P 0085

[redacted] ☐ Paper Report ☑ Electronic Data - Email CD (data loaded: Yes / No) Doc/Event #: RCO 2338

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

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

Instructions:

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

Solid Waste Monitoring Data Submittal Information

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

Altamont Environmental, Inc.

Received
MAY 2007
Waste Management

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

Name: Katie Massie Phone: 828-281-3350

E-mail: kmassie@altamontenvironmental.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Jackson County Municipal Solid Waste Landfill	US Highway 441, NC 28725	50-02	0.1600	April 3, 2007

Environmental Status: (Check all that apply)

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

Type of data submitted: (Check all that apply)

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

Notification attached?

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

Certification

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

Stuart A. Ryman Project Geologist 828 287 3350

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

Stu A R 5.17.07

Signature Date

Affix NC Licensed/ Professional Geologist/Engineer Seal here:

NORTH CAROLINA LICENSED SEAL 1654 GEOLOGIST STUART A. RYMAN

Revised 01/2007

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SPRING 2007 SEMI-ANNUAL WATER QUALITY MONITORING REPORT

JACKSON COUNTY MUNICIPAL SOLID WASTE LANDFILL JACKSON COUNTY, NORTH CAROLINA

Prepared for
Jackson County MSWLF

May 16, 2007

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

Stuart A. Ryman
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 three-quarters of a mile west of Dillsboro, North Carolina, north of Old Dillsboro Road (Old U.S. 74). The approximate location of the landfill is shown in Figure 1. The landfill is governed by the North Carolina Department of Environment and Natural Resources (DENR), Division of Waste Management (DWM), Permit No. 50-02 issued to Jackson County. The landfill permit requires semiannual monitoring of groundwater and surface water quality.

This report serves as the first semiannual groundwater and surface water monitoring report for 2007 and is being submitted in accordance with requirements stipulated in the North Carolina DENR Solid Waste Management Rules 15A North Carolina Administrative Code (NCAC) 13B. The data and report also comply with the subsequent memorandum regarding Appendix II monitoring from DENR, dated April 21, 1995. In correspondence dated November 19, 2002, the DENR agreed to modify the assessment monitoring requirements at the Jackson County closed landfill. Sampling and analysis for semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), and pesticides are currently on a biennial basis. These parameters were analyzed during the current sampling event. This report provides an evaluation of the groundwater and surface water quality. Statistical analyses of groundwater data and groundwater flow information are also provided.

This report contains the following items:

- Groundwater level measurements and corresponding elevations for the landfill monitoring wells;
- An illustration of groundwater and surface water sampling locations;
- Generalized groundwater flow direction map;
- Summary of groundwater and surface water analytical results;
- Statistical analyses for metals and VOCs;
- Sampling logs; and
- Groundwater and surface water quality analytical results with chain-of-custody forms.

2.0 SEMIANNUAL MONITORING

2.1 GROUNDWATER, SURFACE WATER, AND DOMESTIC WELL SAMPLING

The closed MSWLF monitoring wells (MW-01, MW-02, MW-03, MW-04, MW-05 and MW-06) and surface water sample locations (SW-01 and SW-02) were sampled on April 3, 2007 by Altamont Environmental, Inc. (Altamont). The monitoring well and surface water sample locations are shown on Figure 2. PMW-01 was not sampled for the current monitoring period. PMW-01 has served as a replacement for MW-5 since Fall of 2005 due to an obstruction in the well casing of MW-5. Sampling of MW-5 was accomplished during this sampling period using a flexible Teflon bailer, which successfully passed the obstruction.

Prior to sampling the groundwater, the static water level in each well and the total well depth were measured. Each well was then purged and sampled using a disposable bailer. Samples were obtained after a minimum of three well volumes had been purged and pH, specific conductivity, and temperature readings had stabilized to within ten percent of the previous reading. A summary of field indicator parameters for each well is included in Table 1. Copies of the sampling logs are included in Appendix A.

Altamont submitted the groundwater and surface water samples for analyses as follows:

- Appendix I Volatile Organic Compounds (VOCs) using US Environmental Protection Agency (EPA) Method 8260
- Appendix I Metals using EPA Methods 6010 and 7470

Following collection, Altamont delivered the samples to Pace Analytical Services, Inc. (Pace), a North Carolina certified laboratory. Proper chain-of-custody documentation was followed during collection and transportation of each sample. A trip blank was also analyzed for VOCs. The analytical reports and chain-of-custody forms are included in Appendix B.

2.2 ANALYTICAL RESULTS

Analytical results for the Appendix I metals are shown in Tables 1 and 2 and are depicted as follows:

- Four metals (barium, cobalt, selenium, and zinc) were detected at concentrations above the Method Reporting Limit (MRL) in the monitoring well samples. One metal was detected in surface water samples; zinc was detected in SW-02 at concentrations exceeding the MRL.
- Six metals (cadmium, chromium, copper, mercury, nickel, and vanadium) were detected in monitoring well samples only at concentrations lower than the MRL but greater than the Method Detection Limit (MDL). Three of these metals (copper, vanadium, and zinc) were also detected in surface water samples at concentrations between the MDL and MRL. These results were flagged with a "J" qualifier (Table 1).
- Barium in MW-4 was the only metal detected at a concentration greater than the respective North Carolina Administrative Code (NCAC) Title 15A, Subchapter 2L groundwater quality standard (2L Standard). The one metal (zinc) detected in surface water samples did not exceed the NCAC Title 15A, Subchapter 2B standard. The 2L and 2L Standard exceedances are summarized in Table 3.

The analytical results for detected VOCs are shown in Tables 1 and 2 and are depicted as follows:

- Nine VOCs (1,1-dichloroethane, 1,4-dichlorobenzene, benzene, chlorobenzene, chloroethane, cis-1,2-dichloroethene, tetrachloroethene, trichloroethene, and total xylenes) were detected at concentrations above the MRL in one or more of the monitoring well samples.
- Among monitoring well samples, four VOCs (1,2-dichlorbenzene, ethylbenzene, toluene, and m&p-xylene) were only detected at concentrations lower than the MRL but greater than the MDL, and are flagged with "J" qualifier in Table 1. 1,4-dichlorobenzene was found in MW-01, MW-03, MW-04, MW-05, and MW-06 in excess of the respective 2L Standard.
- Benzene was found in MW-01, MW-03, MW-04, MW-05, and MW-06 in excess of the respective 2L Standard.
- Tetrachloroethene concentrations in samples from MW-1 and MW-6 exceeded the respective 2L Standard.
- No other VOCs were detected in the monitoring wells at concentrations greater than the 2L Standards.
- No VOCs were detected in the surface water samples at concentrations greater than the MRL.
- One VOC (1,2-dichlorobenzene) was detected in surface water samples at concentrations between the MDL and MRL.

2.3 HYDROGEOLOGY

Groundwater at the MSWLF occurs in two aquifers, one in bedrock and the other in the shallow saprolite. Three bedrock wells MW-01, MW-02, and MW-06 are located in the northwest portion of the site. However, because these three wells are more or less in a linear pattern, a specific flow direction in bedrock in this area cannot be reliably ascertained.

