water
Associated Lab Samples: 92136280004, 92136280005, 92136280006, 92136280007, 92136280008, 92136280009, 92136280010, 92136280011, 92136280014, 92136280015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	11/03/12 15:04	
1,1,1-Trichloroethane	ug/L	ND	1.0	11/03/12 15:04	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/03/12 15:04	
1,1,2-Trichloroethane	ug/L	ND	1.0	11/03/12 15:04	
1,1-Dichloroethane	ug/L	ND	1.0	11/03/12 15:04	
1,1-Dichloroethene	ug/L	ND	1.0	11/03/12 15:04	
1,1-Dichloropropene	ug/L	ND	1.0	11/03/12 15:04	
1,2,3-Trichloropropane	ug/L	ND	1.0	11/03/12 15:04	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	11/03/12 15:04	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	11/03/12 15:04	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	11/03/12 15:04	
1,2-Dichlorobenzene	ug/L	ND	1.0	11/03/12 15:04	
1,2-Dichloroethane	ug/L	ND	1.0	11/03/12 15:04	
1,2-Dichloropropane	ug/L	ND	1.0	11/03/12 15:04	
1,3-Dichlorobenzene	ug/L	ND	1.0	11/03/12 15:04	
1,3-Dichloropropane	ug/L	ND	1.0	11/03/12 15:04	
1,4-Dichlorobenzene	ug/L	ND	1.0	11/03/12 15:04	
2,2-Dichloropropane	ug/L	ND	1.0	11/03/12 15:04	
2-Butanone (MEK)	ug/L	ND	5.0	11/03/12 15:04	
2-Hexanone	ug/L	ND	5.0	11/03/12 15:04	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	11/03/12 15:04	
Acetone	ug/L	ND	25.0	11/03/12 15:04	
Acetonitrile	ug/L	ND	50.0	11/03/12 15:04	
Acrolein	ug/L	ND	10.0	11/03/12 15:04	
Acrylonitrile	ug/L	ND	10.0	11/03/12 15:04	
Allyl chloride	ug/L	ND	2.0	11/03/12 15:04	
Benzene	ug/L	ND	1.0	11/03/12 15:04	
Bromochloromethane	ug/L	ND	1.0	11/03/12 15:04	
Bromodichloromethane	ug/L	ND	1.0	11/03/12 15:04	
Bromoform	ug/L	ND	1.0	11/03/12 15:04	
Bromomethane	ug/L	ND	2.0	11/03/12 15:04	
Carbon disulfide	ug/L	ND	2.0	11/03/12 15:04	
Carbon tetrachloride	ug/L	ND	1.0	11/03/12 15:04	
Chlorobenzene	ug/L	ND	1.0	11/03/12 15:04	
Chloroethane	ug/L	ND	1.0	11/03/12 15:04	
Chloroform	ug/L	ND	1.0	11/03/12 15:04	
Chloromethane	ug/L	ND	1.0	11/03/12 15:04	
Chloroprene	ug/L	ND	5.0	11/03/12 15:04	
cis-1,2-Dichloroethene	ug/L	ND	1.0	11/03/12 15:04	
cis-1,3-Dichloropropene	ug/L	ND	1.0	11/03/12 15:04	
Dibromochloromethane	ug/L	ND	1.0	11/03/12 15:04	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

METHOD BLANK: 865915 Matrix: Water

Associated Lab Samples: 92136280004, 92136280005, 92136280006, 92136280007, 92136280008, 92136280009, 92136280010, 92136280011, 92136280014, 92136280015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	1.0	11/03/12 15:04	
Dichlorodifluoromethane	ug/L	ND	1.0	11/03/12 15:04	
Ethyl methacrylate	ug/L	ND	1.0	11/03/12 15:04	
Ethylbenzene	ug/L	ND	1.0	11/03/12 15:04	
Iodomethane	ug/L	ND	5.0	11/03/12 15:04	
Isobutanol	ug/L	ND	100	11/03/12 15:04	
m&p-Xylene	ug/L	ND	2.0	11/03/12 15:04	
Methacrylonitrile	ug/L	ND	10.0	11/03/12 15:04	
Methyl methacrylate	ug/L	ND	2.0	11/03/12 15:04	
Methylene Chloride	ug/L	ND	1.0	11/03/12 15:04	
Naphthalene	ug/L	ND	1.0	11/03/12 15:04	
o-Xylene	ug/L	ND	1.0	11/03/12 15:04	
Propionitrile	ug/L	ND	20.0	11/03/12 15:04	
Styrene	ug/L	ND	1.0	11/03/12 15:04	
Tetrachloroethene	ug/L	ND	1.0	11/03/12 15:04	
Toluene	ug/L	ND	1.0	11/03/12 15:04	
trans-1,2-Dichloroethene	ug/L	ND	1.0	11/03/12 15:04	
trans-1,3-Dichloropropene	ug/L	ND	1.0	11/03/12 15:04	
trans-1,4-Dichloro-2-butene	ug/L	ND	1.0	11/03/12 15:04	
Trichloroethene	ug/L	ND	1.0	11/03/12 15:04	
Trichlorofluoromethane	ug/L	ND	1.0	11/03/12 15:04	
Vinyl acetate	ug/L	ND	2.0	11/03/12 15:04	
Vinyl chloride	ug/L	ND	1.0	11/03/12 15:04	
Xylene (Total)	ug/L	ND	2.0	11/03/12 15:04	
1,2-Dichloroethane-d4 (S)	%	104	70-130	11/03/12 15:04	
4-Bromofluorobenzene (S)	%	96	70-130	11/03/12 15:04	
Dibromofluoromethane (S)	%	101	70-130	11/03/12 15:04	
Toluene-d8 (S)	%	100	70-130	11/03/12 15:04	

LABORATORY CONTROL SAMPLE: 865916

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.9	102	70-130	
1,1,1-Trichloroethane	ug/L	50	50.9	102	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	52.6	105	70-130	
1,1,2-Trichloroethane	ug/L	50	50.3	101	70-130	
1,1-Dichloroethane	ug/L	50	50.2	100	70-130	
1,1-Dichloroethene	ug/L	50	50.4	101	70-132	
1,1-Dichloropropene	ug/L	50	50.3	101	70-130	
1,2,3-Trichloropropane	ug/L	50	52.1	104	70-130	
1,2,4-Trichlorobenzene	ug/L	50	53.3	107	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	56.2	112	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	51.0	102	70-130	
1,2-Dichlorobenzene	ug/L	50	52.9	106	70-130	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

LABORATORY CONTROL SAMPLE: 865916

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	48.6	97	70-130	
1,2-Dichloropropane	ug/L	50	50.5	101	70-130	
1,3-Dichlorobenzene	ug/L	50	52.9	106	70-130	
1,3-Dichloropropane	ug/L	50	50.4	101	70-130	
1,4-Dichlorobenzene	ug/L	50	51.7	103	70-130	
2,2-Dichloropropane	ug/L	50	48.1	96	58-145	
2-Butanone (MEK)	ug/L	100	102	102	70-145	
2-Hexanone	ug/L	100	112	112	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	109	109	70-140	
Acetone	ug/L	100	92.1	92	50-175	
Acetonitrile	ug/L	500	530	106	70-130	
Acrolein	ug/L	250	264	106	70-130	
Acrylonitrile	ug/L	250	263	105	70-143	
Allyl chloride	ug/L	50	50.2	100	70-130	
Benzene	ug/L	50	51.6	103	70-130	
Bromochloromethane	ug/L	50	51.1	102	70-130	
Bromodichloromethane	ug/L	50	52.5	105	70-130	
Bromoform	ug/L	50	54.2	108	70-130	
Bromomethane	ug/L	50	54.0	108	54-130	
Carbon disulfide	ug/L	50	43.8	88	70-131	
Carbon tetrachloride	ug/L	50	51.6	103	70-132	
Chlorobenzene	ug/L	50	51.9	104	70-130	
Chloroethane	ug/L	50	18.2	36	64-134	L0
Chloroform	ug/L	50	51.4	103	70-130	
Chloromethane	ug/L	50	64.8	130	64-130	
Chloroprene	ug/L	50	52.2	104	70-130	
cis-1,2-Dichloroethene	ug/L	50	49.1	98	70-131	
cis-1,3-Dichloropropene	ug/L	50	51.8	104	70-130	
Dibromochloromethane	ug/L	50	52.0	104	70-130	
Dibromomethane	ug/L	50	50.8	102	70-131	
Dichlorodifluoromethane	ug/L	50	67.2	134	56-130	F3,L3
Ethyl methacrylate	ug/L	50	56.5	113	70-130	
Ethylbenzene	ug/L	50	52.2	104	70-130	
Iodomethane	ug/L	100	92.1	92	49-180	
Isobutanol	ug/L	1000	1270	127	70-130	
m&p-Xylene	ug/L	100	105	105	70-130	
Methacrylonitrile	ug/L	500	512	102	70-130	
Methyl methacrylate	ug/L	50	50.6	101	70-130	
Methylene Chloride	ug/L	50	49.0	98	63-130	
Naphthalene	ug/L	50	52.9	106	70-138	
o-Xylene	ug/L	50	49.9	100	70-130	
Propionitrile	ug/L	500	542	108	70-130	
Styrene	ug/L	50	54.0	108	70-130	
Tetrachloroethene	ug/L	50	51.4	103	70-130	
Toluene	ug/L	50	51.4	103	70-130	
trans-1,2-Dichloroethene	ug/L	50	49.6	99	70-130	
trans-1,3-Dichloropropene	ug/L	50	52.1	104	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	65.0	130	70-141	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

LABORATORY CONTROL SAMPLE: 865916

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/L	50	50.0	100	70-130	
Trichlorofluoromethane	ug/L	50	54.4	109	62-133	
Vinyl acetate	ug/L	100	105	105	66-157	
Vinyl chloride	ug/L	50	57.8	116	69-130	
Xylene (Total)	ug/L	150	155	103	70-130	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Dibromofluoromethane (S)	%			99	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 865917 865918

Parameter	Units	92136280005 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	58.1	55.3	116	111	70-166	5	30	
Benzene	ug/L	1.3	50	50	51.8	47.6	101	93	70-148	8	30	
Chlorobenzene	ug/L	11.6	50	50	70.4	65.6	118	108	70-146	7	30	
Toluene	ug/L	ND	50	50	57.8	53.4	115	107	70-155	8	30	
Trichloroethene	ug/L	ND	50	50	57.5	54.1	115	108	69-151	6	30	
1,2-Dichloroethane-d4 (S)	%						108	108	70-130			
4-Bromofluorobenzene (S)	%						95	95	70-130			
Dibromofluoromethane (S)	%						103	105	70-130			
Toluene-d8 (S)	%						100	99	70-130			

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

QC Batch: OEXT/19469 Analysis Method: EPA 8082
QC Batch Method: EPA 3510 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 92136280001, 92136280002, 92136280004, 92136280005, 92136280006, 92136280007, 92136280008, 92136280009, 92136280011

METHOD BLANK: 860854 Matrix: Water
Associated Lab Samples: 92136280001, 92136280002, 92136280004, 92136280005, 92136280006, 92136280007, 92136280008, 92136280009, 92136280011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	ND	0.50	11/01/12 18:36	
PCB-1221 (Aroclor 1221)	ug/L	ND	0.50	11/01/12 18:36	
PCB-1232 (Aroclor 1232)	ug/L	ND	0.50	11/01/12 18:36	
PCB-1242 (Aroclor 1242)	ug/L	ND	0.50	11/01/12 18:36	
PCB-1248 (Aroclor 1248)	ug/L	ND	0.50	11/01/12 18:36	
PCB-1254 (Aroclor 1254)	ug/L	ND	0.50	11/01/12 18:36	
PCB-1260 (Aroclor 1260)	ug/L	ND	0.50	11/01/12 18:36	
Decachlorobiphenyl (S)	%	98	10-132	11/01/12 18:36	

LABORATORY CONTROL SAMPLE: 860855

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	5	3.8	76	50-150	
PCB-1260 (Aroclor 1260)	ug/L	5	3.8	77	50-150	
Decachlorobiphenyl (S)	%			85	10-132	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 860856 860857

Parameter	Units	92136280009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/L	ND	10	10	8.4	8.1	84	81	50-150	4	30	
PCB-1260 (Aroclor 1260)	ug/L	ND	10	10	8.6	8.7	86	87	50-150	1	30	
Decachlorobiphenyl (S)	%						87	92	10-132			

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

QC Batch: OEXT/10375 | Analysis Method: EPA 8151
QC Batch Method: EPA 8151 | Analysis Description: 8151A GCS Herbicides
Associated Lab Samples: 92136280001, 92136280002

METHOD BLANK: 493618 | Matrix: Water
Associated Lab Samples: 92136280001, 92136280002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-T	ug/L	ND	0.19	10/27/12 05:12	
2,4,5-TP (Silvex)	ug/L	ND	0.19	10/27/12 05:12	
2,4-D	ug/L	ND	0.94	10/27/12 05:12	
Dinoseb	ug/L	ND	0.19	10/27/12 05:12	
Pentachlorophenol	ug/L	ND	0.028	10/27/12 05:12	
2,4-DCAA (S)	%	99	42-142	10/27/12 05:12	

LABORATORY CONTROL SAMPLE: 493619

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-T	ug/L	1.2	1.4	116	28-161	
2,4,5-TP (Silvex)	ug/L	1.2	1.5	122	27-170	
2,4-D	ug/L	6	5.6	94	23-163	
Dinoseb	ug/L	1.2	0.37	31	24-151	
Pentachlorophenol	ug/L	.18	0.15	82	29-143	
2,4-DCAA (S)	%			97	42-142	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 494483 494484

Parameter	Units	92136280001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2,4,5-T	ug/L	ND	2.4	2.4	3.1	3.0	128	127	36-169	.7	40	
2,4,5-TP (Silvex)	ug/L	ND	2.4	2.4	2.8	3.0	116	124	20-176	7	40	
2,4-D	ug/L	ND	12	12	12.1	12.8	101	107	17-167	6	40	
Dinoseb	ug/L	ND	2.4	2.4	8.4	2.2	350	92	10-163	117	40	D6,M1
Pentachlorophenol	ug/L	ND	.36	.36	0.14	0.33	38	93	10-162	83	40	D6
2,4-DCAA (S)	%						124	148	42-142			S0

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

QC Batch: OEXT/10403 Analysis Method: EPA 8151
QC Batch Method: EPA 8151 Analysis Description: 8151A GCS Herbicides
Associated Lab Samples: 92136280004, 92136280005, 92136280006, 92136280007, 92136280008, 92136280009, 92136280011

METHOD BLANK: 495600 Matrix: Water
Associated Lab Samples: 92136280004, 92136280005, 92136280006, 92136280007, 92136280008, 92136280009, 92136280011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-T	ug/L	<0.042	0.19	10/29/12 20:55	
2,4,5-TP (Silvex)	ug/L	<0.049	0.19	10/29/12 20:55	
2,4-D	ug/L	<0.22	0.94	10/29/12 20:55	
Dinoseb	ug/L	<0.057	0.19	10/29/12 20:55	
Pentachlorophenol	ug/L	<0.017	0.028	10/29/12 20:55	
2,4-DCAA (S)	%	108	42-142	10/29/12 20:55	

LABORATORY CONTROL SAMPLE: 495601

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-T	ug/L	1.2	1.0	86	28-161	
2,4,5-TP (Silvex)	ug/L	1.2	1.2	100	27-170	
2,4-D	ug/L	6	4.8	80	23-163	
Dinoseb	ug/L	1.2	0.70	58	24-151	
Pentachlorophenol	ug/L	.18	0.12	65	29-143	
2,4-DCAA (S)	%			83	42-142	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 495602 495603

Parameter	Units	92136576003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2,4,5-T	ug/L	ND	2.4	2.4	2.0	2.0	83	83	36-169	.2	40	
2,4,5-TP (Silvex)	ug/L	ND	2.4	2.4	2.2	2.3	94	95	20-176	1	40	
2,4-D	ug/L	ND	12	12	9.2	9.3	77	77	17-167	.3	40	
Dinoseb	ug/L	ND	2.4	2.4	1.3	1.3	54	55	10-163	2	40	
Pentachlorophenol	ug/L	ND	.36	.36	0.23	0.23	64	64	10-162	.6	40	
2,4-DCAA (S)	%						81	81	42-142			

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

QC Batch: OEXT/19479 Analysis Method: EPA 8270
QC Batch Method: EPA 3510 Analysis Description: 8270 Water MSSV
Associated Lab Samples: 92136280001, 92136280002, 92136280004, 92136280005, 92136280006, 92136280007, 92136280008, 92136280009, 92136280011

METHOD BLANK: 861198 Matrix: Water
Associated Lab Samples: 92136280001, 92136280002, 92136280004, 92136280005, 92136280006, 92136280007, 92136280008, 92136280009, 92136280011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4,5-Tetrachlorobenzene	ug/L	ND	10.0	10/30/12 10:40	
1,2,4-Trichlorobenzene	ug/L	ND	10.0	10/30/12 10:40	
1,2-Dichlorobenzene	ug/L	ND	10.0	10/30/12 10:40	
1,2-Diphenylhydrazine	ug/L	ND	10.0	10/30/12 10:40	
1,3,5-Trinitrobenzene	ug/L	ND	10.0	10/30/12 10:40	
1,3-Dichlorobenzene	ug/L	ND	10.0	10/30/12 10:40	
1,3-Dinitrobenzene	ug/L	ND	20.0	10/30/12 10:40	
1,4-Dichlorobenzene	ug/L	ND	10.0	10/30/12 10:40	
1,4-Dinitrobenzene	ug/L	ND	20.0	10/30/12 10:40	
1,4-Naphthoquinone	ug/L	ND	5.0	10/30/12 10:40	
1-Methylnaphthalene	ug/L	ND	10.0	10/30/12 10:40	
1-Naphthalenamine	ug/L	ND	5.0	10/30/12 10:40	
2,2'-Oxybis(1-chloropropane)	ug/L	ND	10.0	10/30/12 10:40	
2,3,4,6-Tetrachlorophenol	ug/L	ND	10.0	10/30/12 10:40	
2,3-Dibromo-1-propanol phosph	ug/L	ND	75.0	10/30/12 10:40	
2,3-Dichloroaniline	ug/L	ND	10.0	10/30/12 10:40	
2,4,5-Trichlorophenol	ug/L	ND	10.0	10/30/12 10:40	
2,4,6-Trichlorophenol	ug/L	ND	10.0	10/30/12 10:40	
2,4-Dichlorophenol	ug/L	ND	10.0	10/30/12 10:40	
2,4-Dimethylphenol	ug/L	ND	10.0	10/30/12 10:40	
2,4-Dinitrophenol	ug/L	ND	50.0	10/30/12 10:40	
2,4-Dinitrotoluene	ug/L	ND	10.0	10/30/12 10:40	
2,6-Dichlorophenol	ug/L	ND	10.0	10/30/12 10:40	
2,6-Dinitrotoluene	ug/L	ND	10.0	10/30/12 10:40	
2,6-Toluene diisocyanate	ug/L	ND	10.0	10/30/12 10:40	
2-Acetylaminofluorene	ug/L	ND	20.0	10/30/12 10:40	
2-Chloronaphthalene	ug/L	ND	10.0	10/30/12 10:40	
2-Chlorophenol	ug/L	ND	10.0	10/30/12 10:40	
2-Methyl-5-nitroaniline	ug/L	ND	10.0	10/30/12 10:40	
2-Methylnaphthalene	ug/L	ND	10.0	10/30/12 10:40	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	10/30/12 10:40	
2-Naphthalenamine	ug/L	ND	5.0	10/30/12 10:40	
2-Nitroaniline	ug/L	ND	50.0	10/30/12 10:40	
2-Nitrophenol	ug/L	ND	10.0	10/30/12 10:40	
2-Picoline	ug/L	ND	10.0	10/30/12 10:40	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	10/30/12 10:40	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	10/30/12 10:40	
3,3'-Dimethylbenzidine	ug/L	ND	10.0	10/30/12 10:40	
3-Methylcholanthrene	ug/L	ND	10.0	10/30/12 10:40	
3-Nitroaniline	ug/L	ND	50.0	10/30/12 10:40	
4,4'-Methylene-bis(2-chloroani	ug/L	ND	50.0	10/30/12 10:40	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

METHOD BLANK: 861198 Matrix: Water

Associated Lab Samples: 92136280001, 92136280002, 92136280004, 92136280005, 92136280006, 92136280007, 92136280008, 92136280009, 92136280011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4,6-Dinitro-2-methylphenol	ug/L	ND	20.0	10/30/12 10:40	
4-Aminobiphenyl	ug/L	ND	10.0	10/30/12 10:40	
4-Bromophenylphenyl ether	ug/L	ND	10.0	10/30/12 10:40	
4-Chloro-3-methylphenol	ug/L	ND	20.0	10/30/12 10:40	
4-Chloroaniline	ug/L	ND	20.0	10/30/12 10:40	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	10/30/12 10:40	
4-Nitroaniline	ug/L	ND	20.0	10/30/12 10:40	
4-Nitrophenol	ug/L	ND	50.0	10/30/12 10:40	
4-Nitroquinoline-n-oxide	ug/L	ND	50.0	10/30/12 10:40	
5-Nitro-o-toluidine	ug/L	ND	10.0	10/30/12 10:40	
7,12-Dimethylbenz(a)anthracene	ug/L	ND	10.0	10/30/12 10:40	
a,a-Dimethylphenylethylamine	ug/L	ND	50.0	10/30/12 10:40	
Acenaphthene	ug/L	ND	10.0	10/30/12 10:40	
Acenaphthylene	ug/L	ND	10.0	10/30/12 10:40	
Acetophenone	ug/L	ND	10.0	10/30/12 10:40	
Aniline	ug/L	ND	10.0	10/30/12 10:40	
Anthracene	ug/L	ND	10.0	10/30/12 10:40	
Aramite	ug/L	ND	100	10/30/12 10:40	
Atrazine	ug/L	ND	20.0	10/30/12 10:40	
Benzal chloride	ug/L	ND	50.0	10/30/12 10:40	
Benzaldehyde	ug/L	ND	20.0	10/30/12 10:40	
Benzidine	ug/L	ND	50.0	10/30/12 10:40	
Benzo(a)anthracene	ug/L	ND	10.0	10/30/12 10:40	
Benzo(a)pyrene	ug/L	ND	10.0	10/30/12 10:40	
Benzo(b)fluoranthene	ug/L	ND	10.0	10/30/12 10:40	
Benzo(g,h,i)perylene	ug/L	ND	10.0	10/30/12 10:40	
Benzo(k)fluoranthene	ug/L	ND	10.0	10/30/12 10:40	
Benzoic Acid	ug/L	ND	50.0	10/30/12 10:40	
Benzophenone	ug/L	ND	10.0	10/30/12 10:40	
Benzyl alcohol	ug/L	ND	20.0	10/30/12 10:40	
Biphenyl (Diphenyl)	ug/L	ND	10.0	10/30/12 10:40	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	10/30/12 10:40	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	10/30/12 10:40	
bis(2-Chloroisopropyl) ether	ug/L	ND	10.0	10/30/12 10:40	
bis(2-Ethylhexyl)phthalate	ug/L	ND	6.0	10/30/12 10:40	
Butylbenzylphthalate	ug/L	ND	10.0	10/30/12 10:40	
Caprolactam	ug/L	ND	10.0	10/30/12 10:40	
Carbazole	ug/L	ND	10.0	10/30/12 10:40	
Chlorobenzilate	ug/L	ND	10.0	10/30/12 10:40	
Chrysene	ug/L	ND	10.0	10/30/12 10:40	
Di-n-butylphthalate	ug/L	ND	10.0	10/30/12 10:40	
Di-n-octylphthalate	ug/L	ND	10.0	10/30/12 10:40	
Diallate	ug/L	ND	10.0	10/30/12 10:40	
Dibenz(a,h)anthracene	ug/L	ND	10.0	10/30/12 10:40	
Dibenzo(a,e)pyrene	ug/L	ND	50.0	10/30/12 10:40	
Dibenzofuran	ug/L	ND	10.0	10/30/12 10:40	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

METHOD BLANK: 861198 Matrix: Water

Associated Lab Samples: 92136280001, 92136280002, 92136280004, 92136280005, 92136280006, 92136280007, 92136280008, 92136280009, 92136280011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diethylphthalate	ug/L	ND	10.0	10/30/12 10:40	
Dimethoate	ug/L	ND	10.0	10/30/12 10:40	
Dimethylphthalate	ug/L	ND	10.0	10/30/12 10:40	
Dinoseb	ug/L	ND	20.0	10/30/12 10:40	
Diphenyl ether (Phenyl ether)	ug/L	ND	20.0	10/30/12 10:40	
Diphenylamine	ug/L	ND	10.0	10/30/12 10:40	
Disulfoton	ug/L	ND	10.0	10/30/12 10:40	
Ethyl methanesulfonate	ug/L	ND	20.0	10/30/12 10:40	
Famphur	ug/L	ND	10.0	10/30/12 10:40	
Fluoranthene	ug/L	ND	10.0	10/30/12 10:40	
Fluorene	ug/L	ND	10.0	10/30/12 10:40	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	10/30/12 10:40	
Hexachlorobenzene	ug/L	ND	10.0	10/30/12 10:40	
Hexachlorocyclopentadiene	ug/L	ND	10.0	10/30/12 10:40	
Hexachloroethane	ug/L	ND	10.0	10/30/12 10:40	
Hexachlorophene	ug/L	ND	100	10/30/12 10:40	
Hexachloropropene	ug/L	ND	10.0	10/30/12 10:40	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	10/30/12 10:40	
Isodrin	ug/L	ND	20.0	10/30/12 10:40	
Isophorone	ug/L	ND	10.0	10/30/12 10:40	
Isosafrole	ug/L	ND	10.0	10/30/12 10:40	
Kepone	ug/L	ND	10.0	10/30/12 10:40	
Methapyrilene	ug/L	ND	50.0	10/30/12 10:40	
Methyl methanesulfonate	ug/L	ND	5.0	10/30/12 10:40	
Methyl parathion	ug/L	ND	10.0	10/30/12 10:40	
n-Decane	ug/L	ND	10.0	10/30/12 10:40	
N-Nitroso-di-n-butylamine	ug/L	ND	10.0	10/30/12 10:40	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	10/30/12 10:40	
N-Nitrosodiethylamine	ug/L	ND	20.0	10/30/12 10:40	
N-Nitrosodimethylamine	ug/L	ND	10.0	10/30/12 10:40	
N-Nitrosodiphenylamine	ug/L	ND	10.0	10/30/12 10:40	
N-Nitrosomethylethylamine	ug/L	ND	10.0	10/30/12 10:40	
N-Nitrosomorpholine	ug/L	ND	10.0	10/30/12 10:40	
N-Nitrosopiperidine	ug/L	ND	20.0	10/30/12 10:40	
N-Nitrosopyrrolidine	ug/L	ND	10.0	10/30/12 10:40	
n-Octadecane	ug/L	ND	10.0	10/30/12 10:40	
Naphthalene	ug/L	ND	10.0	10/30/12 10:40	
Nitrobenzene	ug/L	ND	10.0	10/30/12 10:40	
O,O,O-Triethylphosphorothioate	ug/L	ND	10.0	10/30/12 10:40	
O-Toluidine	ug/L	ND	10.0	10/30/12 10:40	
P-Dimethylaminoazobenzene	ug/L	ND	5.0	10/30/12 10:40	
p-Phenylenediamine	ug/L	ND	10.0	10/30/12 10:40	
Parathion (Ethyl parathion)	ug/L	ND	10.0	10/30/12 10:40	
Pentachlorobenzene	ug/L	ND	10.0	10/30/12 10:40	
Pentachloroethane	ug/L	ND	20.0	10/30/12 10:40	
Pentachloronitrobenzene	ug/L	ND	20.0	10/30/12 10:40	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

METHOD BLANK: 861198 Matrix: Water

Associated Lab Samples: 92136280001, 92136280002, 92136280004, 92136280005, 92136280006, 92136280007, 92136280008, 92136280009, 92136280011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Pentachlorophenol	ug/L	ND	25.0	10/30/12 10:40	
Phenacetin	ug/L	ND	20.0	10/30/12 10:40	
Phenanthrene	ug/L	ND	10.0	10/30/12 10:40	
Phenol	ug/L	ND	10.0	10/30/12 10:40	
Phorate	ug/L	ND	10.0	10/30/12 10:40	
Phthalic anhydride	ug/L	ND	75.0	10/30/12 10:40	
Pronamide	ug/L	ND	10.0	10/30/12 10:40	
Pyrene	ug/L	ND	10.0	10/30/12 10:40	
Pyridine	ug/L	ND	10.0	10/30/12 10:40	
Safrole	ug/L	ND	10.0	10/30/12 10:40	
Sulfotepp (Thiodiphosphoric Ac	ug/L	ND	20.0	10/30/12 10:40	
Terpineol	ug/L	ND	10.0	10/30/12 10:40	
Thionazin	ug/L	ND	20.0	10/30/12 10:40	
2,4,6-Tribromophenol (S)	%	65	27-110	10/30/12 10:40	
2-Fluorobiphenyl (S)	%	68	27-110	10/30/12 10:40	
2-Fluorophenol (S)	%	32	12-110	10/30/12 10:40	
Nitrobenzene-d5 (S)	%	62	21-110	10/30/12 10:40	
Phenol-d6 (S)	%	19	10-110	10/30/12 10:40	
Terphenyl-d14 (S)	%	103	31-107	10/30/12 10:40	

LABORATORY CONTROL SAMPLE: 861199

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4,5-Tetrachlorobenzene	ug/L	50	42.9	86	17-115	
1,2,4-Trichlorobenzene	ug/L	50	32.2	64	10-110	
1,2-Dichlorobenzene	ug/L	50	33.8	68	10-110	
1,2-Diphenylhydrazine	ug/L	50	45.3	91	17-115	
1,3,5-Trinitrobenzene	ug/L	50	47.6	95	17-115	
1,3-Dichlorobenzene	ug/L	50	32.5	65	10-110	
1,3-Dinitrobenzene	ug/L	50	49.2	98	17-115	
1,4-Dichlorobenzene	ug/L	50	33.0	66	10-110	
1,4-Dinitrobenzene	ug/L	50	50.6	101	17-115	
1,4-Naphthoquinone	ug/L	50	30.3	61	17-115	
1-Methylnaphthalene	ug/L	50	35.2	70	21-110	
1-Naphthalenamine	ug/L	50	24.7	49	17-115	
2,2'-Oxybis(1-chloropropane)	ug/L	50	33.2	66	10-108	
2,3,4,6-Tetrachlorophenol	ug/L	50	103	207	17-115	L3
2,3-Dibromo-1-propanol phosph	ug/L	200	213	106	17-115	
2,3-Dichloroaniline	ug/L	50	59.6	119	17-115	L3
2,4,5-Trichlorophenol	ug/L	50	47.6	95	23-116	
2,4,6-Trichlorophenol	ug/L	50	43.7	87	21-114	
2,4-Dichlorophenol	ug/L	50	34.3	69	22-120	
2,4-Dimethylphenol	ug/L	50	31.1	62	15-109	
2,4-Dinitrophenol	ug/L	250	240	96	10-103	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