Monitoring wells MW-03, MW-04, MW-05 and PMW-01 (Figure 3), located at the southern portion of the landfill, are completed in the saprolite or partially weathered bedrock. Water level data collected from MW-03, MW-04, MW-05 and PMW-01 (Table 4) indicate that the predominant groundwater flow direction in the shallow aquifer is to the southwest toward the Tuckasegee River. Figure 3 depicts the generalized groundwater flow direction based on the groundwater measurements made by Altamont on April 3, 2007.

2.4 STATISTICAL ANALYSES

Typically, the analysis of variance procedure is used to compare concentration data from several compliance wells with concentration data from background wells. However, as stated in a letter from Altamont to DENR on January 16, 2004, the MSWLF does not have an adequate background well. Monitoring well MW-01 was installed by a previous consultant in a location that was presumably thought to represent background water quality. However, the historical analytical results for samples from MW-01 suggest that water quality at MW-01 is not representative of background groundwater conditions. Therefore, an analysis of variance procedure is not feasible for this landfill.

In lieu of an analysis of variance procedure, Altamont performed the Student's *t*-test statistical procedure (*t*-test) to determine if concentrations of detected contaminants are statistically greater than their respective 2L Standard. The *t*-test is commonly used when comparing a time series of data (e.g., current and historic concentrations of a specific contaminant in a well) to one given value (e.g., the 2L Standard). The EPA Maximum Contaminant Level (MCL) values were used for compounds that did not have a listed 2L Standard.

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

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

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

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

Data for detected metals and VOCs from all available laboratory analyses performed to date were taken into account for the statistical evaluation. Compounds that were not detected at concentrations above the laboratory reporting limit were evaluated using the full reporting limit, unless the reporting limit was greater than the 2L Standard. Altamont consulted with Mr. Arthur Lubin, an environmental statistician with the EPA, on January 9, 2004 concerning the use of values reported as "non-detectable". Mr. Lubin stated that a valid statistical comparison is not possible when a sample set contains non-detect values and the detection limit is greater than the groundwater standard. He stated that a qualitative analysis of the data is the only feasible option for this scenario.

2.4.1 Metals

The results of the statistical analyses are included as Appendix C. According to statistical analyses, none

of the metal concentrations detected in the monitoring well samples were statistically greater than their respective groundwater standard.

2.4.2 Volatile Organic Compounds

2.4.2.1 1,4-dichlorobenzene

The statistical analyses show that 1,4-dichlorobenzene has been detected in MW-01, MW-02, MW-03, MW-04, MW-05 and MW-06 at concentrations statistically greater than the respective groundwater standard. (***Note:*** PMW-01 was not sampled since sampling was successful at MW-05. The use of a more flexible Teflon bailer enabled passage around an obstruction in the well casing of MW-05.) The laboratory results from this sampling event indicate an increase in the concentration of 1,4-dichlorobenzene in MW-01, MW-03, MW-04, and MW-06. The *t*-test for 1,4-dichlorobenzene is not valid for MW-02 since the sample set contains only non-detect values.

Benzene

Benzene has been detected in all six monitoring wells (MW-01, MW-02, MW-03, MW-04, MW-05, and MW-06) at concentrations statistically greater than the respective 2L groundwater standard. The *t*-test for benzene in MW-02, MW-03, and MW-04 is not valid since the sample sets contain a majority of non-detect values.

Tetrachloroethene

Concentrations of tetrachloroethene found in all six monitoring wells (MW-01 through MW-06) are statistically greater than the respective 2L Standard. However, the statistical analysis is not valid for any of the monitoring wells because the MRL exceeds the 2L Standard, and the sample sets primarily consist of non-detect values.

3.0 SUMMARY

The semiannual groundwater monitoring was conducted on April 3, 2007 at the Jackson County MSWLF.

MW-05 was sampled for the first time since the sampling event in Fall 2005. PMW-01, which Altamont began sampling in place of MW-05 during the April 13, 2006 sampling event, was not sampled during the most recent sampling event.

3.1 METALS

Analytical results indicate that four metals were detected in the monitoring well samples, and one metal was detected in the surface water samples, at concentrations in excess of the MRL. Six metals were detected at concentrations below the MRL but greater than the MDL in samples taken from monitoring wells; three of these metals were found at concentrations between the MDL and MRL among surface water samples. Only one metal (barium) was detected in groundwater at a concentration above its respective 2L Standard. None of the metals detected in surface water samples exceeded the 2B Standards.

The statistical analyses showed that none of the detected metal concentrations in the monitoring well samples were statistically greater than their respective standards.

Field notes taken during well sampling indicate that the groundwater samples were turbid. Turbidity is caused by fine-grained suspended sediments that may contain naturally occurring metallic ions derived from the parent rock. Some or all of the metals detected in groundwater at the C&D Landfill may be attributed to this source.

3.2 VOLATILE ORGANIC COMPOUNDS

Analytical results indicate that nine VOCs were detected above the MRL in the monitoring well samples and no VOCs were detected at concentrations in excess of the MRL in the surface water samples. Four VOCs were, however, detected at concentrations less than the MRL but greater than the MDL in one or more of the monitoring wells; one of these VOCs was also detected at such a concentration level in surface water samples. Of the detected VOCs, three were in excess of their respective 2L Standards. 1,4-dichlorobenzene was detected in MW-01, MW-03, MW-04, MW-05, and MW-06 at concentrations greater than the respective 2L Standard. Benzene was detected in MW-03, MW-04, MW-05, and MW-06 at concentrations greater than the respective 2L Standard. Tetrachloroethene was detected in excess of its 2L Standard in MW-1 and MW-6.

Altamont will continue to monitor VOCs and metals on a semiannual basis at the Jackson County MSWLF. The next sampling event is scheduled for October 2007.

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Well Sampling Log

FACILITY NAME: Jackson County Landfill
DATE: 4/3/07
LOCATION: Dillsboro, NC
SAMPLING TIME: 11:08
SAMPLING PERSONNEL: J Hazinski / A Priest
WEATHER: Sunny, Warm

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

WELL DEPTH IN FEET (WD): 112.80 DATE:
WATER LEVEL IN FEET (WL): 101.56 DATE: TIME: 10:35
LENGTH OF WATER COLUMN: 11.24 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 1.91 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 5.73 GALLONS
ACTUAL VOLUME PURGED: 5.75 GALLONS

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

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

READING	GALLONS PURGED	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	initial	5.62	156.8	16.1	1.25	138	0.00	
2	2.00	5.58	155.5	16.0	1.36	131	0.42	
3	4.00	5.61	156.1	15.9	1.12	131	0.00	
4	5.75	5.58	155.4	16.1	1.35	146	0.00	
5								
6								
7								
8								
9								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC	1	Appendix I Metals
40 ml GLASS	3	Appendix I VOCs 8260 low level
1 L GLASS		
OTHER		