LABORATORY CONTROL SAMPLE: 861199

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dinitrotoluene	ug/L	50	40.7	81	24-119	
2,6-Dichlorophenol	ug/L	50	52.7	105	17-115	
2,6-Dinitrotoluene	ug/L	50	40.8	82	25-116	
2,6-Toluene diisocyanate	ug/L	50	59.4	119	17-115	L3
2-Acetylaminofluorene	ug/L	50	51.5	103	17-115	
2-Chloronaphthalene	ug/L	50	47.7	95	18-110	
2-Chlorophenol	ug/L	50	35.1	70	10-104	
2-Methyl-5-nitroaniline	ug/L		50.0			
2-Methylnaphthalene	ug/L	50	34.6	69	16-110	
2-Methylphenol(o-Cresol)	ug/L	50	31.9	64	13-110	
2-Naphthalenamine	ug/L	50	20.7	41	17-115	
2-Nitroaniline	ug/L	100	91.7	92	20-117	
2-Nitrophenol	ug/L	50	33.0	66	16-108	
2-Picoline	ug/L	50	13.2	26	17-115	
3&4-Methylphenol(m&p Cresol)	ug/L	50	27.1	54	14-110	
3,3'-Dichlorobenzidine	ug/L	250	100	40	13-131	
3,3'-Dimethylbenzidine	ug/L	100	26.8	27	17-115	
3-Methylcholanthrene	ug/L	50	47.9	96	17-115	
3-Nitroaniline	ug/L	100	83.9	84	15-117	
4,4'-Methylene-bis(2-chloroani	ug/L	100	99.2	99	17-115	
4,6-Dinitro-2-methylphenol	ug/L	100	94.5	95	13-119	
4-Aminobiphenyl	ug/L	50	22.3	45	17-115	
4-Bromophenylphenyl ether	ug/L	50	47.7	95	23-120	
4-Chloro-3-methylphenol	ug/L	100	72.4	72	21-119	
4-Chloroaniline	ug/L	100	58.1	58	10-122	
4-Chlorophenylphenyl ether	ug/L	50	48.0	96	22-112	
4-Nitroaniline	ug/L	100	97.8	98	14-118	
4-Nitrophenol	ug/L	250	116	47	10-110	
4-Nitroquinoline-n-oxide	ug/L	100	58.4	58	17-115	
5-Nitro-o-toluidine	ug/L	50	50.0	100	17-115	
7,12-Dimethylbenz(a)anthracene	ug/L	50	28.6	57	50-150	
a,a-Dimethylphenylethylamine	ug/L	50	14.4J	29	17-115	
Acenaphthene	ug/L	50	46.7	93	20-105	
Acenaphthylene	ug/L	50	45.2	90	23-106	
Acetophenone	ug/L	50	41.4	83	17-115	
Aniline	ug/L	50	25.3	51	10-110	
Anthracene	ug/L	50	48.1	96	25-120	
Aramite	ug/L	100	53.4J	53	17-115	
Atrazine	ug/L	50	54.8	110	17-115	
Benzal chloride	ug/L		26.6J			
Benzaldehyde	ug/L	50	26.5	53	17-115	
Benzidine	ug/L	250	ND	1	17-115	L2
Benzo(a)anthracene	ug/L	50	51.2	102	21-128	
Benzo(a)pyrene	ug/L	50	54.4	109	25-116	
Benzo(b)fluoranthene	ug/L	50	54.8	110	23-117	
Benzo(g,h,i)perylene	ug/L	50	53.0	106	17-128	
Benzo(k)fluoranthene	ug/L	50	54.0	108	25-127	
Benzoic Acid	ug/L	250	62.0	25	10-110	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

LABORATORY CONTROL SAMPLE: 861199

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzophenone	ug/L	50	48.3	97	17-115	
Benzyl alcohol	ug/L	100	63.1	63	10-101	
Biphenyl (Diphenyl)	ug/L	50	44.6	89	17-115	
bis(2-Chloroethoxy)methane	ug/L	50	44.6	89	19-107	
bis(2-Chloroethyl) ether	ug/L	50	40.7	81	10-108	
bis(2-Chloroisopropyl) ether	ug/L	50	33.2	66	10-108	
bis(2-Ethylhexyl)phthalate	ug/L	50	45.2	90	16-123	
Butylbenzylphthalate	ug/L	50	46.8	94	20-118	
Caprolactam	ug/L	50	13.1	26	17-115	
Carbazole	ug/L	50	47.9	96	17-115	
Chlorobenzilate	ug/L	50	52.1	104	17-115	
Chrysene	ug/L	50	51.0	102	24-125	
Di-n-butylphthalate	ug/L	50	45.0	90	23-115	
Di-n-octylphthalate	ug/L	50	43.8	88	20-115	
Diallate	ug/L	50	47.1	94	17-115	
Dibenz(a,h)anthracene	ug/L	50	53.5	107	18-131	
Dibenzo(a,e)pyrene	ug/L	50	34.3J	69	17-115	
Dibenzofuran	ug/L	50	47.5	95	23-106	
Diethylphthalate	ug/L	50	44.9	90	24-115	
Dimethoate	ug/L	50	38.5	77	17-115	
Dimethylphthalate	ug/L	50	43.4	87	22-113	
Dinoseb	ug/L	50	60.2	120	17-115	L3
Diphenyl ether (Phenyl ether)	ug/L	50	45.4	91	17-115	
Diphenylamine	ug/L	50	47.9	96	17-115	
Disulfoton	ug/L	50	44.2	88	17-115	
Ethyl methanesulfonate	ug/L	50	41.0	82	17-115	
Famphur	ug/L	100	97.7	98	17-115	
Fluoranthene	ug/L	50	52.8	106	24-125	
Fluorene	ug/L	50	47.5	95	24-114	
Hexachloro-1,3-butadiene	ug/L	50	30.0	60	10-110	
Hexachlorobenzene	ug/L	50	47.4	95	22-127	
Hexachlorocyclopentadiene	ug/L	50	46.0	92	10-110	
Hexachloroethane	ug/L	50	35.6	71	10-110	
Hexachlorophene	ug/L	500	150	30	17-115	
Hexachloropropene	ug/L	50	38.6	77	17-115	
Indeno(1,2,3-cd)pyrene	ug/L	50	53.7	107	18-130	
Isodrin	ug/L	50	53.0	106	17-115	
Isophorone	ug/L	50	28.0	56	23-114	
Isosafrole	ug/L	50	42.2	84	17-115	
Kepone	ug/L	100	55.8	56	17-115	
Methapyrilene	ug/L	50	16.2J	32	17-115	
Methyl methanesulfonate	ug/L	50	34.6	69	17-115	
Methyl parathion	ug/L	50	44.6	89	17-115	
n-Decane	ug/L	50	23.2	46	17-115	
N-Nitroso-di-n-butylamine	ug/L	50	38.2	76	17-115	
N-Nitroso-di-n-propylamine	ug/L	50	44.1	88	21-114	
N-Nitrosodiethylamine	ug/L	50	35.8	72	17-115	
N-Nitrosodimethylamine	ug/L	50	23.1	46	10-110	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

LABORATORY CONTROL SAMPLE: 861199

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
N-Nitrosodiphenylamine	ug/L	50	47.9	96	24-123	
N-Nitrosomethylethylamine	ug/L	50	35.3	71	17-115	
N-Nitrosomorpholine	ug/L	50	38.0	76	17-115	
N-Nitrosopiperidine	ug/L	50	46.2	92	17-115	
N-Nitrosopyrrolidine	ug/L	50	38.6	77	17-115	
n-Octadecane	ug/L	50	39.6	79	17-115	
Naphthalene	ug/L	50	33.7	67	14-110	
Nitrobenzene	ug/L	50	27.5	55	16-106	
O,O,O-Triethylphosphorothioate	ug/L	50	37.2	74	17-115	
O-Toluidine	ug/L	50	33.0	66	17-115	
P-Dimethylaminoazobenzene	ug/L	100	50.1	50	17-115	
p-Phenylenediamine	ug/L	50	51.8	104	17-115	
Parathion (Ethyl parathion)	ug/L	50	43.5	87	17-115	
Pentachlorobenzene	ug/L	50	48.1	96	17-115	
Pentachloroethane	ug/L	50	41.1	82	17-115	
Pentachloronitrobenzene	ug/L	50	52.1	104	17-115	
Pentachlorophenol	ug/L	250	94.6	38	10-123	
Phenacetin	ug/L	50	49.5	99	17-115	
Phenanthrene	ug/L	50	47.7	95	25-119	
Phenol	ug/L	50	17.4	35	10-110	
Phorate	ug/L	50	47.6	95	17-115	
Phthalic anhydride	ug/L	50	30.1J	60	17-115	
Pronamide	ug/L	50	61.2	122	17-115	L3
Pyrene	ug/L	50	49.5	99	22-127	
Pyridine	ug/L	50	13.4	27	17-115	
Safrole	ug/L	50	43.7	87	17-115	
Sulfotepp (Thiodiphosphoric Ac	ug/L	50	55.1	110	17-115	
Terpineol	ug/L	50	37.2	74	17-115	
Thionazin	ug/L	50	51.4	103	17-115	
2,4,6-Tribromophenol (S)	%			95	27-110	
2-Fluorobiphenyl (S)	%			83	27-110	
2-Fluorophenol (S)	%			41	12-110	
Nitrobenzene-d5 (S)	%			64	21-110	
Phenol-d6 (S)	%			27	10-110	
Terphenyl-d14 (S)	%			102	31-107	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 861200 861201

Parameter	Units	92136280001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4,5-Tetrachlorobenzene	ug/L	ND	100	100	72.2	66.1	72	66	50-150	9	30	
1,2,4-Trichlorobenzene	ug/L	ND	100	100	57.4	56.2	57	56	10-110	2	30	
1,2-Dichlorobenzene	ug/L	ND	100	100	58.7	58.3	59	58	10-110	1	30	
1,2-Diphenylhydrazine	ug/L	ND	100	100	82.8	86.6	83	87	50-150	5	30	
1,3,5-Trinitrobenzene	ug/L	ND	100	100	90.2	91.0	90	91	50-150	1	30	
1,3-Dichlorobenzene	ug/L	ND	100	100	57.4	55.6	57	56	10-110	3	30	
1,3-Dinitrobenzene	ug/L	ND	100	100	92.5	88.8	93	89	50-150	4	30	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 861200 861201

Parameter	Units	92136280001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dichlorobenzene	ug/L	3.0J	100	100	56.9	57.1	54	54	10-110	0	30	
1,4-Dinitrobenzene	ug/L	ND	100	100	94.5	94.2	95	94	50-150	0	30	
1,4-Naphthoquinone	ug/L	ND	100	100	64.6	74.5	65	75	50-150	14	30	
1-Methylnaphthalene	ug/L	ND	100	100	59.0	56.2	59	56	14-110	5	30	
1-Naphthalenamine	ug/L	ND	100	100	44.3	27.4	44	27	50-150	47	30	M0, M1, R1
2,2'-Oxybis(1-chloropropane)	ug/L	ND	100	100	51.6	50.7	52	51	50-150	2	30	
2,3,4,6-Tetrachlorophenol	ug/L	ND	100	100	194	194	194	194	50-150	0	30	M0
2,3-Dibromo-1-propanol phosph	ug/L	ND	400	400	385	400	96	100	50-150	4	30	
2,3-Dichloroaniline	ug/L	ND	100	100	109	102	109	102	50-150	7	30	
2,4,5-Trichlorophenol	ug/L	ND	100	100	84.3	84.3	84	84	19-105	0	30	
2,4,6-Trichlorophenol	ug/L	ND	100	100	76.4	75.4	76	75	13-108	1	30	
2,4-Dichlorophenol	ug/L	ND	100	100	56.1	53.4	56	53	29-111	5	30	
2,4-Dimethylphenol	ug/L	ND	100	100	54.0	52.4	54	52	21-103	3	30	
2,4-Dinitrophenol	ug/L	ND	500	500	454	451	91	90	10-109	1	30	
2,4-Dinitrotoluene	ug/L	ND	100	100	77.1	77.9	77	78	27-104	1	30	
2,6-Dichlorophenol	ug/L	ND	100	100	88.0	81.5	88	82	50-150	8	30	
2,6-Dinitrotoluene	ug/L	ND	100	100	75.4	75.8	75	76	28-101	1	30	
2,6-Toluene diisocyanate	ug/L	ND	100	100	113	113	113	113	50-150	0	30	
2-Acetylaminofluorene	ug/L	ND	100	100	99.2	95.7	99	96	50-150	4	30	
2-Chloronaphthalene	ug/L	ND	100	100	78.9	73.8	79	74	14-102	7	30	
2-Chlorophenol	ug/L	ND	100	100	58.1	56.1	58	56	16-110	4	30	
2-Methyl-5-nitroaniline	ug/L	ND			98.0	97.3				1	30	
2-Methylnaphthalene	ug/L	ND	100	100	59.6	55.7	60	56	13-110	7	30	
2-Methylphenol(o-Cresol)	ug/L	ND	100	100	57.5	52.2	57	52	19-110	10	30	
2-Naphthalenamine	ug/L	ND	100	100	33.0	13.5	33	13	50-150	84	30	M0, M1, R1
2-Nitroaniline	ug/L	ND	200	200	169	173	85	86	26-103	2	30	
2-Nitrophenol	ug/L	ND	100	100	56.0	53.4	56	53	20-110	5	30	
2-Picoline	ug/L	ND	100	100	34.9	24.5	35	25	50-150	35	30	M0, M1, R1
3&4-Methylphenol(m&p Cresol)	ug/L	ND	100	100	49.4	49.3	49	49	20-110	0	30	
3,3'-Dichlorobenzidine	ug/L	ND	500	500	184	170	37	34	25-112	8	30	
3,3'-Dimethylbenzidine	ug/L	ND	200	200	29.5	ND	15	4	50-150		30	M0, M1
3-Methylcholanthrene	ug/L	ND	100	100	92.0	92.6	92	93	50-150	1	30	
3-Nitroaniline	ug/L	ND	200	200	169	165	85	82	29-110	3	30	
4,4'-Methylene-bis(2-chloroani	ug/L	ND	200	200	177	155	88	77	50-150	13	30	
4,6-Dinitro-2-methylphenol	ug/L	ND	200	200	176	182	88	91	10-117	3	30	
4-Aminobiphenyl	ug/L	ND	100	100	35.9	32.6	36	33	50-150	10	30	M0, M1
4-Bromophenylphenyl ether	ug/L	ND	100	100	87.8	92.2	88	92	20-105	5	30	
4-Chloro-3-methylphenol	ug/L	ND	200	200	137	139	69	70	22-110	2	30	
4-Chloroaniline	ug/L	ND	200	200	107	95.8	54	48	20-100	11	30	
4-Chlorophenylphenyl ether	ug/L	ND	100	100	85.1	87.3	85	87	19-102	3	30	
4-Nitroaniline	ug/L	ND	200	200	197	188	98	94	29-110	5	30	
4-Nitrophenol	ug/L	ND	500	500	320	336	64	67	10-110	5	30	
4-Nitroquinoline-n-oxide	ug/L	ND	200	200	114	115	57	58	50-150	1	30	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 861200 861201

Parameter	Units	92136280001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
5-Nitro-o-toluidine	ug/L	ND	100	100	98.0	97.3	98	97	50-150	1	30	
7,12-Dimethylbenz(a)anthracene	ug/L	ND	100	100	45.3	24.9	45	25	50-150	58	30	M0, M1, R1
a,a-Dimethylphenylethylamine	ug/L	ND	100	100	30.1J	29.1J	30	29	50-150		30	M0, M1
Acenaphthene	ug/L	ND	100	100	79.9	78.3	80	78	17-100	2	30	
Acenaphthylene	ug/L	ND	100	100	75.9	73.6	76	74	21-100	3	30	
Acetophenone	ug/L	ND	100	100	64.0	62.0	64	62	50-150	3	30	
Aniline	ug/L	ND	100	100	49.6	41.8	50	42	10-110	17	30	
Anthracene	ug/L	ND	100	100	90.0	92.7	90	93	24-109	3	30	
Aramite	ug/L	ND	200	200	101J	109J	51	54	50-150		30	
Atrazine	ug/L	ND	100	100	100	105	100	105	50-150	5	30	
Benzal chloride	ug/L	ND			48.2J	40.3J					30	
Benzaldehyde	ug/L	ND	100	100	ND	ND	19	19	50-150		30	M0, M1
Benzidine	ug/L	ND	500	500	ND	ND	0	0	50-150		30	M0
Benzo(a)anthracene	ug/L	ND	100	100	96.7	101	97	101	22-117	4	30	
Benzo(a)pyrene	ug/L	ND	100	100	101	105	101	105	23-104	4	30	M0, M1
Benzo(b)fluoranthene	ug/L	ND	100	100	102	104	102	104	23-103	2	30	M0, M1
Benzo(g,h,i)perylene	ug/L	ND	100	100	101	104	101	104	18-111	3	30	
Benzo(k)fluoranthene	ug/L	ND	100	100	96.9	106	97	106	22-113	9	30	
Benzoic Acid	ug/L	ND	500	500	161	173	32	35	10-110	7	30	
Benzophenone	ug/L	ND	100	100	89.7	90.2	90	90	50-150	0	30	
Benzyl alcohol	ug/L	ND	200	200	116	109	58	54	19-101	6	30	
Biphenyl (Diphenyl)	ug/L	ND	100	100	72.7	68.7	73	69	50-150	6	30	
bis(2-Chloroethoxy)methane	ug/L	ND	100	100	73.5	69.7	74	70	22-110	5	30	
bis(2-Chloroethyl) ether	ug/L	ND	100	100	65.5	65.5	65	65	16-110	0	30	
bis(2-Chloroisopropyl) ether	ug/L	ND	100	100	51.6	50.7	52	51	14-110	2	30	
bis(2-Ethylhexyl)phthalate	ug/L	ND	100	100	84.6	93.8	85	94	23-102	10	30	
Butylbenzylphthalate	ug/L	ND	100	100	87.0	94.5	87	95	25-110	8	30	
Caprolactam	ug/L	ND	100	100	46.3	48.6	46	49	50-150	5	30	M0, M1
Carbazole	ug/L	ND	100	100	91.6	91.1	92	91	50-150	1	30	
Chlorobenzilate	ug/L	ND	100	100	100	104	100	104	50-150	3	30	
Chrysene	ug/L	ND	100	100	95.5	99.5	96	99	23-115	4	30	
Di-n-butylphthalate	ug/L	ND	100	100	84.0	88.8	84	89	26-110	6	30	
Di-n-octylphthalate	ug/L	ND	100	100	80.7	89.8	81	90	22-110	11	30	
Diallate	ug/L	ND	100	100	87.1	91.7	87	92	50-150	5	30	
Dibenz(a,h)anthracene	ug/L	ND	100	100	100	105	100	105	21-112	5	30	
Dibenzo(a,e)pyrene	ug/L	ND	100	100	71.4J	69.4J	71	69	50-150		30	
Dibenzofuran	ug/L	ND	100	100	84.0	82.2	84	82	19-102	2	30	
Diethylphthalate	ug/L	ND	100	100	84.6	86.4	85	86	29-110	2	30	
Dimethoate	ug/L	ND	100	100	78.8	78.1	79	78	50-150	1	30	
Dimethylphthalate	ug/L	ND	100	100	80.0	82.8	80	83	27-110	3	30	
Dinoseb	ug/L	ND	100	100	112	113	112	113	50-150	1	30	
Diphenyl ether (Phenyl ether)	ug/L	ND	100	100	74.0	68.7	74	69	50-150	7	30	
Diphenylamine	ug/L	ND	100	100	89.0	91.2	89	91	50-150	2	30	
Disulfoton	ug/L	ND	100	100	83.9	83.7	84	84	50-150	0	30	
Ethyl methanesulfonate	ug/L	ND	100	100	68.6	63.5	69	64	50-150	8	30	
Famphur	ug/L	ND	200	200	177	203	88	101	50-150	14	30	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 861200 861201

Parameter	Units	92136280001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoranthene	ug/L	ND	100	100	102	103	102	103	23-112	1	30	
Fluorene	ug/L	ND	100	100	86.3	87.4	86	87	22-104	1	30	
Hexachloro-1,3-butadiene	ug/L	ND	100	100	57.1	54.6	57	55	10-110	4	30	
Hexachlorobenzene	ug/L	ND	100	100	89.3	92.2	89	92	21-116	3	30	
Hexachlorocyclopentadiene	ug/L	ND	100	100	79.7	73.1	80	73	10-110	9	30	
Hexachloroethane	ug/L	ND	100	100	64.9	62.0	65	62	10-110	5	30	
Hexachlorophene	ug/L	ND	1000	1000	301	286	30	29	50-150	5	30	M0,M1
Hexachloropropene	ug/L	ND	100	100	74.1	68.8	74	69	50-150	7	30	
Indeno(1,2,3-cd)pyrene	ug/L	ND	100	100	102	106	102	106	20-113	4	30	
Isodrin	ug/L	ND	100	100	102	103	102	103	50-150	1	30	
Isophorone	ug/L	ND	100	100	45.5	43.5	45	44	50-150	4	30	M0,M1
Isosafrole	ug/L	ND	100	100	69.2	66.5	69	66	50-150	4	30	
Kepone	ug/L	ND	200	200	94.8	123	47	61	50-150	26	30	M0,M1
Methapyrilene	ug/L	ND	100	100	43.5J	26.3J	44	26	50-150		30	M0,M1
Methyl methanesulfonate	ug/L	ND	100	100	69.5	64.6	69	65	50-150	7	30	
Methyl parathion	ug/L	ND	100	100	84.3	83.9	84	84	50-150	1	30	
n-Decane	ug/L	ND	100	100	41.3	41.8	41	42	50-150	1	30	M0,M1
N-Nitroso-di-n-butylamine	ug/L	ND	100	100	70.9	67.5	71	67	50-150	5	30	
N-Nitroso-di-n-propylamine	ug/L	ND	100	100	65.2	61.8	65	62	21-105	5	30	
N-Nitrosodiethylamine	ug/L	ND	100	100	59.0	56.0	59	56	50-150	5	30	
N-Nitrosodimethylamine	ug/L	ND	100	100	52.1	52.6	52	53	10-110	1	30	
N-Nitrosodiphenylamine	ug/L	ND	100	100	89.0	91.2	89	91	23-107	2	30	
N-Nitrosomethylethylamine	ug/L	ND	100	100	61.3	59.5	61	59	50-150	3	30	
N-Nitrosomorpholine	ug/L	ND	100	100	66.5	62.7	66	63	50-150	6	30	
N-Nitrosopiperidine	ug/L	ND	100	100	77.1	71.4	77	71	50-150	8	30	
N-Nitrosopyrrolidine	ug/L	ND	100	100	66.8	59.3	67	59	50-150	12	30	
n-Octadecane	ug/L	ND	100	100	69.3	73.5	69	74	50-150	6	30	
Naphthalene	ug/L	ND	100	100	59.3	56.4	59	56	10-110	5	30	
Nitrobenzene	ug/L	ND	100	100	45.9	44.4	46	44	20-110	3	30	
O,O,O-Triethylphosphorothioate	ug/L	ND	100	100	64.0	58.8	64	59	50-150	8	30	
O-Toluidine	ug/L	ND	100	100	58.2	50.6	58	51	50-150	14	30	
P-Dimethylaminoazobenzene	ug/L	ND	200	200	91.8	91.0	46	45	50-150	1	30	M0,M1
p-Phenylenediamine	ug/L	ND	100	100	106	102	106	102	50-150	4	30	
Parathion (Ethyl parathion)	ug/L	ND	100	100	83.6	85.2	84	85	50-150	2	30	
Pentachlorobenzene	ug/L	ND	100	100	85.5	82.0	85	82	50-150	4	30	
Pentachloroethane	ug/L	ND	100	100	70.0	66.9	70	67	50-150	5	30	
Pentachloronitrobenzene	ug/L	ND	100	100	97.1	98.3	97	98	50-150	1	30	
Pentachlorophenol	ug/L	ND	500	500	178	184	36	37	10-118	3	30	
Phenacetin	ug/L	ND	100	100	99.7	96.2	100	96	50-150	4	30	
Phenanthrene	ug/L	ND	100	100	90.8	93.0	91	93	24-106	2	30	
Phenol	ug/L	ND	100	100	39.4	38.7	39	39	12-110	2	30	
Phorate	ug/L	ND	100	100	90.2	91.0	90	91	50-150	1	30	
Phthalic anhydride	ug/L	ND	100	100	66.5J	79.5J	67	80	50-150		30	
Pronamide	ug/L	ND	100	100	116	117	116	117	50-150	1	30	
Pyrene	ug/L	ND	100	100	94.0	100	94	100	24-114	7	30	
Pyridine	ug/L	ND	100	100	33.8	31.4	34	31	50-150	7	30	M0,M1

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 861200 861201

Parameter	Units	92136280001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Safrole	ug/L	ND	100	100	72.2	66.6	72	67	50-150	8	30	
Sulfotepp (Thiodiphosphoric Ac	ug/L	ND	100	100	102	111	102	111	50-150	8	30	
Terpineol	ug/L	ND	100	100	63.2	57.3	63	57	50-150	10	30	
Thionazin	ug/L	ND	100	100	98.2	95.7	98	96	50-150	3	30	
2,4,6-Tribromophenol (S)	%						88	90	27-110			
2-Fluorobiphenyl (S)	%						65	61	27-110			
2-Fluorophenol (S)	%						41	40	12-110			
Nitrobenzene-d5 (S)	%						53	52	21-110			
Phenol-d6 (S)	%						31	30	10-110			
Terphenyl-d14 (S)	%						93	101	31-107			

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

QC Batch: WET/22943 | Analysis Method: SM 2320B
QC Batch Method: SM 2320B | Analysis Description: 2320B Alkalinity
Associated Lab Samples: 92136280001, 92136280002

METHOD BLANK: 863492 | Matrix: Water
Associated Lab Samples: 92136280001, 92136280002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	10/31/12 17:15	

LABORATORY CONTROL SAMPLE: 863493

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	47.5	95	90-110	

MATRIX SPIKE SAMPLE: 863534

Parameter	Units	92136834001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	41.4	50	79.1	75		

MATRIX SPIKE SAMPLE: 864110

Parameter	Units	92136235012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	2.4J	50	46.7	89		

SAMPLE DUPLICATE: 863533

Parameter	Units	92136834001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	41.4	41.8	1	20	

SAMPLE DUPLICATE: 864109

Parameter	Units	92136235012 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	2.4J	2.2J		20	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

QC Batch: WET/22994 — Analysis Method: SM 2320B
QC Batch Method: SM 2320B — Analysis Description: 2320B Alkalinity
Associated Lab Samples: 92136280004, 92136280005, 92136280006, 92136280007, 92136280011

METHOD BLANK: 865587 — Matrix: Water
Associated Lab Samples: 92136280004, 92136280005, 92136280006, 92136280007, 92136280011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	11/02/12 16:58	

LABORATORY CONTROL SAMPLE: 865588

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	46.5	93	90-110	

MATRIX SPIKE SAMPLE: 865590

Parameter	Units	92136280005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	87.5	50	130	85		

MATRIX SPIKE SAMPLE: 865592

Parameter	Units	92136379005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	67700 ug/L	50	111	87		

SAMPLE DUPLICATE: 865589

Parameter	Units	92136280005 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	87.5	87.2	0	20	

SAMPLE DUPLICATE: 865591

Parameter	Units	92136379005 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	67700 ug/L	67.7	0	20	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

QC Batch: WET/22941 Analysis Method: SM 3500-Fe D#4
QC Batch Method: SM 3500-Fe D#4 Analysis Description: Iron, Ferrous
Associated Lab Samples: 92136280001, 92136280002, 92136280005, 92136280006, 92136280007

METHOD BLANK: 863190 Matrix: Water
Associated Lab Samples: 92136280001, 92136280002, 92136280005, 92136280006, 92136280007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.50	10/31/12 08:53	N2

LABORATORY CONTROL SAMPLE: 863191

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1.5	1.5	103	90-110	N2

SAMPLE DUPLICATE: 863192

Parameter	Units	92135923003 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	ND	ND		20	N2

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

QC Batch: WET/22942 | Analysis Method: SM 3500-Fe D#4
QC Batch Method: SM 3500-Fe D#4 | Analysis Description: Iron, Ferrous
Associated Lab Samples: 92136280004, 92136280011

METHOD BLANK: 863193 | Matrix: Water
Associated Lab Samples: 92136280004, 92136280011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.50	10/31/12 09:26	N2

LABORATORY CONTROL SAMPLE: 863194

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1.5	1.6	103	90-110	N2

SAMPLE DUPLICATE: 863195

Parameter	Units	92136280004 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	ND	ND		20	N2

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

QC Batch: WET/22923 — Analysis Method: SM 4500-S2D
QC Batch Method: SM 4500-S2D — Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92136280001, 92136280002, 92136280004, 92136280005, 92136280006, 92136280007, 92136280008, 92136280009, 92136280011

METHOD BLANK: 862399 — Matrix: Water
Associated Lab Samples: 92136280001, 92136280002, 92136280004, 92136280005, 92136280006, 92136280007, 92136280008, 92136280009, 92136280011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	10/30/12 16:40	

LABORATORY CONTROL SAMPLE: 862400

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	.5	0.50	100	90-110	

MATRIX SPIKE SAMPLE: 862401

Parameter	Units	92136183002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	ND	.5	0.46	91	75-125	

SAMPLE DUPLICATE: 862402

Parameter	Units	92136183002 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

QC Batch: WET/22879 | Analysis Method: SM 5210B
QC Batch Method: SM 5210B | Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 92136280001

METHOD BLANK: 859345 | Matrix: Water
Associated Lab Samples: 92136280001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	10/29/12 12:45	

LABORATORY CONTROL SAMPLE: 859346

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	191	96	84.5-115.4	

SAMPLE DUPLICATE: 859347

Parameter	Units	92136271001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	19900	17500	13	20	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

QC Batch: WET/22882
QC Batch Method: SM 5210B
Analysis Method: SM 5210B
Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 92136280002

METHOD BLANK: 859528
Matrix: Water
Associated Lab Samples: 92136280002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	10/29/12 20:10	

LABORATORY CONTROL SAMPLE: 859529

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	327	165	84.5-115.4	B4

SAMPLE DUPLICATE: 859530

Parameter	Units	92136379002 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

QC Batch: WET/22888 Analysis Method: SM 5210B
QC Batch Method: SM 5210B Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 92136280004, 92136280005, 92136280006, 92136280007

METHOD BLANK: 859867 Matrix: Water
Associated Lab Samples: 92136280004, 92136280005, 92136280006, 92136280007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	10/30/12 09:30	

LABORATORY CONTROL SAMPLE: 859868

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	222	112	84.5-115.4	

SAMPLE DUPLICATE: 859869

Parameter	Units	92136280005 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

QC Batch: WET/22898
QC Batch Method: SM 5210B
Analysis Method: SM 5210B
Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 92136280011

METHOD BLANK: 860479
Matrix: Water
Associated Lab Samples: 92136280011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	10/30/12 21:10	B4

LABORATORY CONTROL SAMPLE: 860480

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	340	172	84.5-115.4	B4

SAMPLE DUPLICATE: 860481

Parameter	Units	92136379006 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	ND	ND		20	B2,B4

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

QC Batch: WETA/13634 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 92136280001, 92136280002, 92136280004, 92136280005, 92136280006, 92136280007

METHOD BLANK: 864418 Matrix: Water
Associated Lab Samples: 92136280001, 92136280002, 92136280004, 92136280005, 92136280006, 92136280007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	2.0	11/01/12 19:46	

LABORATORY CONTROL SAMPLE: 864419

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	18.6	93	90-110	

MATRIX SPIKE SAMPLE: 864420

Parameter	Units	92136235016 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	6.2	20	26.6	102	90-110	

MATRIX SPIKE SAMPLE: 864422

Parameter	Units	92136192008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	3260J ug/L	20	26.6	117	90-110	M1

SAMPLE DUPLICATE: 864421

Parameter	Units	92136235016 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	mg/L	6.2	6.3	3	20	

SAMPLE DUPLICATE: 864423

Parameter	Units	92136192008 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	mg/L	3260J ug/L	3.3	2	20	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

QC Batch: WETA/13650
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Associated Lab Samples: 92136280011

METHOD BLANK: 865373
Matrix: Water
Associated Lab Samples: 92136280011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	2.0	11/07/12 21:25	

LABORATORY CONTROL SAMPLE: 865374

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	18.6	93	90-110	

MATRIX SPIKE SAMPLE: 865375

Parameter	Units	92136379006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	2180J ug/L	20	30.9	143	90-110	M1

MATRIX SPIKE SAMPLE: 865377

Parameter	Units	92136561003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	114000J ug/L	20	229	573	90-110	M6

SAMPLE DUPLICATE: 865376

Parameter	Units	92136379006 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	mg/L	2180J ug/L	2.2	0	20	

SAMPLE DUPLICATE: 865378

Parameter	Units	92136561003 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	mg/L	114000J ug/L	116	1	20	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

QC Batch: WETA/13566
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 92136280001, 92136280002

METHOD BLANK: 859522
Matrix: Water
Associated Lab Samples: 92136280001, 92136280002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.020	10/24/12 23:30	

LABORATORY CONTROL SAMPLE: 859523

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2.5	2.5	99	90-110	

MATRIX SPIKE SAMPLE: 859524

Parameter	Units	92135714029 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.37	2.5	2.9	100	90-110	

MATRIX SPIKE SAMPLE: 859527

Parameter	Units	92136280002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.032	2.5	2.2	88	90-110	M1

SAMPLE DUPLICATE: 859525

Parameter	Units	92136192006 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.027		20	

SAMPLE DUPLICATE: 859526

Parameter	Units	92135714018 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	2.3	2.3	0	20	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

QC Batch: WETA/13570 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 92136280004, 92136280005, 92136280006, 92136280007

METHOD BLANK: 859862 Matrix: Water
Associated Lab Samples: 92136280004, 92136280005, 92136280006, 92136280007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.020	10/25/12 13:18	

LABORATORY CONTROL SAMPLE: 859863

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2.5	2.5	100	90-110	

MATRIX SPIKE SAMPLE: 859864

Parameter	Units	92136280005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.56	2.5	3.2	106	90-110	

MATRIX SPIKE SAMPLE: 859948

Parameter	Units	92136436001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.47	2.5	2.9	98	90-110	

SAMPLE DUPLICATE: 859865

Parameter	Units	92136280006 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	4.0	3.9	0	20	

SAMPLE DUPLICATE: 859949

Parameter	Units	92136436002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.98	1.0	5	20	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

QC Batch: WETA/13573
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 92136280011