PROTECTIVE CASING: OK PAD: OK LOCK: OK VEGETATION: Fair ACCESS: GOOD / POOR / Fair

Sampling Personnel Signature: [signature] **Date:** 4/3/07

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

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Well Sampling Log

FACILITY NAME: Jackson County Landfill
DATE: 4/3/07
LOCATION: Dillsboro, NC
SAMPLING TIME: 13:33
SAMPLING PERSONNEL: J Hazinski / A Priest
WEATHER: Warm, Sunny

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

WELL DEPTH IN FEET (WD): 62.75 DATE:
WATER LEVEL IN FEET (WL): 25.95 DATE: TIME: 13:00
LENGTH OF WATER COLUMN : 36.8 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 6.26 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 18.77 GALLONS
ACTUAL VOLUME PURGED: 19.00 GALLONS

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

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

READING	GALLONS PURGED	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	Initial	6.06	141.9	17.2	6.61	122	0.00	
2	6.50	6.23	166.9	16.1	7.16	118	2.26	
3	12.75	6.00	169.3	16.0	7.21	141	1.57	
4	19.00	6.12	167.8	16.0	6.44	142	5.98	
5								
6								
7								
8								
9								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC	1	Appendix I Metals
40 ml GLASS	3	Appendix I VOCs 8260 low level
1 L GLASS		
OTHER		

PROTECTIVE CASING: OK PAD: OK LOCK: OK VEGETATION: OK ACCESS: (GOOD) / POOR

Sampling Personnel Signature: [signature] **Date:** 4/3/07

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

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Well Sampling Log

FACILITY NAME: Jackson County Landfill
DATE: 4/3/07
LOCATION: Dillsboro, NC
SAMPLING TIME: 14:24
SAMPLING PERSONNEL: J Hazinski / A Priest
WEATHER: Sunny, Warm

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

WELL DEPTH IN FEET (WD): 62.50 DATE:
WATER LEVEL IN FEET (WL): 50.50 DATE: TIME: 14:00
LENGTH OF WATER COLUMN : 12.00 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 2.04 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 6.12 GALLONS
ACTUAL VOLUME PURGED: 6.25 GALLONS

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

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

READING	GALLONS PURGED	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	initial	5.57	363	18.6	1.97	181	0.00	
2	2.25	5.60	374	16.7	1.67	162	1.99	
3	4.25	5.65	371	17.0	1.66	162	0.06	
4	6.25	5.58	377	17.4	1.63	166	0.00	
5								
6								
7								
8								
9								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC	1	Appendix I Metals
40 ml GLASS	3	Appendix I VOCs 8260 low level
1 L GLASS		
OTHER		

PROTECTIVE CASING: OK PAD: OK LOCK: OK VEGETATION: OK ACCESS: GOOD / POOR

Sampling Personnel Signature: [signature] **Date:** 4-3-07

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

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Well Sampling Log

FACILITY NAME: Jackson County Landfill
LOCATION: Dillsboro, NC
SAMPLING PERSONNEL: J Hazinski / A Priest

DATE: 4/3/07
SAMPLING TIME: 11:49
WEATHER: Sunny, Warm

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

WELL DEPTH IN FEET (WD): 42.97 DATE:
WATER LEVEL IN FEET (WL): 28.49 DATE: TIME: 11:28
LENGTH OF WATER COLUMN : 14.48 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 2.46 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 7.38 GALLONS
ACTUAL VOLUME PURGED: 7.50 GALLONS

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

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

READING	GALLONS PURGED	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	initial	5.42	458	16.9	1.61	189	0.00	
2	2.5	5.40	590	15.8	1.90	207	15.14	
3	5.0	5.43	594	16.1	2.52	205	30.54	
4	7.5	5.47	602	16.3	2.54	201	21.53	
5								
6								
7								
8								
9								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC	1	Appendix I Metals
40 ml GLASS	3	Appendix I VOCs 8260 low level
1 L GLASS		
OTHER		

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

Sampling Personnel Signature: [signature] **Date:** 4-3-07

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

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

Well Sampling Log

FACILITY NAME: Jackson County Landfill
LOCATION: Dillsboro, NC
SAMPLING PERSONNEL: J Hazinski / A Priest

DATE: 4/3/07
SAMPLING TIME: 9:34
WEATHER: Cool P. Cloudy

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

WELL DEPTH IN FEET (WD): 60.12 DATE:
WATER LEVEL IN FEET (WL): 50.63 DATE: TIME: 9:09
LENGTH OF WATER COLUMN : 9.49 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 1.61 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 4.84 GALLONS
ACTUAL VOLUME PURGED: 5.00 GALLONS

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

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

READING	GALLONS PURGED	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	Initial	5.95	696	16.0	1.15	88	22.26	
2	1.75	5.97	688	15.9	1.62	85	451.6	
3	3.50	5.99	615	15.7	3.70	71	657.0	
4	5.00	5.98	616	15.5	3.98	71	391.4	
5								
6								
7								
8								
9								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC	1	Appendix I Metals
40 ml GLASS	3	Appendix I VOCs 8260 low level
1 L GLASS		
OTHER		

PROTECTIVE CASING: OK PAD: OK LOCK: OK VEGETATION: OK ACCESS: GOOD / POOR

Sampling Personnel Signature: [signature] **Date:** 4/3/07

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

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Well Sampling Log

FACILITY NAME: Jackson County Landfill
DATE: 4/3/07
LOCATION: Dillsboro, NC
SAMPLING TIME: 10:20
SAMPLING PERSONNEL: J Hazinski / A Priest
WEATHER: Sunny, Warm

WELL NUMBER: MW-06
WELL DIAMETER: 2"
TYPE OF CASING: PVC
MEASURING POINT: TOC
FLUSH MOUNT / STICK-UP
COMMENTS:

WELL DEPTH IN FEET (WD): 94.00 DATE:
WATER LEVEL IN FEET (WL): 89.25 DATE: TIME: 10:00
LENGTH OF WATER COLUMN : 4.75 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 0.81 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 2.42 GALLONS
ACTUAL VOLUME PURGED: 2.50 GALLONS

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

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

READING	GALLONS PURGED	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	initial	5.47	86.4	16.1	2.04	115	8.94	
2	1.0	5.43	93.6	15.7	1.66	145	159.3	
3	1.75	5.45	103.7	15.5	1.71	147	200.1	
4	2.50	5.44	105.7	15.7	1.78	152	136.3	
5								
6								
7								
8								
9								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC	1	Appendix I Metals
40 ml GLASS	3	Appendix I VOCs 8260 low level
1 L GLASS		
OTHER		

PROTECTIVE CASING: OK PAD: OK LOCK: OK VEGETATION: OK ACCESS: GOOD / POOR / OK

Sampling Personnel Signature: [signature] **Date:** 4/3/07

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

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Surface Water Sampling Log

FACILITY NAME: Jackson County Landfill
DATE: 4/3/07
LOCATION: Dillsboro, NC
SAMPLING TIME: 12:05
SAMPLING PERSONNEL: J Hazinski / A Priest
WEATHER: Sunny, Warm