METHOD BLANK: 860468
Matrix: Water
Associated Lab Samples: 92136280011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.020	10/25/12 23:32	

LABORATORY CONTROL SAMPLE: 860469

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2.5	2.5	100	90-110	

MATRIX SPIKE SAMPLE: 860470

Parameter	Units	92136398001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.5	2.5	4.0	101	90-110	

MATRIX SPIKE SAMPLE: 860473

Parameter	Units	92136280011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	ND	2.5	2.6	103	90-110	

SAMPLE DUPLICATE: 860471

Parameter	Units	92136398007 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 860472

Parameter	Units	92136415001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	1.7	1.7	0	20	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

QC Batch: WETA/13680 | Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E | Analysis Description: 4500 Chloride
Associated Lab Samples: 92136280001, 92136280002

METHOD BLANK: 867238 | Matrix: Water
Associated Lab Samples: 92136280001, 92136280002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	11/06/12 20:49	

LABORATORY CONTROL SAMPLE: 867239

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	19.8	99	90-110	

MATRIX SPIKE SAMPLE: 867240

Parameter	Units	92136235012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	35.2	20	55.8	103	75-125	

SAMPLE DUPLICATE: 867241

Parameter	Units	92136235012 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	mg/L	35.2	33.3	5	20	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

QC Batch: WETA/13681
QC Batch Method: SM 4500-Cl-E
Analysis Method: SM 4500-Cl-E
Analysis Description: 4500 Chloride
Associated Lab Samples: 92136280004

METHOD BLANK: 867243
Matrix: Water
Associated Lab Samples: 92136280004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	11/06/12 21:06	

LABORATORY CONTROL SAMPLE: 867244

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	19.9	100	90-110	

MATRIX SPIKE SAMPLE: 867245

Parameter	Units	92135714028 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	20	21.9	97	75-125	

SAMPLE DUPLICATE: 867246

Parameter	Units	92135714028 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	mg/L	2.5	2.2	15	20	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

QC Batch: WETA/13701 — Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E — Analysis Description: 4500 Chloride
Associated Lab Samples: 92136280005, 92136280006, 92136280007, 92136280011

METHOD BLANK: 869194 — Matrix: Water
Associated Lab Samples: 92136280005, 92136280006, 92136280007, 92136280011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	11/08/12 19:31	

LABORATORY CONTROL SAMPLE: 869195

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.0	100	90-110	

MATRIX SPIKE SAMPLE: 869196

Parameter	Units	92136280005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50.6	20	70.2	98	75-125	

SAMPLE DUPLICATE: 869197

Parameter	Units	92136280005 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	mg/L	50.6	50.2	1	20	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

QC Batch: WETA/13645 | Analysis Method: SM 4500-CN-E
QC Batch Method: SM 4500-CN-E | Analysis Description: 4500CNE Cyanide, Total
Associated Lab Samples: 92136280001, 92136280002

METHOD BLANK: 865027 | Matrix: Water
Associated Lab Samples: 92136280001, 92136280002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	ND	0.0050	11/02/12 15:06	

LABORATORY CONTROL SAMPLE: 865028

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.093	93	80-120	

MATRIX SPIKE SAMPLE: 865029

Parameter	Units	92135980004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	ND	.1	0.040	38	75-125	M1

SAMPLE DUPLICATE: 865030

Parameter	Units	92135980004 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide	mg/L	ND	0.0060		20	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

QC Batch: WETA/13646 Analysis Method: SM 4500-CN-E
QC Batch Method: SM 4500-CN-E Analysis Description: 4500CNE Cyanide, Total
Associated Lab Samples: 92136280004, 92136280005, 92136280006, 92136280007, 92136280008, 92136280009

METHOD BLANK: 865075 Matrix: Water
Associated Lab Samples: 92136280004, 92136280005, 92136280006, 92136280007, 92136280008, 92136280009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	ND	0.0050	11/02/12 15:30	

LABORATORY CONTROL SAMPLE: 865076

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.10	103	80-120	

MATRIX SPIKE SAMPLE: 865077

Parameter	Units	92136358002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	ND	.1	ND	0	75-125	M1

SAMPLE DUPLICATE: 865078

Parameter	Units	92136363001 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide	mg/L	0.0089	0.012	29	20	D6

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

QC Batch: WETA/13647
QC Batch Method: SM 4500-CN-E
Analysis Method: SM 4500-CN-E
Analysis Description: 4500CNE Cyanide, Total
Associated Lab Samples: 92136280011

METHOD BLANK: 865079
Matrix: Water
Associated Lab Samples: 92136280011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	ND	0.0050	11/02/12 15:51	

LABORATORY CONTROL SAMPLE: 865080

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.11	106	80-120	

MATRIX SPIKE SAMPLE: 865081

Parameter	Units	92136434001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	ND	.1	0.10	103	75-125	

SAMPLE DUPLICATE: 865082

Parameter	Units	92136523001 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide	mg/L	0.0089	0.010	14	20	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

QC Batch: WETA/13687 | Analysis Method: SM 5220D
QC Batch Method: SM 5220D | Analysis Description: 5220D COD
Associated Lab Samples: 92136280001, 92136280002

METHOD BLANK: 868087 | Matrix: Water
Associated Lab Samples: 92136280001, 92136280002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	25.0	11/08/12 11:15	

LABORATORY CONTROL SAMPLE: 868088

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	750	777	104	90-110	

MATRIX SPIKE SAMPLE: 868089

Parameter	Units	92136932002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	20400	15000	53300	219	75-125	M1

MATRIX SPIKE SAMPLE: 868091

Parameter	Units	92136195014 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	860	1500	2410	103	75-125	

SAMPLE DUPLICATE: 868090

Parameter	Units	92136932002 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	20400	20000	2	20	

SAMPLE DUPLICATE: 868092

Parameter	Units	92136195014 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	860	996	15	20	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

QC Batch: WETA/13705 Analysis Method: SM 5220D
QC Batch Method: SM 5220D Analysis Description: 5220D COD
Associated Lab Samples: 92136280004, 92136280005, 92136280006, 92136280007, 92136280011

METHOD BLANK: 869349 Matrix: Water
Associated Lab Samples: 92136280004, 92136280005, 92136280006, 92136280007, 92136280011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	25.0	11/09/12 14:45	

LABORATORY CONTROL SAMPLE: 869350

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	750	780	104	90-110	

MATRIX SPIKE SAMPLE: 869351

Parameter	Units	92136280004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	ND	750	766	102	75-125	

MATRIX SPIKE SAMPLE: 869353

Parameter	Units	92136648001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	54000 ug/L	750	822	102	75-125	

SAMPLE DUPLICATE: 869352

Parameter	Units	92136280004 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 869354

Parameter	Units	92136648001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	54000 ug/L	49.0	10	20	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

QC Batch: WETA/13639 Analysis Method: SM 5310B
QC Batch Method: SM 5310B Analysis Description: 5310B TOC
Associated Lab Samples: 92136280001, 92136280002

METHOD BLANK: 864870 Matrix: Water
Associated Lab Samples: 92136280001, 92136280002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	11/01/12 20:28	

LABORATORY CONTROL SAMPLE: 864871

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	25	26.0	104	90-110	

MATRIX SPIKE SAMPLE: 864872

Parameter	Units	92136841001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	3.6	25	27.9	97	75-125	

MATRIX SPIKE SAMPLE: 864874

Parameter	Units	92136581005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	2.6	25	25.4	91	75-125	

SAMPLE DUPLICATE: 864875

Parameter	Units	92136581006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	2.1	2.0	6	20	

SAMPLE DUPLICATE: 865979

Parameter	Units	92136186003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	20.4	20.2	1	20	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

QC Batch: WETA/13672 Analysis Method: SM 5310B
QC Batch Method: SM 5310B Analysis Description: 5310B TOC
Associated Lab Samples: 92136280004, 92136280005, 92136280006, 92136280007

METHOD BLANK: 866887 Matrix: Water
Associated Lab Samples: 92136280004, 92136280005, 92136280006, 92136280007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	11/06/12 19:26	

LABORATORY CONTROL SAMPLE: 866888

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	25	24.8	99	90-110	

MATRIX SPIKE SAMPLE: 866889

Parameter	Units	92136192008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	6700 ug/L	25	29.1	90	75-125	

MATRIX SPIKE SAMPLE: 866891

Parameter	Units	92136398005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	28.3	25	51.7	94	75-125	

SAMPLE DUPLICATE: 866890

Parameter	Units	92136192009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	10600 ug/L	10.3	3	20	

SAMPLE DUPLICATE: 866892

Parameter	Units	92136398006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	33.3	32.9	1	20	

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QUALITY CONTROL DATA

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

QC Batch: WETA/13685
QC Batch Method: SM 5310B
Analysis Method: SM 5310B
Analysis Description: 5310B TOC
Associated Lab Samples: 92136280011

METHOD BLANK: 867736
Matrix: Water
Associated Lab Samples: 92136280011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	11/07/12 18:38	

LABORATORY CONTROL SAMPLE: 867737

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	25	25.0	100	90-110	

MATRIX SPIKE SAMPLE: 867738

Parameter	Units	92136379007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	1140 ug/L	25	26.8	103	75-125	

MATRIX SPIKE SAMPLE: 867740

Parameter	Units	92136894012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5.8	25	31.7	104	75-125	

SAMPLE DUPLICATE: 867739

Parameter	Units	92136379008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	2780 ug/L	2.7	2	20	

SAMPLE DUPLICATE: 867741

Parameter	Units	92137066001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	3.5	3.5	0	20	

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QUALIFIERS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte
PASI-M	Pace Analytical Services - Minneapolis
PASI-O	Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

B2	Oxygen usage is less than 2.0 for all dilutions set. The reported value is an estimated less than value and is calculated for the dilution using the most amount of sample.
B4	The glucose/glutamic acid standard exceeded the range of 198 plus or minus 30.5 mg/L.
C9	Common Laboratory Contaminant.
D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
F3	The recovery of the second source standard used to verify the initial calibration curve for this analyte is outside the laboratory's control limits. The result is estimated.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
N2	The lab does not hold TNI accreditation for this parameter.

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QUALIFIERS

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

ANALYTE QUALIFIERS

R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.
S5	Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92136280001	**MW-06**	RSK 175	AIR/16036		
92136280002	**MW-01**	RSK 175	AIR/16036		
92136280004	**MW-02**	RSK 175	AIR/16058		
92136280005	**MW-03**	RSK 175	AIR/16058		
92136280006	**MW-04**	RSK 175	AIR/16058		
92136280007	**MW-07**	RSK 175	AIR/16058		
92136280011	**MW-05R**	RSK 175	AIR/16058		
92136280001	**MW-06**	EPA 3510	OEXT/19469	EPA 8082	GCSV/13222
92136280002	**MW-01**	EPA 3510	OEXT/19469	EPA 8082	GCSV/13222
92136280004	**MW-02**	EPA 3510	OEXT/19469	EPA 8082	GCSV/13222
92136280005	**MW-03**	EPA 3510	OEXT/19469	EPA 8082	GCSV/13222
92136280006	**MW-04**	EPA 3510	OEXT/19469	EPA 8082	GCSV/13222
92136280007	**MW-07**	EPA 3510	OEXT/19469	EPA 8082	GCSV/13222
92136280008	**SW-01**	EPA 3510	OEXT/19469	EPA 8082	GCSV/13222
92136280009	**SW-02**	EPA 3510	OEXT/19469	EPA 8082	GCSV/13222
92136280011	**MW-05R**	EPA 3510	OEXT/19469	EPA 8082	GCSV/13222
92136280001	**MW-06**	EPA 8151	OEXT/10375	EPA 8151	GCSV/7165
92136280002	**MW-01**	EPA 8151	OEXT/10375	EPA 8151	GCSV/7165
92136280004	**MW-02**	EPA 8151	OEXT/10403	EPA 8151	GCSV/7177
92136280005	**MW-03**	EPA 8151	OEXT/10403	EPA 8151	GCSV/7177
92136280006	**MW-04**	EPA 8151	OEXT/10403	EPA 8151	GCSV/7177
92136280007	**MW-07**	EPA 8151	OEXT/10403	EPA 8151	GCSV/7177
92136280008	**SW-01**	EPA 8151	OEXT/10403	EPA 8151	GCSV/7177
92136280009	**SW-02**	EPA 8151	OEXT/10403	EPA 8151	GCSV/7177
92136280011	**MW-05R**	EPA 8151	OEXT/10403	EPA 8151	GCSV/7177
92136280001	**MW-06**	EPA 3010	MPRP/11811	EPA 6010	ICP/10821
92136280002	**MW-01**	EPA 3010	MPRP/11811	EPA 6010	ICP/10821
92136280004	**MW-02**	EPA 3010	MPRP/11813	EPA 6010	ICP/10820
92136280005	**MW-03**	EPA 3010	MPRP/11813	EPA 6010	ICP/10820
92136280006	**MW-04**	EPA 3010	MPRP/11887	EPA 6010	ICP/10874
92136280007	**MW-07**	EPA 3010	MPRP/11887	EPA 6010	ICP/10874
92136280008	**SW-01**	EPA 3010	MPRP/11813	EPA 6010	ICP/10820
92136280009	**SW-02**	EPA 3010	MPRP/11887	EPA 6010	ICP/10874
92136280011	**MW-05R**	EPA 3010	MPRP/11830	EPA 6010	ICP/10834
92136280001	**MW-06**	EPA 3020	MPRP/36015	EPA 6020	ICPM/14312
92136280002	**MW-01**	EPA 3020	MPRP/36015	EPA 6020	ICPM/14312
92136280004	**MW-02**	EPA 3020	MPRP/36129	EPA 6020	ICPM/14347
92136280005	**MW-03**	EPA 3020	MPRP/36129	EPA 6020	ICPM/14347
92136280006	**MW-04**	EPA 3020	MPRP/36129	EPA 6020	ICPM/14347
92136280007	**MW-07**	EPA 3020	MPRP/36129	EPA 6020	ICPM/14347
92136280008	**SW-01**	EPA 3020	MPRP/36129	EPA 6020	ICPM/14347
92136280009	**SW-02**	EPA 3020	MPRP/36129	EPA 6020	ICPM/14347
92136280011	**MW-05R**	EPA 3020	MPRP/36129	EPA 6020	ICPM/14347

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92136280001	**MW-06**	EPA 7470	MERP/4646	EPA 7470	MERC/4549
92136280002	**MW-01**	EPA 7470	MERP/4646	EPA 7470	MERC/4549
92136280004	**MW-02**	EPA 7470	MERP/4646	EPA 7470	MERC/4549
92136280005	**MW-03**	EPA 7470	MERP/4646	EPA 7470	MERC/4549
92136280006	**MW-04**	EPA 7470	MERP/4646	EPA 7470	MERC/4549
92136280007	**MW-07**	EPA 7470	MERP/4646	EPA 7470	MERC/4549
92136280008	**SW-01**	EPA 7470	MERP/4646	EPA 7470	MERC/4549
92136280009	**SW-02**	EPA 7470	MERP/4646	EPA 7470	MERC/4549
92136280011	**MW-05R**	EPA 7470	MERP/4646	EPA 7470	MERC/4549
92136280001	**MW-06**	EPA 3510	OEXT/19479	EPA 8270	MSSV/6925
92136280002	**MW-01**	EPA 3510	OEXT/19479	EPA 8270	MSSV/6925
92136280004	**MW-02**	EPA 3510	OEXT/19479	EPA 8270	MSSV/6925
92136280005	**MW-03**	EPA 3510	OEXT/19479	EPA 8270	MSSV/6925
92136280006	**MW-04**	EPA 3510	OEXT/19479	EPA 8270	MSSV/6925
92136280007	**MW-07**	EPA 3510	OEXT/19479	EPA 8270	MSSV/6925
92136280008	**SW-01**	EPA 3510	OEXT/19479	EPA 8270	MSSV/6925
92136280009	**SW-02**	EPA 3510	OEXT/19479	EPA 8270	MSSV/6925
92136280011	**MW-05R**	EPA 3510	OEXT/19479	EPA 8270	MSSV/6925
92136280012	**DW-01**	EPA 524.2	MSV/6899		
92136280013	**DW-02**	EPA 524.2	MSV/6899		
92136280001	**MW-06**	EPA 8260	MSV/20869		
92136280002	**MW-01**	EPA 8260	MSV/20869		
92136280003	**TRIP BLANK**	EPA 8260	MSV/20869		
92136280004	**MW-02**	EPA 8260	MSV/20965		
92136280005	**MW-03**	EPA 8260	MSV/20965		
92136280006	**MW-04**	EPA 8260	MSV/20965		
92136280007	**MW-07**	EPA 8260	MSV/20965		
92136280008	**SW-01**	EPA 8260	MSV/20965		
92136280009	**SW-02**	EPA 8260	MSV/20965		
92136280010	**Trip Blank**	EPA 8260	MSV/20965		
92136280011	**MW-05R**	EPA 8260	MSV/20965		
92136280014	**LT-01**	EPA 8260	MSV/20965		
92136280015	**TRIP BLANK**	EPA 8260	MSV/20965		
92136280001	**MW-06**	SM 2320B	WET/22943		
92136280002	**MW-01**	SM 2320B	WET/22943		
92136280004	**MW-02**	SM 2320B	WET/22994		
92136280005	**MW-03**	SM 2320B	WET/22994		
92136280006	**MW-04**	SM 2320B	WET/22994		
92136280007	**MW-07**	SM 2320B	WET/22994		
92136280011	**MW-05R**	SM 2320B	WET/22994		
92136280001	**MW-06**	SM 3500-Fe D#4	WET/22941		
92136280002	**MW-01**	SM 3500-Fe D#4	WET/22941		
92136280004	**MW-02**	SM 3500-Fe D#4	WET/22942		
92136280005	**MW-03**	SM 3500-Fe D#4	WET/22941		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92136280006	**MW-04**	SM 3500-Fe D#4	WET/22941		
92136280007	**MW-07**	SM 3500-Fe D#4	WET/22941		
92136280011	**MW-05R**	SM 3500-Fe D#4	WET/22942		
92136280001	**MW-06**	SM 4500-S2D	WET/22923		
92136280002	**MW-01**	SM 4500-S2D	WET/22923		
92136280004	**MW-02**	SM 4500-S2D	WET/22923		
92136280005	**MW-03**	SM 4500-S2D	WET/22923		
92136280006	**MW-04**	SM 4500-S2D	WET/22923		
92136280007	**MW-07**	SM 4500-S2D	WET/22923		
92136280008	**SW-01**	SM 4500-S2D	WET/22923		
92136280009	**SW-02**	SM 4500-S2D	WET/22923		
92136280011	**MW-05R**	SM 4500-S2D	WET/22923		
92136280001	**MW-06**	SM 5210B	WET/22879	SM 5210B	WET/22880
92136280002	**MW-01**	SM 5210B	WET/22882	SM 5210B	WET/22883
92136280004	**MW-02**	SM 5210B	WET/22888	SM 5210B	WET/22889
92136280005	**MW-03**	SM 5210B	WET/22888	SM 5210B	WET/22889
92136280006	**MW-04**	SM 5210B	WET/22888	SM 5210B	WET/22889
92136280007	**MW-07**	SM 5210B	WET/22888	SM 5210B	WET/22889
92136280011	**MW-05R**	SM 5210B	WET/22898	SM 5210B	WET/22899
92136280001	**MW-06**	EPA 300.0	WETA/13634		
92136280002	**MW-01**	EPA 300.0	WETA/13634		
92136280004	**MW-02**	EPA 300.0	WETA/13634		
92136280005	**MW-03**	EPA 300.0	WETA/13634		
92136280006	**MW-04**	EPA 300.0	WETA/13634		
92136280007	**MW-07**	EPA 300.0	WETA/13634		
92136280011	**MW-05R**	EPA 300.0	WETA/13650		
92136280001	**MW-06**	EPA 353.2	WETA/13566		
92136280002	**MW-01**	EPA 353.2	WETA/13566		
92136280004	**MW-02**	EPA 353.2	WETA/13570		
92136280005	**MW-03**	EPA 353.2	WETA/13570		
92136280006	**MW-04**	EPA 353.2	WETA/13570		
92136280007	**MW-07**	EPA 353.2	WETA/13570		
92136280011	**MW-05R**	EPA 353.2	WETA/13573		
92136280001	**MW-06**	SM 4500-Cl-E	WETA/13680		
92136280002	**MW-01**	SM 4500-Cl-E	WETA/13680		
92136280004	**MW-02**	SM 4500-Cl-E	WETA/13681		
92136280005	**MW-03**	SM 4500-Cl-E	WETA/13701		
92136280006	**MW-04**	SM 4500-Cl-E	WETA/13701		
92136280007	**MW-07**	SM 4500-Cl-E	WETA/13701		
92136280011	**MW-05R**	SM 4500-Cl-E	WETA/13701		
92136280001	**MW-06**	SM 4500-CN-E	WETA/13645		

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Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

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

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: JACKSON CO LF 10/23
Pace Project No.: 92136280

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92136280002	**MW-01**	SM 4500-CN-E	WETA/13645		
92136280004	**MW-02**	SM 4500-CN-E	WETA/13646		
92136280005	**MW-03**	SM 4500-CN-E	WETA/13646		
92136280006	**MW-04**	SM 4500-CN-E	WETA/13646		
92136280007	**MW-07**	SM 4500-CN-E	WETA/13646		
92136280008	**SW-01**	SM 4500-CN-E	WETA/13646		
92136280009	**SW-02**	SM 4500-CN-E	WETA/13646		
92136280011	**MW-05R**	SM 4500-CN-E	WETA/13647		
92136280001	**MW-06**	SM 5220D	WETA/13687		
92136280002	**MW-01**	SM 5220D	WETA/13687		
92136280004	**MW-02**	SM 5220D	WETA/13705		
92136280005	**MW-03**	SM 5220D	WETA/13705		
92136280006	**MW-04**	SM 5220D	WETA/13705		
92136280007	**MW-07**	SM 5220D	WETA/13705		
92136280011	**MW-05R**	SM 5220D	WETA/13705		
92136280001	**MW-06**	SM 5310B	WETA/13639		
92136280002	**MW-01**	SM 5310B	WETA/13639		
92136280004	**MW-02**	SM 5310B	WETA/13672		
92136280005	**MW-03**	SM 5310B	WETA/13672		
92136280006	**MW-04**	SM 5310B	WETA/13672		
92136280007	**MW-07**	SM 5310B	WETA/13672		
92136280011	**MW-05R**	SM 5310B	WETA/13685		

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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

1602151

Section A Required Client Information:

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

Section B Required Project Information:

Report To: Chris Gilbert
Copy To: Marta van Dussen
Purchase Order No.:
Project Name: Jackson Co. LF
Project Number: 2040

Section C Invoice Information:

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

REGULATORY AGENCY

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

Site Location STATE: NC

Section D Required Client Information

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Metals 6010	Metals 6020	App II VOCs / App II SVOCs / TOC	App II Herbicides	App II Pesticides / PCB	Sulfide / Cation Dioxide	Cyanide	Alkalinity	BOD / Ferrous Iron	COD / Sulfate, Nitrate, Chloride	Methane, Ethane, Ethene	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-06	WT	G	10/23/12	1120					16	27	X	X	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X		92136280007
2	MW-01	WT	G	10/23/12	1322					16	27	X	X	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X		92136280002
3	Trip Blank	WT		10/23/12	→										X						X											
4																																
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

92136280

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Parker Brooks / Altamont	10/24/12	8:00							
	Evan Yurvanich / Altamont	10/24/12	1142		10/24/12	11:42	2.4	Y	~	Y

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

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Parker Brooks

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 10/23/12

*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.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical www.pacelabs.com	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: May 30, 2012 Page 1 of 2
	Document No.: F-ASV-CS-003-rev.08	Issuing Authorities: Pace Asheville Quality Office

Client Name: Altamont Project # 92136280

Where Received: ☐ Huntersville ☑ Asheville ☐ Eden ☐ Raleigh

Courier (Circle): Fed Ex UPS USPS Client Commercial Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Optional Proj. Due Date:

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other_____

Circle Thermometer Used: IR Gun#2 -80344039 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

IR Gun Back Up- 111565135

Temp Correction Factor: Add/Subtract 0.1 C

Corrected Cooler Temp.: 24 C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: h 10/24/12

Comments:

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6. Nox
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☑Yes ☐No ☐N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	L
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes ☐No	Initial when completed
Samples checked for dechlorination:	☑Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☑Yes ☐No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: _____ **Date:** _____ **SRF Review:** _____ **Date:** _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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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

1602103

Section A Required Client Information:

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

Section B Required Project Information:

Report To: Chris Gilbert
Copy To: Marita van Dussen
Purchase Order No.:
Project Name: Jackson Co. LF GW
Project Number: 2040

Section C Invoice Information:

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

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

Site Location STATE: NC

Section D Required Client Information

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	COLLECTED Composite Start Time	COLLECTED Composite End/Grab Date	COLLECTED Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other Phosphoric Acid/Zinc Acetate	Analysis Test (Y/N): Metals by 6010/6020	Appl Volatiles	Appl SVOCs	Appl Herbicides/Pesticides/PCB	Sulfide/Cyanide	Alkalinity	BOD/COD	Methane, Ethane, Ethene	Ferrous Iron	Sulfate, Nitrate, Chloride	TOC/CO_2	Volatile Fatty Acids, Dissolved Hydrogen	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-02	WT	G	10/24/12	1406			18	28	X	X	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X		92136280-004
2	MW-03	WT	G	10/23/12	1654 1530			16	28	X	X	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X		-005
3	MW-04	WT	G	10/24/12	1036			15	28	X	X	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X		-006
4	MW-07	WT	G	10/24/12	1152			15	28	X	X	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X		-007
5	SW-01	WT	G	10/24/12	1317			15	14	X		X	X	X			X	X	X	X	X	X									-008
6	SW-02	WT	G	10/24/12	1426			16	14	X		X	X	X			X	X	X	X	X	X									-009
7	Trip Blank	WT							2				X	X					X												-010
8																															
9																															
10																															
11																															
12																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[signature]	10/25/12	922	Jane Meehan	10/25/12	9:22	1.6
							2.3
							1.4 1.5
							2.2 2.1

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Parker Brooks

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 10/25/12

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

ORIGINAL

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

Pace Analytical® www.pacelabs.com	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: May 30, 2012 Page 1 of 2
	Document No.: F-ASV-CS-003-rev.08	Issuing Authorities: Pace Asheville Quality Office

Client Name: Altamont Project # 92136280

Where Received: ☐ Huntersville ☑ Asheville ☐ Eden ☐ Raleigh

Courier (Circle): Fed Ex UPS USPS (Client) Commercial Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Optional Proj. Due Date:

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other_____

Circle Thermometer Used: IR Gun#2 -80344039 **Type of Ice:** (Wet) Blue None ☑ Samples on ice, cooling process has begun

IR Gun Back Up- 111565135

Temp Correction Factor: Add (Subtract 0.1 C

Corrected Cooler Temp.: 1.6/2.3/1.4/1.5/ C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C 2.2/2.1 **Comments:**

Date and Initials of person examining contents: 10/25/12 RP

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6. BOD, NO3
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	RP
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes ☐No	Initial when completed
Samples checked for dechlorination:	☐Yes ☑No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: _____ **Date:** _____ **SRF Review:** _____ **Date:** _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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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.

2 coolers

Page: 1 of 1

1602490

Section A Required Client Information:

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

Section B Required Project Information:

Report To: Chris Gilbert
Copy To: Marta van Dussen
Purchase Order No.:
Project Name: Jackson Co. LF GW
Project Number: 2040

Section C Invoice Information:

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

REGULATORY AGENCY

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

Site Location STATE: NC

Section D Required Client Information

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	Appl VOCs	VOCs by 524.2	Metals by 6010/6020	Appl SVOCs	Appl Pesticides/Pesticide/PCB	Sulfide/Cyanide/Alkalinity	BOD/COD/Ferrous Iron	Methane, Ethane, Ethene	Sulfate, Nitrate, Chloride	TOC/CO2	Volatile Fatty Acids	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-05R	WT	G	10/24/12	1520			18	29	X	X	X	X	X			X		X	X	X	X	X	X	X	X	X	X			92136280 01
2	DW-01	WT	G	10/25/12	1211			15	3				X							X											92136280 012
3	DW-02	WT	G	10/25/12	1147			14	3				X							X											92136280 013
4	LT-01	WT	G	10/25/12	1056			19	3				X						X												92136280 014
5	Trip Blank	WT							4				X						X												one set in each cooler 016
6																															
7																															
8																															
9																															
10																															
11																															
12																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature] / Altamont	10/25/12	1541	[signature]	10/25/12	15:41	2.4	X	—	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Parker Brooks

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 10/25/12

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

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

Pace Analytical® www.pacelabs.com	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: May 30, 2012 Page 1 of 2
	Document No.: F-ASV-CS-003-rev.08	Issuing Authorities: Pace Asheville Quality Office

Client Name: Altaron T Project # 92136280

Where Received: ☐ Huntersville ☑ Asheville ☐ Eden ☐ Raleigh

Courier (Circle): Fed Ex UPS USPS Client Commercial Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Optional Proj. Due Date:

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other_____

Circle Thermometer Used: IR Gun#2 -80344039 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

IR Gun Back Up- 111565135

Temp Correction Factor: Add / Subtract 0.1 C

Corrected Cooler Temp.: 2.4 C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C **Comments:**

Date and Initials of person examining contents: 10/25/12

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6. No
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☑Yes ☐No ☐N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: WT	☑Yes ☐No ☐N/A	12.
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes ☐No	Initial when completed
Samples checked for dechlorination:	☑Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☑Yes ☐No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Parker Date/Time: 10/26/12

Comments/ Resolution: Verify - no hydrogen on MW-05R

SCURF Review: _____ **Date:** _____ **SRF Review:** _____ **Date:** _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Microseeps, Inc
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November 7, 2012

Lorri Patton
Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804

RE: **JACKSON CO LF / 92136280**

Microseeps Workorder: 7058

Dear Lorri Patton:

Enclosed are the analytical results for sample(s) received by the laboratory between Thursday, October 25, 2012 and Friday, October 26, 2012. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Robbin Robl JR 11-7-12

Robbin Robl 11/07/2012
rrobl@microseeps.com

Customer Service Representative

Enclosures

As a valued client we would appreciate your comments on our service
Please email info@microseeps.com

Total Number of Pages 36

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LABORATORY ACCREDITATIONS & CERTIFICATIONS

Accreditor:	Pennsylvania Department of Environmental Protection, Bureau of Laboratories
Accreditation ID:	02-00538
Scope:	NELAP Non-Potable Water and Solid & Hazardous Waste
Accreditor:	NELAP: State of Florida, Department of Health, Bureau of Laboratories
Accreditation ID:	E87832
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	South Carolina Department of Health and Environmental Control, Office of Environmental Laboratory Certification
Accreditation ID:	89009003
Scope:	Clean Water Act (CWA); Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: State of Louisiana, Department of Environmental Quality
Accreditation ID:	04104
Scope:	Solid and Chemical Materials; Non-Potable Water
Accreditor:	NELAP: New Jersey, Department of Environmental Protection
Accreditation ID:	PA026
Scope:	Non-Potable Water; Solid and Chemical Materials
Accreditor:	NELAP: New York, Department of Health Wadsworth Center
Accreditation ID:	11815
Scope:	Non-Potable Water; Solid and Hazardous Waste
Accreditor:	State of Connecticut, Department of Public Health, Division of Environmental Health
Accreditation ID:	PH-0263
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: Texas, Commission on Environmental Quality
Accreditation ID:	T104704453-09-TX
Scope:	Non-Potable Water
Accreditor:	State of New Hampshire
Accreditation ID:	299409
Scope:	Non-potable water
Accreditor:	State of Georgia
Accreditation ID:	Chapter 391-3-26
Scope:	As per the Georgia EPD Rules and Regulations for Commercial Laboratories, Microseeps is accredited by the Pennsylvania Department of Environmental Protection Bureau of Laboratories under the National Environmental Laboratory Approval Program (NELAC).