SAMPLE NAME: SW-01

START TIME: 11:56
END TIME:

COMMENTS: Upstream surface water sample

SAMPLE METHOD: BAILER-DISP. PUMP SYRINGE OTHER:

READING	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	6.94	41.6	14.9	9.55	47	3.71	
2							
3							
4							
5							
6							
7							
8							
9							

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
125 ml PLASTIC		
250 ml PLASTIC	1	Appendix I Metals
500 ml PLASTIC		
40 ml GLASS	3	Appendix I VOCs 8260 low level
1 L GLASS		
OTHER		

VEGETATION: OK ACCESS: OK

Sampling Personnel Signature: [signature] **Date:** 4/3/07

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

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Surface Water Sampling Log

FACILITY NAME: Jackson County Landfill
DATE: 4/3/07
LOCATION: Dillsboro, NC
SAMPLING TIME: 13:47
SAMPLING PERSONNEL: J Hazinski / A Priest
WEATHER: Sunny, Warm

SAMPLE NAME: SW-02

START TIME: 13:37
END TIME:

COMMENTS: Downstream surface water sample.

SAMPLE METHOD: BAILER-DISP. PUMP SYRINGE OTHER:

READING	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	7.01	39.2	16.5	9.75	110	4.98	
2							
3							
4							
5							
6							
7							
8							
9							

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
125 ml PLASTIC		
250 ml PLASTIC	1	Appendix I Metals
500 ml PLASTIC		
40 ml GLASS	3	Appendix I VOCs 8260 low level
1 L GLASS		
OTHER		

VEGETATION: OK ACCESS: OK

Sampling Personnel Signature: [signature] **Date:** 4-3-07

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

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Equipment Documentation & Instrument Calibration Data Sheet

Project Name: Jackson County Landfill
Project Number: 2040.12
Project Location: Dillsboro, NC

Equipment Documentation

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

Equipment Type	Manufacturer	Serial Number	Date of Use	Comments
150-ft Water Level	Heron	7186		
150-ft Water Level	Solinst	26154		
150-ft Water Level	Solinst	22754		
150-ft Water Level	Testwell	150	4-3-07	

Calibration Documentation

Person Conducting Calibration: J Hazinski
Date of Calibration: 4-2-07
Date of Field Measurements: 4-3-07

Meters used to measure field parameters:

Equipment Type	Manufacturer	Serial Number
pH, Cond. & Temp.	Oakton	254199
pH, Cond. & Temp.	Oakton	254197
pH, Cond. & Temp.		

Instrument Readings						
pH 4	pH 7	pH 10	QC pH 7	Conductivity 447 µS	QC Conductivity 84 µS	Comments
Initial: 4.10 Calibrated: 4.00	Initial: 7.01 Calibrated: 7.01	Initial: 9.68 Calibrated: 10.02	Meas: 7.05	Initial: 440 Calibrated: 447	Meas: 83.5	
Initial: Calibrated:	Initial: Calibrated:	Initial: Calibrated:	Meas:	Initial: Calibrated:	Meas:	

Equipment Type	Manufacturer	Serial Number	Site Elevation	DO Reading Initial	Salinity	DO Reading Calibrated
Dissolved Oxygen	YSI	05C1835	2,000'	8.65	NA	8.41

Equipment Type	Manufacturer	Serial Number	Comments
ORP	Oakton	3565002	Note: calibration not necessary according to the manufacturer.
ORP	Oakton	98201	Note: calibration not necessary according to the manufacturer.

Source of Calibration Standards: USA Bluebook

Expiration Date of Calibration Standards: Sept 07

Comments:

Signature and Date:

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

Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

April 26, 2007

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

RE: Lab Project Number: 92141536
Client Project ID: Jackson Co. LF 2040.12

Dear Mr. Ryman:

Enclosed are the analytical results for sample(s) received by the laboratory on April 3, 2007. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals Analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Charlotte laboratory unless otherwise footnoted.

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

Sincerely,

Lorri Patton

Lorri Patton
lorri.patton@pacelabs.com
(828) 254-7176
Project Manager

Enclosures

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Phone: 704.875.9092
Fax: 704.875.9091

SAMPLE SUMMARY

Lab Project Number: 92141536
Client Project ID: Jackson Co. LF 2040.12

Project Sample Number	Sample Number	Client Sample ID	Matrix	Date Collected	Date Received
92141536-001	928211879	MW-01	Water	04/03/07 11:08	04/03/07 15:34
92141536-002	928211887	MW-02	Water	04/03/07 13:33	04/03/07 15:34
92141536-003	928211895	MW-03	Water	04/03/07 14:24	04/03/07 15:34
92141536-004	928211903	MW-04	Water	04/03/07 11:49	04/03/07 15:34
92141536-005	928211911	MW-05	Water	04/03/07 09:34	04/03/07 15:34
92141536-006	928211929	MW-06	Water	04/03/07 10:20	04/03/07 15:34
92141536-007	928211937	SW-01	Water	04/03/07 12:05	04/03/07 15:34
92141536-008	928211945	SW-02	Water	04/03/07 13:47	04/03/07 15:34
92141536-009	928211952	TRIP BLANK	Water	04/03/07	04/03/07 15:34

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SAMPLE ANALYTE COUNT

Lab Project Number: 92141536
Client Project ID: Jackson Co. LF 2040.12

Project Sample Number	Sample No	Client Sample ID	Analysis Code	Analysis Description	Analytes Reported
92141536-001	928211879	MW-01	6010T WL92	Metals by Trace ICP	16
			7470 WL92	Mercury, CVAAS, in Water	1
			8260X WL92	GC/MS VOCs by 8260, low level	54
92141536-002	928211887	MW-02	6010T WL92	Metals by Trace ICP	16
			7470 WL92	Mercury, CVAAS, in Water	1
			8260X WL92	GC/MS VOCs by 8260, low level	54
92141536-003	928211895	MW-03	6010T WL92	Metals by Trace ICP	16
			7470 WL92	Mercury, CVAAS, in Water	1
			8260X WL92	GC/MS VOCs by 8260, low level	54
92141536-004	928211903	MW-04	6010T WL92	Metals by Trace ICP	16
			7470 WL92	Mercury, CVAAS, in Water	1
			8260X WL92	GC/MS VOCs by 8260, low level	54
92141536-005	928211911	MW-05	6010T WL92	Metals by Trace ICP	16
			7470 WL92	Mercury, CVAAS, in Water	1
			8260X WL92	GC/MS VOCs by 8260, low level	54
92141536-006	928211929	MW-06	6010T WL92	Metals by Trace ICP	16
			7470 WL92	Mercury, CVAAS, in Water	1
			8260X WL92	GC/MS VOCs by 8260, low level	54
92141536-007	928211937	SW-01	6010T WL92	Metals by Trace ICP	16
			7470 WL92	Mercury, CVAAS, in Water	1
			8260X WL92	GC/MS VOCs by 8260, low level	54
92141536-008	928211945	SW-02	6010T WL92	Metals by Trace ICP	16
			7470 WL92	Mercury, CVAAS, in Water	1
			8260X WL92	GC/MS VOCs by 8260, low level	54
92141536-009	928211952	TRIP BLANK	8260X WL92	GC/MS VOCs by 8260, low level	54