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SAMPLE SUMMARY

Workorder: 7058 JACKSON CO LF / 92136280

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70580001	MW-06	Bubble Strip	10/23/2012 11:20	10/25/2012 11:00
70580002	MW-06	Water	10/23/2012 11:20	10/25/2012 11:00
70580003	MW-01	Bubble Strip	10/23/2012 13:22	10/25/2012 11:00
70580004	MW-01	Water	10/23/2012 13:22	10/25/2012 11:00
70580005	MW-02	Bubble Strip	10/24/2012 14:06	10/26/2012 11:00
70580006	MW-02	Water	10/24/2012 14:06	10/26/2012 11:00
70580007	MW-03	Bubble Strip	10/23/2012 15:30	10/26/2012 11:00
70580008	MW-03	Water	10/23/2012 15:30	10/26/2012 11:00
70580009	MW-04	Bubble Strip	10/24/2012 10:36	10/26/2012 11:00
70580010	MW-04	Water	10/24/2012 10:36	10/26/2012 11:00
70580011	MW-07	Bubble Strip	10/24/2012 11:52	10/26/2012 11:00
70580012	MW-07	Water	10/24/2012 11:52	10/26/2012 11:00
70580013	MW-05R	Water	10/24/2012 15:20	10/26/2012 11:00

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ANALYTICAL RESULTS

Workorder: 7058 JACKSON CO LF / 92136280

Lab ID: **70580001** Date Received: 10/25/2012 11:00 Matrix: Bubble Strip
Sample ID: **MW-06** Date Collected: 10/23/2012 11:20

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Carbon Dioxide	**120**	mg/l	5 0	0 43	1			10/30/2012 11:48	GT	
Hydrogen	**0.34J**	nM	0.60	0.074	1			10/30/2012 11:48	GT	

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ANALYTICAL RESULTS

Workorder: 7058 JACKSON CO LF / 92136280

Lab ID: **70580002** Date Received: 10/25/2012 11:00 Matrix: Water

Sample ID: **MW-06** Date Collected: 10/23/2012 11:20

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	**0.032U**	mg/l	0.10	0.032	1			10/27/2012 18:20	KB	
Acetic Acid	**0.021U**	mg/l	0.070	0.021	1			10/27/2012 18:20	KB	
Propionic Acid	**0.0040U**	mg/l	0.050	0.0040	1			10/27/2012 18:20	KB	
Formic Acid	**0.021J**	mg/l	0.10	0.010	1			10/27/2012 18:20	KB	
Butyric Acid	**0.0070U**	mg/l	0.050	0.0070	1			10/27/2012 18:20	KB	
Pyruvic Acid	**0.0040U**	mg/l	0.15	0.0040	1			10/27/2012 18:20	KB	
i-Pentanoic Acid	**0.012U**	mg/l	0.15	0.012	1			10/27/2012 18:20	KB	
Pentanoic Acid	**0.010U**	mg/l	0.070	0.010	1			10/27/2012 18:20	KB	
i-Hexanoic Acid	**0.013U**	mg/l	0.050	0.013	1			10/27/2012 18:20	KB	
Hexanoic Acid	**0.039U**	mg/l	0.10	0.039	1			10/27/2012 18:20	KB	

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ANALYTICAL RESULTS

Workorder: 7058 JACKSON CO LF / 92136280

Lab ID: **70580003** Date Received: 10/25/2012 11:00 Matrix: Bubble Strip

Sample ID: **MW-01** Date Collected: 10/23/2012 13:22

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Carbon Dioxide	**160**	mg/l	5.0	0.43	1			10/30/2012 12:00	GT	
Hydrogen	**5.4**	nM	0.60	0.074	1			10/30/2012 12:00	GT	

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ANALYTICAL RESULTS

Workorder: 7058 JACKSON CO LF / 92136280

Lab ID: **70580004** Date Received: 10/25/2012 11:00 Matrix: Water

Sample ID: **MW-01** Date Collected: 10/23/2012 13:22

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	**0.032U**	mg/l	0.10	0.032	1			10/27/2012 19:02	KB	
Acetic Acid	**0.021U**	mg/l	0.070	0.021	1			10/27/2012 19:02	KB	
Propionic Acid	**0.0040U**	mg/l	0.050	0.0040	1			10/27/2012 19:02	KB	
Formic Acid	**0.044J**	mg/l	0.10	0.010	1			10/27/2012 19:02	KB	
Butyric Acid	**0.0070U**	mg/l	0.050	0.0070	1			10/27/2012 19:02	KB	
Pyruvic Acid	**0.0040U**	mg/l	0.15	0.0040	1			10/27/2012 19:02	KB	
i-Pentanoic Acid	**0.012U**	mg/l	0.15	0.012	1			10/27/2012 19:02	KB	
Pentanoic Acid	**0.010U**	mg/l	0.070	0.010	1			10/27/2012 19:02	KB	
i-Hexanoic Acid	**0.013U**	mg/l	0.050	0.013	1			10/27/2012 19:02	KB	
Hexanoic Acid	**0.039U**	mg/l	0.10	0.039	1			10/27/2012 19:02	KB	

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ANALYTICAL RESULTS

Workorder: 7058 JACKSON CO LF / 92136280

Lab ID: **70580005** Date Received: 10/26/2012 11:00 Matrix: Bubble Strip

Sample ID: **MW-02** Date Collected: 10/24/2012 14:06

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Carbon Dioxide	**45**	mg/l	5 0	0.43	1			10/30/2012 12:13	GT	
Hydrogen	**0.89**	nM	0 60	0 074	1			10/30/2012 12:13	GT	

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Workorder: 7058 JACKSON CO LF / 92136280

Lab ID: **70580006** Date Received: 10/26/2012 11:00 Matrix: Water

Sample ID: **MW-02** Date Collected: 10/24/2012 14:06

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	**0.032U**	mg/l	0.10	0.032	1			10/31/2012 01:38	KB	
Acetic Acid	**0.081**	mg/l	0.070	0.021	1			10/31/2012 01:38	KB	
Propionic Acid	**0.0040U**	mg/l	0.050	0.0040	1			10/31/2012 01:38	KB	
Formic Acid	**0.010U**	mg/l	0.10	0.010	1			10/31/2012 01:38	KB	
Butyric Acid	**0.0070U**	mg/l	0.050	0.0070	1			10/31/2012 01:38	KB	
Pyruvic Acid	**0.0040U**	mg/l	0.15	0.0040	1			10/31/2012 01:38	KB	
i-Pentanoic Acid	**0.012U**	mg/l	0.15	0.012	1			10/31/2012 01:38	KB	
Pentanoic Acid	**0.010U**	mg/l	0.070	0.010	1			10/31/2012 01:38	KB	
i-Hexanoic Acid	**0.013U**	mg/l	0.050	0.013	1			10/31/2012 01:38	KB	
Hexanoic Acid	**0.039U**	mg/l	0.10	0.039	1			10/31/2012 01:38	KB	

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ANALYTICAL RESULTS

Workorder: 7058 JACKSON CO LF / 92136280

Lab ID: **70580007** Date Received: 10/26/2012 11:00 Matrix: Bubble Strip

Sample ID: **MW-03** Date Collected: 10/23/2012 15:30

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Carbon Dioxide	**150**	mg/l	5.0	0.43	1			10/30/2012 12:25	GT	
Hydrogen	**0.74**	nM	0.60	0.074	1			10/30/2012 12:25	GT	

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ANALYTICAL RESULTS

Workorder: 7058 JACKSON CO LF / 92136280

Lab ID: **70580008** Date Received: 10/26/2012 11:00 Matrix: Water

Sample ID: **MW-03** Date Collected: 10/23/2012 15:30

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	**0.22**	mg/l	0.10	0.032	1			10/31/2012 02:20	KB	
Acetic Acid	**0.021U**	mg/l	0.070	0.021	1			10/31/2012 02:20	KB	
Propionic Acid	**0.0040U**	mg/l	0.050	0.0040	1			10/31/2012 02:20	KB	
Formic Acid	**0.010U**	mg/l	0.10	0.010	1			10/31/2012 02:20	KB	
Butyric Acid	**0.0070U**	mg/l	0.050	0.0070	1			10/31/2012 02:20	KB	
Pyruvic Acid	**0.0040U**	mg/l	0.15	0.0040	1			10/31/2012 02:20	KB	
i-Pentanoic Acid	**0.012U**	mg/l	0.15	0.012	1			10/31/2012 02:20	KB	
Pentanoic Acid	**0.010U**	mg/l	0.070	0.010	1			10/31/2012 02:20	KB	
i-Hexanoic Acid	**0.013U**	mg/l	0.050	0.013	1			10/31/2012 02:20	KB	
Hexanoic Acid	**0.039U**	mg/l	0.10	0.039	1			10/31/2012 02:20	KB	

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ANALYTICAL RESULTS

Workorder: 7058 JACKSON CO LF / 92136280

Lab ID: **70580009** Date Received: 10/26/2012 11:00 Matrix: Bubble Strip

Sample ID: **MW-04** Date Collected: 10/24/2012 10:36

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Carbon Dioxide	**230**	mg/l	5 0	0.43	1			10/30/2012 12:39	GT	
Hydrogen	**19**	nM	0 60	0 074	1			10/30/2012 12:39	GT	

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ANALYTICAL RESULTS

Workorder: 7058 JACKSON CO LF / 92136280

Lab ID: **70580010** Date Received: 10/26/2012 11:00 Matrix: Water

Sample ID: **MW-04** Date Collected: 10/24/2012 10:36

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	**0.032U**	mg/l	0.10	0.032	1			10/31/2012 03:02	KB	
Acetic Acid	**0.021U**	mg/l	0.070	0.021	1			10/31/2012 03:02	KB	
Propionic Acid	**0.0040U**	mg/l	0.050	0.0040	1			10/31/2012 03:02	KB	
Formic Acid	**0.010U**	mg/l	0.10	0.010	1			10/31/2012 03:02	KB	
Butyric Acid	**0.0070U**	mg/l	0.050	0.0070	1			10/31/2012 03:02	KB	
Pyruvic Acid	**0.0040U**	mg/l	0.15	0.0040	1			10/31/2012 03:02	KB	
i-Pentanoic Acid	**0.012U**	mg/l	0.15	0.012	1			10/31/2012 03:02	KB	
Pentanoic Acid	**0.010U**	mg/l	0.070	0.010	1			10/31/2012 03:02	KB	
i-Hexanoic Acid	**0.013U**	mg/l	0.050	0.013	1			10/31/2012 03:02	KB	
Hexanoic Acid	**0.082J**	mg/l	0.10	0.039	1			10/31/2012 03:02	KB	

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ANALYTICAL RESULTS

Workorder: 7058 JACKSON CO LF / 92136280

Lab ID: **70580011** Date Received: 10/26/2012 11:00 Matrix: Bubble Strip

Sample ID: **MW-07** Date Collected: 10/24/2012 11:52

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Carbon Dioxide	**120**	mg/l	5 0	0.43	1			10/30/2012 12:52	GT	
Hydrogen	**16**	nM	0 60	0 074	1			10/30/2012 12:52	GT	

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ANALYTICAL RESULTS

Workorder: 7058 JACKSON CO LF / 92136280

Lab ID: **70580012** Date Received: 10/26/2012 11:00 Matrix: Water

Sample ID: **MW-07** Date Collected: 10/24/2012 11:52

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	**0.033J**	mg/l	0.10	0.032	1			10/31/2012 03:44	KB	
Acetic Acid	**0.021U**	mg/l	0.070	0.021	1			10/31/2012 03:44	KB	
Propionic Acid	**0.0040U**	mg/l	0.050	0.0040	1			10/31/2012 03:44	KB	
Formic Acid	**0.010U**	mg/l	0.10	0.010	1			10/31/2012 03:44	KB	
Butyric Acid	**0.0070U**	mg/l	0.050	0.0070	1			10/31/2012 03:44	KB	
Pyruvic Acid	**0.0040U**	mg/l	0.15	0.0040	1			10/31/2012 03:44	KB	
i-Pentanoic Acid	**0.012U**	mg/l	0.15	0.012	1			10/31/2012 03:44	KB	
Pentanoic Acid	**0.010U**	mg/l	0.070	0.010	1			10/31/2012 03:44	KB	
i-Hexanoic Acid	**0.013U**	mg/l	0.050	0.013	1			10/31/2012 03:44	KB	
Hexanoic Acid	**0.039U**	mg/l	0.10	0.039	1			10/31/2012 03:44	KB	

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ANALYTICAL RESULTS

Workorder: 7058 JACKSON CO LF / 92136280

Lab ID: **70580013** Date Received: 10/26/2012 11:00 Matrix: Water

Sample ID: **MW-05R** Date Collected: 10/24/2012 15:20

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	**0.11**	mg/l	0 10	0.032	1			10/31/2012 04:26	KB	
Acetic Acid	**0.027J**	mg/l	0 070	0.021	1			10/31/2012 04:26	KB	
Propionic Acid	**0.0040U**	mg/l	0 050	0.0040	1			10/31/2012 04:26	KB	
Formic Acid	**0.032J**	mg/l	0 10	0.010	1			10/31/2012 04:26	KB	
Butyric Acid	**0.0070U**	mg/l	0 050	0.0070	1			10/31/2012 04:26	KB	
Pyruvic Acid	**0.0040U**	mg/l	0 15	0 0040	1			10/31/2012 04:26	KB	
i-Pentanoic Acid	**0.012U**	mg/l	0 15	0 012	1			10/31/2012 04:26	KB	
Pentanoic Acid	**0.010U**	mg/l	0 070	0.010	1			10/31/2012 04:26	KB	
i-Hexanoic Acid	**0.013U**	mg/l	0 050	0.013	1			10/31/2012 04:26	KB	
Hexanoic Acid	**0.039U**	mg/l	0 10	0.039	1			10/31/2012 04:26	KB	
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Carbon Dioxide	**160**	mg/l	5 0	0.35	1			11/1/2012 08:15	BW	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 7058 JACKSON CO LF / 92136280

PARAMETER QUALIFIERS

MDL	Method Detection Limit Can be used synonymously with LOD; Limit Of Detection
PQL	Practical Quanitation Limit Can be used synonymously with LOQ; Limit Of Quantitation
ND	Not detected at or above reporting limit
DF	Dilution Factor
S	Surrogate
RPD	Relative Percent Difference
% Rec	Percent Recovery
U	Indicates the compound was analyzed for, but not detected at or above the noted concentration
J	Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (PQL)

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Phone: (412) 826-5245
Fax: (412) 826-3433

QUALITY CONTROL DATA

Workorder: 7058 JACKSON CO LF / 92136280

QC Batch: EDON/1567 Analysis Method: AM23G

QC Batch Method: AM23G

Associated Lab Samples: 70580002, 70580004

METHOD BLANK: 15440

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
EDonors				
Lactic Acid	mg/l	ND	0.032	
Acetic Acid	mg/l	ND	0.021	
Propionic Acid	mg/l	0.0040U	0.0040	
Formic Acid	mg/l	0.010U	0.010	
Butyric Acid	mg/l	0.0070U	0.0070	
Pyruvic Acid	mg/l	0.0040U	0.0040	
i-Pentanoic Acid	mg/l	0.012U	0.012	
Pentanoic Acid	mg/l	0.010U	0.010	
i-Hexanoic Acid	mg/l	0.013U	0.013	
Hexanoic Acid	mg/l	0.039U	0.039	

LABORATORY CONTROL SAMPLE: 15441

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
EDonors						
Lactic Acid	mg/l	2	2.0	98	70-130	
Acetic Acid	mg/l	2	2.0	98	70-130	
Propionic Acid	mg/l	2	1.9	97	70-130	
Formic Acid	mg/l	2	1.9	97	70-130	
Butyric Acid	mg/l	2	1.9	94	70-130	
Pyruvic Acid	mg/l	2	2.0	100	70-130	
i-Pentanoic Acid	mg/l	2	1.8	91	70-130	
Pentanoic Acid	mg/l	2	1.9	94	70-130	
i-Hexanoic Acid	mg/l	2	1.8	89	70-130	
Hexanoic Acid	mg/l	2	1.8	90	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 15442 15443 Original: 70460001

Parameter	Units	Original Result	Spike Conc	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
EDonors											
Lactic Acid	mg/l	0.0096	2	2.0	2.0	101	100	70-130	1	30	

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QUALITY CONTROL DATA

Workorder: 7058 JACKSON CO LF / 92136280

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 15442 15443 Original: 70460001

Parameter	Units	Original Result	Spike Conc	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Acetic Acid	mg/l	-0.0044	2	2.0	2.0	101	100	70-130	1	30	
Propionic Acid	mg/l	0	2	2.0	1.9	98	97	70-130	1	30	
Formic Acid	mg/l	0.036	2	2.0	2.0	99	97	70-130	2	30	
Butyric Acid	mg/l	0	2	1.9	1.8	93	90	70-130	3.3	30	
Pyruvic Acid	mg/l	0	2	2.0	2.0	103	103	70-130	0	30	
i-Pentanoic Acid	mg/l	0	2	1.8	1.8	88	89	70-130	1.1	30	
Pentanoic Acid	mg/l	0	2	1.8	1.8	91	91	70-130	0	30	
i-Hexanoic Acid	mg/l	0	2	1.9	2.0	95	98	70-130	3.1	30	
Hexanoic Acid	mg/l	0	2	1.7	1.7	85	86	70-130	1.2	30	

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QUALITY CONTROL DATA

Workorder: 7058 JACKSON CO LF / 92136280

QC Batch: DISG/2549 Analysis Method: AM20GAX

QC Batch Method: AM20GAX

Associated Lab Samples: 70580001, 70580003. 70580005. 70580007, 70580009. 70580011