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Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

Lab Project Number: 92141536
Client Project ID: Jackson Co. LF 2040.12

Lab Sample No: 928211879 Project Sample Number: 92141536-001 Date Collected: 04/03/07 11:08
Client Sample ID: MW-01 Matrix: Water Date Received: 04/03/07 15:34

Parameters	Results		Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
Metals										
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010									
Antimony	ND		ug/l	6.0	2.6	04/11/07 19:17	EWS	7440-36-0		
Arsenic	ND		ug/l	10.	2.7	04/11/07 19:17	EWS	7440-38-2		
Barium	94.	J	ug/l	100	0.19	04/11/07 19:17	EWS	7440-39-3		
Beryllium	ND		ug/l	1.0	0.20	04/11/07 19:17	EWS	7440-41-7		
Cadmium	0.90	J	ug/l	1.0	0.50	04/11/07 19:17	EWS	7440-43-9		
Chromium	0.49	J	ug/l	10.	0.44	04/11/07 19:17	EWS	7440-47-3		
Cobalt	68.		ug/l	10.	0.60	04/11/07 19:17	EWS	7440-48-4		
Copper	1.3	J	ug/l	10.	0.30	04/11/07 19:17	EWS	7440-50-8		
Lead	ND		ug/l	10.	4.0	04/11/07 19:17	EWS	7439-92-1		
Nickel	6.8	J	ug/l	50.	1.7	04/11/07 19:17	EWS	7440-02-0		
Selenium	ND		ug/l	10.	4.3	04/11/07 19:17	EWS	7782-49-2		
Silver	ND		ug/l	10.	0.50	04/11/07 19:17	EWS	7440-22-4		
Thallium	ND		ug/l	5.5	3.3	04/11/07 19:17	EWS	7440-28-0		
Vanadium	ND		ug/l	25.	0.50	04/11/07 19:17	EWS	7440-62-2		
Zinc	21.		ug/l	10.	1.6	04/11/07 19:17	EWS	7440-66-6		
Date Digested	04/10/07 07:00					04/10/07 07:00				
Mercury, CVAAS, in Water	Method: EPA 7470									
Mercury	ND		ug/l	0.20	0.030	04/04/07 14:13	ALV	7439-97-6		
GC/MS Volatiles										
GC/MS VOCs by 8260, low level	Method: EPA 8260									
Acetone	ND		ug/l	25.	1.8	04/05/07 20:42	MCK	67-64-1		
Acrylonitrile	ND		ug/l	5.0	1.6	04/05/07 20:42	MCK	107-13-1		
Benzene	6.2		ug/l	1.0	0.31	04/05/07 20:42	MCK	71-43-2		
Bromochloromethane	ND		ug/l	1.0	0.37	04/05/07 20:42	MCK	74-97-5		
Bromodichloromethane	ND		ug/l	1.0	0.21	04/05/07 20:42	MCK	75-27-4		
Bromoform	ND		ug/l	1.0	0.17	04/05/07 20:42	MCK	75-25-2		
Bromomethane	ND		ug/l	1.0	0.51	04/05/07 20:42	MCK	74-83-9		
2-Butanone (MEK)	ND		ug/l	2.0	1.2	04/05/07 20:42	MCK	78-93-3		
Carbon disulfide	ND		ug/l	2.0	1.1	04/05/07 20:42	MCK	75-15-0		
Carbon tetrachloride	ND		ug/l	1.0	0.27	04/05/07 20:42	MCK	56-23-5		
Chlorobenzene	4.2		ug/l	1.0	0.15	04/05/07 20:42	MCK	108-90-7		
Chloroethane	1.5		ug/l	1.0	0.78	04/05/07 20:42	MCK	75-00-3		
Chloroform	ND		ug/l	1.0	0.29	04/05/07 20:42	MCK	67-66-3		
Chloromethane	ND		ug/l	1.0	0.78	04/05/07 20:42	MCK	74-87-3		
1,2-Dibromo-3-chloropropane	ND		ug/l	1.0	0.39	04/05/07 20:42	MCK	96-12-8		

Asheville Certification IDs
NC Wastewater 40
NC Drinking Water 37712
SC Environmental 99030
FL NELAP E87648

REPORT OF LABORATORY ANALYSIS
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Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

Lab Project Number: 92141536
Client Project ID: Jackson Co. LF 2040.12

Lab Sample No: 928211879 Project Sample Number: 92141536-001 Date Collected: 04/03/07 11:08
Client Sample ID: MW-01 Matrix: Water Date Received: 04/03/07 15:34

Parameters	Results		Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
Dibromochloromethane	ND		ug/l	1.0	0.17	04/05/07 20:42	MCK	124-48-1		
1,2-Dibromoethane (EDB)	ND		ug/l	1.0	0.15	04/05/07 20:42	MCK	106-93-4		
Dibromomethane	ND		ug/l	1.0	0.27	04/05/07 20:42	MCK	74-95-3		
1,2-Dichlorobenzene	0.64	J	ug/l	1.0	0.14	04/05/07 20:42	MCK	95-50-1		
1,4-Dichlorobenzene	15.		ug/l	1.0	0.17	04/05/07 20:42	MCK	106-46-7		
trans-1,4-Dichloro-2-butene	ND		ug/l	1.0	0.28	04/05/07 20:42	MCK	110-57-6		
1,1-Dichloroethane	7.8		ug/l	1.0	0.42	04/05/07 20:42	MCK	75-34-3		
1,2-Dichloroethane	ND		ug/l	1.0	0.18	04/05/07 20:42	MCK	107-06-2		
1,2-Dichloroethene (Total)	11.		ug/l	1.0		04/05/07 20:42	MCK	540-59-0		
1,1-Dichloroethene	ND		ug/l	1.0	0.39	04/05/07 20:42	MCK	75-35-4		
cis-1,2-Dichloroethene	11.		ug/l	1.0	0.33	04/05/07 20:42	MCK	156-59-2		
trans-1,2-Dichloroethene	ND		ug/l	1.0	0.44	04/05/07 20:42	MCK	156-60-5		
1,2-Dichloropropane	ND		ug/l	1.0	0.20	04/05/07 20:42	MCK	78-87-5		
cis-1,3-Dichloropropene	ND		ug/l	1.0	0.17	04/05/07 20:42	MCK	10061-01-5		
trans-1,3-Dichloropropene	ND		ug/l	1.0	0.12	04/05/07 20:42	MCK	10061-02-6		
Ethylbenzene	0.55	J	ug/l	1.0	0.17	04/05/07 20:42	MCK	100-41-4		
2-Hexanone	ND		ug/l	5.0	0.62	04/05/07 20:42	MCK	591-78-6		
Iodomethane	ND		ug/l	5.0	0.65	04/05/07 20:42	MCK	74-88-4		
Methylene chloride	ND		ug/l	2.0	0.46	04/05/07 20:42	MCK	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND		ug/l	5.0	0.66	04/05/07 20:42	MCK	108-10-1		
Styrene	ND		ug/l	1.0	0.15	04/05/07 20:42	MCK	100-42-5		
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	0.25	04/05/07 20:42	MCK	630-20-6		
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	0.24	04/05/07 20:42	MCK	79-34-5		
Tetrachloroethene	1.6		ug/l	1.0	0.16	04/05/07 20:42	MCK	127-18-4		
Toluene	0.56	J	ug/l	1.0	0.24	04/05/07 20:42	MCK	108-88-3		
1,1,1-Trichloroethane	ND		ug/l	1.0	0.35	04/05/07 20:42	MCK	71-55-6		
1,1,2-Trichloroethane	ND		ug/l	1.0	0.16	04/05/07 20:42	MCK	79-00-5		
Trichloroethene	1.6		ug/l	1.0	0.26	04/05/07 20:42	MCK	79-01-6		
Trichlorofluoromethane	ND		ug/l	1.0	0.41	04/05/07 20:42	MCK	75-69-4		
1,2,3-Trichloropropane	ND		ug/l	1.0	0.22	04/05/07 20:42	MCK	96-18-4		
Vinyl acetate	ND		ug/l	1.0	0.80	04/05/07 20:42	MCK	108-05-4		
Vinyl chloride	ND		ug/l	1.0	0.58	04/05/07 20:42	MCK	75-01-4		
Xylene (Total)	12.		ug/l	2.0		04/05/07 20:42	MCK	1330-20-7		
m&p-Xylene	1.3	J	ug/l	2.0	0.39	04/05/07 20:42	MCK			
o-Xylene	11.		ug/l	1.0	0.17	04/05/07 20:42	MCK	95-47-6		
Toluene-d8 (S)	100		%			04/05/07 20:42	MCK	2037-26-5		
4-Bromofluorobenzene (S)	98		%			04/05/07 20:42	MCK	460-00-4		
Dibromofluoromethane (S)	100		%			04/05/07 20:42	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	97		%			04/05/07 20:42	MCK	17060-07-0		

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Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

Lab Project Number: 92141536
Client Project ID: Jackson Co. LF 2040.12

Lab Sample No: 928211887 Project Sample Number: 92141536-002 Date Collected: 04/03/07 13:33
Client Sample ID: MW-02 Matrix: Water Date Received: 04/03/07 15:34

Parameters	Results		Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
Metals										
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010									
Antimony	ND		ug/l	6.0	2.6	04/12/07 21:54	EWS	7440-36-0		
Arsenic	ND		ug/l	10.	2.7	04/12/07 21:54	EWS	7440-38-2		
Barium	54.	J	ug/l	100	0.19	04/12/07 21:54	EWS	7440-39-3		
Beryllium	ND		ug/l	1.0	0.20	04/12/07 21:54	EWS	7440-41-7		
Cadmium	ND		ug/l	1.0	0.50	04/12/07 21:54	EWS	7440-43-9		
Chromium	ND		ug/l	10.	0.44	04/12/07 21:54	EWS	7440-47-3		
Cobalt	6.0	J	ug/l	10.	0.60	04/12/07 21:54	EWS	7440-48-4		
Copper	ND		ug/l	10.	0.30	04/12/07 21:54	EWS	7440-50-8		
Lead	ND		ug/l	10.	4.0	04/12/07 21:54	EWS	7439-92-1		
Nickel	1.9	J	ug/l	50.	1.7	04/12/07 21:54	EWS	7440-02-0		
Selenium	ND		ug/l	10.	4.3	04/12/07 21:54	EWS	7782-49-2		
Silver	ND		ug/l	10.	0.50	04/12/07 21:54	EWS	7440-22-4		
Thallium	ND		ug/l	5.5	3.3	04/12/07 21:54	EWS	7440-28-0		
Vanadium	ND		ug/l	25.	0.50	04/12/07 21:54	EWS	7440-62-2		
Zinc	23.		ug/l	10.	1.6	04/12/07 21:54	EWS	7440-66-6		
Date Digested	04/10/07 09:00					04/10/07 09:00				
Mercury, CVAAS, in Water	Method: EPA 7470									
Mercury	0.040	J	ug/l	0.20	0.030	04/04/07 14:20	ALV	7439-97-6		
GC/MS Volatiles										
GC/MS VOCs by 8260, low level	Method: EPA 8260									
Acetone	ND		ug/l	25.	1.8	04/05/07 21:12	MCK	67-64-1		
Acrylonitrile	ND		ug/l	5.0	1.6	04/05/07 21:12	MCK	107-13-1		
Benzene	ND		ug/l	1.0	0.31	04/05/07 21:12	MCK	71-43-2		
Bromochloromethane	ND		ug/l	1.0	0.37	04/05/07 21:12	MCK	74-97-5		
Bromodichloromethane	ND		ug/l	1.0	0.21	04/05/07 21:12	MCK	75-27-4		
Bromoform	ND		ug/l	1.0	0.17	04/05/07 21:12	MCK	75-25-2		
Bromomethane	ND		ug/l	1.0	0.51	04/05/07 21:12	MCK	74-83-9		
2-Butanone (MEK)	ND		ug/l	2.0	1.2	04/05/07 21:12	MCK	78-93-3		
Carbon disulfide	ND		ug/l	2.0	1.1	04/05/07 21:12	MCK	75-15-0		
Carbon tetrachloride	ND		ug/l	1.0	0.27	04/05/07 21:12	MCK	56-23-5		
Chlorobenzene	0.22	J	ug/l	1.0	0.15	04/05/07 21:12	MCK	108-90-7		
Chloroethane	ND		ug/l	1.0	0.78	04/05/07 21:12	MCK	75-00-3		
Chloroform	ND		ug/l	1.0	0.29	04/05/07 21:12	MCK	67-66-3		
Chloromethane	ND		ug/l	1.0	0.78	04/05/07 21:12	MCK	74-87-3		
1,2-Dibromo-3-chloropropane	ND		ug/l	1.0	0.39	04/05/07 21:12	MCK	96-12-8		

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Pace Analytical Services, Inc.
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Phone: 704.875.9092
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Lab Project Number: 92141536
Client Project ID: Jackson Co. LF 2040.12

Lab Sample No: 928211887 Project Sample Number: 92141536-002 Date Collected: 04/03/07 13:33
Client Sample ID: MW-02 Matrix: Water Date Received: 04/03/07 15:34