METHOD BLANK: 15484

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
Carbon Dioxide	mg/l	0 43U	0 43	

METHOD BLANK: 15485

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
Hydrogen	nM	0 074U	0 074	

LABORATORY CONTROL SAMPLE & LCSD: 15487 15490

Parameter	Units	Spike Conc	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
Carbon Dioxide	mg/l	94	82	82	88	87	80-120	1 1	20	

LABORATORY CONTROL SAMPLE & LCSD: 15488 15491

Parameter	Units	Spike Conc	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
Hydrogen	nM	25	24	23	93	93	80-120	0	20	

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QUALITY CONTROL DATA

Workorder: 7058 JACKSON CO LF / 92136280

QC Batch: EDON/1569 Analysis Method: AM23G

QC Batch Method: AM23G

Associated Lab Samples: 70580006, 70580008, 70580010. 70580012. 70580013

METHOD BLANK: 15502

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
EDonors				
Lactic Acid	mg/l	ND	0 032	
Acetic Acid	mg/l	ND	0 021	
Propionic Acid	mg/l	0 0040U	0.0040	
Formic Acid	mg/l	ND	0 010	
Butyric Acid	mg/l	0 0070U	0 0070	
Pyruvic Acid	mg/l	0.0040U	0 0040	
i-Pentanoic Acid	mg/l	0 012U	0.012	
Pentanoic Acid	mg/l	0 010U	0 010	
i-Hexanoic Acid	mg/l	0 013U	0.013	
Hexanoic Acid	mg/l	0 039U	0 039	

LABORATORY CONTROL SAMPLE: 15503

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
EDonors						
Lactic Acid	mg/l	2	1 9	94	70-130	
Acetic Acid	mg/l	2	1 9	93	70-130	
Propionic Acid	mg/l	2	1 8	92	70-130	
Formic Acid	mg/l	2	1 9	94	70-130	
Butyric Acid	mg/l	2	1 8	91	70-130	
Pyruvic Acid	mg/l	2	2 0	98	70-130	
i-Pentanoic Acid	mg/l	2	1 8	88	70-130	
Pentanoic Acid	mg/l	2	1 8	90	70-130	
i-Hexanoic Acid	mg/l	2	1 8	89	70-130	
Hexanoic Acid	mg/l	2	1 7	87	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 15504 15505 Original: 70560001

Parameter	Units	Original Result	Spike Conc	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
EDonors											
Lactic Acid	mg/l	0	2	1 9	1 9	96	95	70-130	1	30	

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QUALITY CONTROL DATA

Workorder: 7058 JACKSON CO LF / 92136280

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 15504 15505 Original: 70560001

Parameter	Units	Original Result	Spike Conc	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Acetic Acid	mg/l	8 2	2	10	10	113	111	70-130	1 8	30	
Propionic Acid	mg/l	2 3	2	4 2	4 2	95	94	70-130	1 1	30	
Formic Acid	mg/l	3 9	2	5 8	5 8	96	94	70-130	2 1	30	
Butyric Acid	mg/l	0 25	2	2 2	2 2	100	99	70-130	1	30	
Pyruvic Acid	mg/l	0.11	2	2 1	2 1	101	99	70-130	2	30	
i-Pentanoic Acid	mg/l	0 36	2	2 2	2 2	92	92	70-130	0	30	
Pentanoic Acid	mg/l	0 044	2	1 9	1 9	94	92	70-130	2 2	30	
i-Hexanoic Acid	mg/l	0	2	1 8	1 8	91	89	70-130	2 2	30	
Hexanoic Acid	mg/l	0	2	1 8	1 8	90	90	70-130	0	30	

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QUALITY CONTROL DATA

Workorder: 7058 JACKSON CO LF / 92136280

QC Batch: DISG/2554 Analysis Method: AM20GAX
QC Batch Method: AM20GAX
Associated Lab Samples: 70580013

METHOD BLANK: 15518

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
Carbon Dioxide	mg/l	0 35U	0 35	

LABORATORY CONTROL SAMPLE & LCSD: 15520 15522

Parameter	Units	Spike Conc	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
Carbon Dioxide	mg/l	130	130	120	98	96	80-120	2 1	20	

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 7058 JACKSON CO LF / 92136280

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
70580002	MW-06			AM23G	EDON/1567
70580004	MW-01			AM23G	EDON/1567
70580001	MW-06			AM20GAX	DISG/2549
70580003	MW-01			AM20GAX	DISG/2549
70580005	MW-02			AM20GAX	DISG/2549
70580007	MW-03			AM20GAX	DISG/2549
70580009	MW-04			AM20GAX	DISG/2549
70580011	MW-07			AM20GAX	DISG/2549
70580006	MW-02			AM23G	EDON/1569
70580008	MW-03			AM23G	EDON/1569
70580010	MW-04			AM23G	EDON/1569
70580012	MW-07			AM23G	EDON/1569
70580013	MW-05R			AM23G	EDON/1569
70580013	MW-05R			AM20GAX	DISG/2554

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7058

Chain of Custody

Pace Analytical®
www.pacelabs.com

Workorder: 92136280 **Workorder Name:** JACKSON CO LF 10/23 **Results Requested** 11/7/2012

Report / Invoice To

Lorri Patton
Pace Analytical Asheville
2225 Riverside Dr.
Asheville, NC 28804
Phone (828)254-7176
Email: lorri.patton@pacelabs.com

Subcontract To

MicroSeeps

P.O. # A59200

$ 400

Requested Analysis

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	Carbon Dioxide	Hydrogen Sulfide	(VFA) Volatile Fatty Acid	LAB USE ONLY
1	MW-06	10/23/2012 11:20	92136280001	Water	✓	✓	✓	✓	
2	MW-01	10/23/2012 13:22	92136280002	Water	✓	✓	✓	✓	
3									
4									
5									

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature]	10/24/12 17:00	[signature]	10-25-12 1100
2				
3				

Comments

Cooler Temperature on Receipt 0.6 °C **Custody Seal** Y or (N) **Received on Ice** (Y) or N **Samples Intact** (Y) or N

Chain of Custody

7058

Pace Analytical®
www.pacelabs.com

Workorder: 92136280 **Workorder Name:** JACKSON CO LF 10/23 **Results Requested** 11/7/2012

Report / Invoice To

Lorri Patton
Pace Analytical Asheville
2225 Riverside Dr.
Asheville, NC 28804
Phone (828)254-7176
Email: lorri.patton@pacelabs.com

Subcontract To

P.O. # AS9201

Microseeps

$200 each

Requested Analysis

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	Volatile Fatty Acids Low Level	Carbon Dioxide	Hydrogen	LAB USE ONLY
1	~~MW-06~~	~~10/23/2012 11:20~~	~~92136280001~~	~~Water~~	✓				
2	~~MW-01~~	~~10/23/2012 13:22~~	~~92136280002~~	~~Water~~	✓				10/25
1 3	MW-02 1 2	10/24/2012 14:06	92136280004	Water	✓				
2 4	MW-03 3 4	10/23/2012 15:30	92136280005	Water	✓				
3 5	MW-04 5 6	10/24/2012 10:36	92136280006	Water	✓				
4 6	MW-07 7 8	10/24/2012 11:52	92136280007	Water	✓				
5 7	MW-05R 9	10/24/2012 15:20	92136280011	Water	✓				

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature]	10/25/12 12:00	[signature]	10-26-12
2				
3				

Comments

1100 Please add on to Previously Recd. Project # 92136280

Cooler Temperature on Receipt 1°C °C **Custody Seal** Y or N **Received on Ice** Y or N **Samples Intact** Y or N

NON-CONFORMANCE FORM

Microseeps Project Number: 7058

Date: 10-25-12 Time of Receipt: 11:00 Receiver: HLY

Client: Pace

REASON FOR NON-CONFORMANCE:

COC requested Sulfide.
No volume for this analysis.

ACTION TAKEN:

Client name: Lori Patton Date: 10/25/12 Time: email

Per attached email - only H_2.

Customer Service Initials: RL Date: 10/25/12

NON-CONFORMANCE FORM

Microseeps Project Number: 7058

Date: 10-26-12 Time of Receipt: 11.00 Receiver: HLanJoreng

Client: Pace

REASON FOR NON-CONFORMANCE:

- MW-03 COC time 15:30
Vials time 16:~~40~~ 54 HLJ
- Did not receive Hydrogen vial for MW-05R.

ACTION TAKEN:

Client name: Lori Patton Date: 10/26/12 Time: email

Per attached email - actual collection time is 15:30.

Customer Service Initials: RR Date: 10/26/12

7058

Robbin Robl

From: Lorri Patton <Lorri.Patton@pacelabs.com>
Sent: Thursday, October 25, 2012 1:42 PM
To: Robbin Robl
Subject: RE: Kit

Just Hydrogen, I don't know where he got HS- sorry about that.

>>> "Robbin Robl" <rrobl@microseeps.com> 10/25/2012 1:32 PM >>>

Hi Lorri,

We did receive this project and I was going to e-mail you. The COC indicates Hydrogen Sulfide – we can run hydrogen, but not hydrogen sulfide. How should we proceed?

Robbin

From: Lorri Patton [mailto:Lorri.Patton@pacelabs.com]
Sent: Thursday, October 25, 2012 1:30 PM
To: Robbin Robl
Subject: RE: Kit

Hi Robbin,

We sent one set of samples to you yesterday for our project 92136280. I just wanted to make sure that you would test for the low level volatile fatty acids? Also, I have 4 more samples that we will be sending to you today. Do you accept samples on Saturdays? I think our client is turning in more samples tomorrow. Are there hold time issues with any of these- Carbon Dioxind, Hydrogen, VFA's?

Thank you,
Lorri

>>> "Robbin Robl" <rrobl@microseeps.com> 10/17/2012 4:21 PM >>>

Hi Lorri,

We did ship the sample containers out yesterday, however you will be receiving one box from FedEx and another from UPS. I can't remember what was forgotten, but it was shipped ASAP.

Robbin

From: Lorri Patton [mailto:Lorri.Patton@pacelabs.com]
Sent: Tuesday, October 16, 2012 2:35 PM

Robbin Robl 7058

From: Lorri Patton <Lorri.Patton@pacelabs.com>
Sent: Friday, October 26, 2012 3:41 PM
To: Robbin Robl
Subject: RE: 92136280

Hi Robbin,

There will not be a Hydrogen sample for MW-05R.

Thank you,
Lorri

>>> "Robbin Robl" <rrobl@microseeps.com> 10/26/2012 1:26 PM >>>
Hi Lorri,

No problem – we will do that. Thanks for verifying the time. We will proceed.

Robbin

From: Lorri Patton [mailto:Lorri.Patton@pacelabs.com]
Sent: Friday, October 26, 2012 1:23 PM
To: Robbin Robl
Subject: Re: 92136280

Hi Robbin,

If you could add the samples to the project that you started yesterday, that would be great. I did verify with the client that the real collection time was 15:30, we had asked them to clarify that yesterday. I will check on the hydrogen vial.

>>> "Robbin Robl" <rrobl@microseeps.com> 10/26/2012 1:20 PM >>>
Hi Lorri,

We received additional samples today for your project 92136280, however, sample ID MW-03 has a collection time of 15:30 and the vials indicate 16:54. Also, we did not receive a hydrogen vial for sample MW-05R.

Finally, there is a note on the COC indicating to add to the previous project?

Thanks!
Robbin

Robbin Robl
Microseeps, Inc.
220 William Pitt Way
Pittsburgh, PA 15238
Direct: 412-826-4483
Office: 412-826-5423

7058

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7058

Robbin Robl

From: Lorri Patton <Lorri.Patton@pacelabs.com>
Sent: Friday, October 26, 2012 1:23 PM
To: Robbin Robl
Subject: Re: 92136280

Hi Robbin,

If you could add the samples to the project that you started yesterday, that would be great. I did verify with the client that the real collection time was 15:30, we had asked them to clarify that yesterday. I will check on the hydrogen vial.

>>> "Robbin Robl" <rrobl@microseeps.com> 10/26/2012 1:20 PM >>>
Hi Lorri,

We received additional samples today for your project 92136280, however, sample ID MW-03 has a collection time of 15:30 and the vials indicate 16:54. Also, we did not receive a hydrogen vial for sample MW-05R.

Finally, there is a note on the COC indicating to add to the previous project?

Thanks!
Robbin

Robbin Robl
Microseeps, Inc.
220 William Pitt Way
Pittsburgh, PA 15238
Direct: 412-826-4483
Office: 412-826-5423

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Cooler Receipt Form

Client Name: Pace Asheville Project: Jackson Co LF /92136280 Lab Work Order: 7058

A. Shipping/Container Information (circle appropriate response)

Courier: (FedEx) UPS USPS Client Other:_____ Air bill Present: (Yes) No

Tracking Number: 7939 2422 1344

Custody Seal on Cooler/Box Present: Yes (No) Seals Intact: Yes No

Cooler/Box Packing Material: (Bubble Wrap) Absorbent Foam Other:_____

Type of Ice: (Wet) Blue None Ice Intact: (Yes) Melted

Cooler Temperature: 0.6°C Radiation Screened: Yes (No) Chain of Custody Present: (Yes) No

Comments:_____

B. Laboratory Assignment/Log-in (check appropriate response)

	YES	NO	N/A	Comment Reference non-Conformance
Chain of Custody properly filled out	✓			
Chain of Custody relinquished	✓			
Sampler Name & Signature on COC		✓		
Containers intact	✓			
Were samples in separate bags		✓		
Sample container labels match COC Sample name/date and time collected	✓			
Sufficient volume provided		✓		
Microseeps containers used	✓			
Are containers properly preserved for the requested testing? (as labeled)	✓			
If an unknown preservation state, were containers checked? Exception: VOA's coliform			✓	
Was volume for dissolved testing field filtered, as noted on the COC? Was volume received in a preserved container?			✓	

Comments:_____

Cooler contents examined/received by: HCY Date: 10-25-12

Project Manager Review: RR Date: 10/25/12

Cooler Receipt Form

Client Name: Pace Project: Jackson Co LF Lab Work Order: 7058
192136280

A. Shipping/Container Information (circle appropriate response)

Courier: (FedEx) UPS USPS Client Other:_____ Air bill Present: (Yes) No

Tracking Number: 7939 3543 9853

Custody Seal on Cooler/Box Present: (Yes) No Seals Intact: (Yes) No

Cooler/Box Packing Material: (Bubble Wrap) Absorbent Foam Other:_____

Type of Ice: (Wet) Blue None Ice Intact: (Yes) Melted

Cooler Temperature: 1°C Radiation Screened: Yes (No) Chain of Custody Present: (Yes) No

Comments:_____

B. Laboratory Assignment/Log-in (check appropriate response)

	YES	NO	N/A	Comment Reference non-Conformance
Chain of Custody properly filled out	✓			
Chain of Custody relinquished	✓			
Sampler Name & Signature on COC		✓		
Containers intact	✓			
Were samples in separate bags	✓			
Sample container labels match COC Sample name/date and time collected		✓		
Sufficient volume provided	✓			
Microseeps containers used	✓			
Are containers properly preserved for the requested testing? (as labeled)	✓			
If an unknown preservation state, were containers checked? Exception: VOA's coliform			✓	
Was volume for dissolved testing field filtered, as noted on the COC? Was volume received in a preserved container?			✓	

Comments:_____

Cooler contents examined/received by: HCY Date: 10-26-12

Project Manager Review: RCY Date: 10-26-12

APPENDIX C

Environmental Monitoring Form and Electronic Submittal of Environmental Monitoring Data 5002Oct2012 (CD only)

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

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

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

Instructions:

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

Solid Waste Monitoring Data Submittal Information

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

Altamont Environmental, Inc.

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

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

E-mail: mvandussen@altamontenvironmental.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Jackson County Municipal Solid Waste Landfill	US Highway 441 Dillsboro, NC 28725	50-02	.1600	October 23-25, 2012

Environmental Status: (Check all that apply)

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

Type of data submitted: (Check all that apply)

☒ Groundwater monitoring data from monitoring wells
☒ Groundwater monitoring data from private water supply wells
☒ Leachate monitoring data
☒ Surface water monitoring data
☐ Methane gas monitoring data
☒ Corrective action data (specify) Natural Attenuation Parameters
☐ 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.

Robert Hastings, P.G. Project Geologist (828) 281-3350

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

Affix NC Licensed/ Professional Geologist Seal

Signature Date

231 Haywood Street, Asheville, North Carolina 28801

Facility Representative Address

C-2185

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

NORTH CAROLINA LICENSED SEAL 1908 GEOLOGIST Robert W. Hastings

Revised 6/2009