Parameters	Results		Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
Dibromochloromethane	ND		ug/l	1.0	0.17	04/05/07 21:12	MCK	124-48-1		
1,2-Dibromoethane (EDB)	ND		ug/l	1.0	0.15	04/05/07 21:12	MCK	106-93-4		
Dibromomethane	ND		ug/l	1.0	0.27	04/05/07 21:12	MCK	74-95-3		
1,2-Dichlorobenzene	0.31	J	ug/l	1.0	0.14	04/05/07 21:12	MCK	95-50-1		
1,4-Dichlorobenzene	0.68	J	ug/l	1.0	0.17	04/05/07 21:12	MCK	106-46-7		
trans-1,4-Dichloro-2-butene	ND		ug/l	1.0	0.28	04/05/07 21:12	MCK	110-57-6		
1,1-Dichloroethane	1.1		ug/l	1.0	0.42	04/05/07 21:12	MCK	75-34-3		
1,2-Dichloroethane	ND		ug/l	1.0	0.18	04/05/07 21:12	MCK	107-06-2		
1,2-Dichloroethene (Total)	1.2		ug/l	1.0		04/05/07 21:12	MCK	540-59-0		
1,1-Dichloroethene	ND		ug/l	1.0	0.39	04/05/07 21:12	MCK	75-35-4		
cis-1,2-Dichloroethene	1.2		ug/l	1.0	0.33	04/05/07 21:12	MCK	156-59-2		
trans-1,2-Dichloroethene	ND		ug/l	1.0	0.44	04/05/07 21:12	MCK	156-60-5		
1,2-Dichloropropane	ND		ug/l	1.0	0.20	04/05/07 21:12	MCK	78-87-5		
cis-1,3-Dichloropropene	ND		ug/l	1.0	0.17	04/05/07 21:12	MCK	10061-01-5		
trans-1,3-Dichloropropene	ND		ug/l	1.0	0.12	04/05/07 21:12	MCK	10061-02-6		
Ethylbenzene	ND		ug/l	1.0	0.17	04/05/07 21:12	MCK	100-41-4		
2-Hexanone	ND		ug/l	5.0	0.62	04/05/07 21:12	MCK	591-78-6		
Iodomethane	ND		ug/l	5.0	0.65	04/05/07 21:12	MCK	74-88-4		
Methylene chloride	ND		ug/l	2.0	0.46	04/05/07 21:12	MCK	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND		ug/l	5.0	0.66	04/05/07 21:12	MCK	108-10-1		
Styrene	ND		ug/l	1.0	0.15	04/05/07 21:12	MCK	100-42-5		
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	0.25	04/05/07 21:12	MCK	630-20-6		
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	0.24	04/05/07 21:12	MCK	79-34-5		
Tetrachloroethene	ND		ug/l	1.0	0.16	04/05/07 21:12	MCK	127-18-4		
Toluene	ND		ug/l	1.0	0.24	04/05/07 21:12	MCK	108-88-3		
1,1,1-Trichloroethane	ND		ug/l	1.0	0.35	04/05/07 21:12	MCK	71-55-6		
1,1,2-Trichloroethane	ND		ug/l	1.0	0.16	04/05/07 21:12	MCK	79-00-5		
Trichloroethene	ND		ug/l	1.0	0.26	04/05/07 21:12	MCK	79-01-6		
Trichlorofluoromethane	ND		ug/l	1.0	0.41	04/05/07 21:12	MCK	75-69-4		
1,2,3-Trichloropropane	ND		ug/l	1.0	0.22	04/05/07 21:12	MCK	96-18-4		
Vinyl acetate	ND		ug/l	1.0	0.80	04/05/07 21:12	MCK	108-05-4		
Vinyl chloride	ND		ug/l	1.0	0.58	04/05/07 21:12	MCK	75-01-4		
Xylene (Total)	ND		ug/l	2.0		04/05/07 21:12	MCK	1330-20-7		
m&p-Xylene	ND		ug/l	2.0	0.39	04/05/07 21:12	MCK			
o-Xylene	ND		ug/l	1.0	0.17	04/05/07 21:12	MCK	95-47-6		
Toluene-d8 (S)	101		%			04/05/07 21:12	MCK	2037-26-5		
4-Bromofluorobenzene (S)	98		%			04/05/07 21:12	MCK	460-00-4		
Dibromofluoromethane (S)	100		%			04/05/07 21:12	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	96		%			04/05/07 21:12	MCK	17060-07-0		

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Phone: 704.875.9092
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Lab Project Number: 92141536
Client Project ID: Jackson Co. LF 2040.12

Lab Sample No: 928211895 Project Sample Number: 92141536-003 Date Collected: 04/03/07 14:24
Client Sample ID: MW-03 Matrix: Water Date Received: 04/03/07 15:34

Parameters	Results		Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
Metals										
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010									
Antimony	ND		ug/l	6.0	2.6	04/12/07 21:58	EWS	7440-36-0		
Arsenic	ND		ug/l	10.	2.7	04/12/07 21:58	EWS	7440-38-2		
Barium	140		ug/l	100	0.19	04/12/07 21:58	EWS	7440-39-3		
Beryllium	ND		ug/l	1.0	0.20	04/12/07 21:58	EWS	7440-41-7		
Cadmium	ND		ug/l	1.0	0.50	04/12/07 21:58	EWS	7440-43-9		
Chromium	ND		ug/l	10.	0.44	04/12/07 21:58	EWS	7440-47-3		
Cobalt	61.		ug/l	10.	0.60	04/12/07 21:58	EWS	7440-48-4		
Copper	ND		ug/l	10.	0.30	04/12/07 21:58	EWS	7440-50-8		
Lead	ND		ug/l	10.	4.0	04/12/07 21:58	EWS	7439-92-1		
Nickel	4.1	J	ug/l	50.	1.7	04/12/07 21:58	EWS	7440-02-0		
Selenium	6.1	J	ug/l	10.	4.3	04/12/07 21:58	EWS	7782-49-2		
Silver	ND		ug/l	10.	0.50	04/12/07 21:58	EWS	7440-22-4		
Thallium	ND		ug/l	5.5	3.3	04/12/07 21:58	EWS	7440-28-0		
Vanadium	ND		ug/l	25.	0.50	04/12/07 21:58	EWS	7440-62-2		
Zinc	21.		ug/l	10.	1.6	04/12/07 21:58	EWS	7440-66-6		
Date Digested	04/10/07 09:00					04/10/07 09:00				
Mercury, CVAAS, in Water	Method: EPA 7470									
Mercury	0.063	J	ug/l	0.20	0.030	04/04/07 14:23	ALV	7439-97-6		
GC/MS Volatiles										
GC/MS VOCs by 8260, low level	Method: EPA 8260									
Acetone	ND		ug/l	25.	1.8	04/05/07 21:42	MCK	67-64-1		
Acrylonitrile	ND		ug/l	5.0	1.6	04/05/07 21:42	MCK	107-13-1		
Benzene	2.0		ug/l	1.0	0.31	04/05/07 21:42	MCK	71-43-2		
Bromochloromethane	ND		ug/l	1.0	0.37	04/05/07 21:42	MCK	74-97-5		
Bromodichloromethane	ND		ug/l	1.0	0.21	04/05/07 21:42	MCK	75-27-4		
Bromoform	ND		ug/l	1.0	0.17	04/05/07 21:42	MCK	75-25-2		
Bromomethane	ND		ug/l	1.0	0.51	04/05/07 21:42	MCK	74-83-9		
2-Butanone (MEK)	ND		ug/l	2.0	1.2	04/05/07 21:42	MCK	78-93-3		
Carbon disulfide	ND		ug/l	2.0	1.1	04/05/07 21:42	MCK	75-15-0		
Carbon tetrachloride	ND		ug/l	1.0	0.27	04/05/07 21:42	MCK	56-23-5		
Chlorobenzene	7.5		ug/l	1.0	0.15	04/05/07 21:42	MCK	108-90-7		
Chloroethane	0.90	J	ug/l	1.0	0.78	04/05/07 21:42	MCK	75-00-3		
Chloroform	ND		ug/l	1.0	0.29	04/05/07 21:42	MCK	67-66-3		
Chloromethane	ND		ug/l	1.0	0.78	04/05/07 21:42	MCK	74-87-3		
1,2-Dibromo-3-chloropropane	ND		ug/l	1.0	0.39	04/05/07 21:42	MCK	96-12-8		

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Lab Project Number: 92141536
Client Project ID: Jackson Co. LF 2040.12

Lab Sample No: 928211895 Project Sample Number: 92141536-003 Date Collected: 04/03/07 14:24
Client Sample ID: MW-03 Matrix: Water Date Received: 04/03/07 15:34

Parameters	Results		Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
Dibromochloromethane	ND		ug/l	1.0	0.17	04/05/07 21:42	MCK	124-48-1		
1,2-Dibromoethane (EDB)	ND		ug/l	1.0	0.15	04/05/07 21:42	MCK	106-93-4		
Dibromomethane	ND		ug/l	1.0	0.27	04/05/07 21:42	MCK	74-95-3		
1,2-Dichlorobenzene	0.86	J	ug/l	1.0	0.14	04/05/07 21:42	MCK	95-50-1		
1,4-Dichlorobenzene	11.		ug/l	1.0	0.17	04/05/07 21:42	MCK	106-46-7		
trans-1,4-Dichloro-2-butene	ND		ug/l	1.0	0.28	04/05/07 21:42	MCK	110-57-6		
1,1-Dichloroethane	2.6		ug/l	1.0	0.42	04/05/07 21:42	MCK	75-34-3		
1,2-Dichloroethane	ND		ug/l	1.0	0.18	04/05/07 21:42	MCK	107-06-2		
1,2-Dichloroethene (Total)	4.4		ug/l	1.0		04/05/07 21:42	MCK	540-59-0		
1,1-Dichloroethene	ND		ug/l	1.0	0.39	04/05/07 21:42	MCK	75-35-4		
cis-1,2-Dichloroethene	4.4		ug/l	1.0	0.33	04/05/07 21:42	MCK	156-59-2		
trans-1,2-Dichloroethene	ND		ug/l	1.0	0.44	04/05/07 21:42	MCK	156-60-5		
1,2-Dichloropropane	ND		ug/l	1.0	0.20	04/05/07 21:42	MCK	78-87-5		
cis-1,3-Dichloropropene	ND		ug/l	1.0	0.17	04/05/07 21:42	MCK	10061-01-5		
trans-1,3-Dichloropropene	ND		ug/l	1.0	0.12	04/05/07 21:42	MCK	10061-02-6		
Ethylbenzene	ND		ug/l	1.0	0.17	04/05/07 21:42	MCK	100-41-4		
2-Hexanone	ND		ug/l	5.0	0.62	04/05/07 21:42	MCK	591-78-6		
Iodomethane	ND		ug/l	5.0	0.65	04/05/07 21:42	MCK	74-88-4		
Methylene chloride	ND		ug/l	2.0	0.46	04/05/07 21:42	MCK	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND		ug/l	5.0	0.66	04/05/07 21:42	MCK	108-10-1		
Styrene	ND		ug/l	1.0	0.15	04/05/07 21:42	MCK	100-42-5		
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	0.25	04/05/07 21:42	MCK	630-20-6		
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	0.24	04/05/07 21:42	MCK	79-34-5		
Tetrachloroethene	0.23	J	ug/l	1.0	0.16	04/05/07 21:42	MCK	127-18-4		
Toluene	ND		ug/l	1.0	0.24	04/05/07 21:42	MCK	108-88-3		
1,1,1-Trichloroethane	ND		ug/l	1.0	0.35	04/05/07 21:42	MCK	71-55-6		
1,1,2-Trichloroethane	ND		ug/l	1.0	0.16	04/05/07 21:42	MCK	79-00-5		
Trichloroethene	0.27	J	ug/l	1.0	0.26	04/05/07 21:42	MCK	79-01-6		
Trichlorofluoromethane	ND		ug/l	1.0	0.41	04/05/07 21:42	MCK	75-69-4		
1,2,3-Trichloropropane	ND		ug/l	1.0	0.22	04/05/07 21:42	MCK	96-18-4		
Vinyl acetate	ND		ug/l	1.0	0.80	04/05/07 21:42	MCK	108-05-4		
Vinyl chloride	ND		ug/l	1.0	0.58	04/05/07 21:42	MCK	75-01-4		
Xylene (Total)	ND		ug/l	2.0		04/05/07 21:42	MCK	1330-20-7		
m&p-Xylene	ND		ug/l	2.0	0.39	04/05/07 21:42	MCK			
o-Xylene	ND		ug/l	1.0	0.17	04/05/07 21:42	MCK	95-47-6		
Toluene-d8 (S)	101		%			04/05/07 21:42	MCK	2037-26-5		
4-Bromofluorobenzene (S)	98		%			04/05/07 21:42	MCK	460-00-4		
Dibromofluoromethane (S)	100		%			04/05/07 21:42	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	96		%			04/05/07 21:42	MCK	17060-07-0		

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Lab Project Number: 92141536
Client Project ID: Jackson Co. LF 2040.12

Lab Sample No: 928211903 Project Sample Number: 92141536-004 Date Collected: 04/03/07 11:49
Client Sample ID: MW-04 Matrix: Water Date Received: 04/03/07 15:34

Parameters	Results		Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
Metals										
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010									
Antimony	ND		ug/l	6.0	2.6	04/12/07 22:03	EWS	7440-36-0		
Arsenic	ND		ug/l	10.	2.7	04/12/07 22:03	EWS	7440-38-2		
Barium	5500		ug/l	100	0.19	04/12/07 22:03	EWS	7440-39-3		
Beryllium	ND		ug/l	1.0	0.20	04/12/07 22:03	EWS	7440-41-7		
Cadmium	ND		ug/l	1.0	0.50	04/12/07 22:03	EWS	7440-43-9		
Chromium	1.1	J	ug/l	10.	0.44	04/12/07 22:03	EWS	7440-47-3		
Cobalt	1.7	J	ug/l	10.	0.60	04/12/07 22:03	EWS	7440-48-4		
Copper	0.35	J	ug/l	10.	0.30	04/12/07 22:03	EWS	7440-50-8		
Lead	ND		ug/l	10.	4.0	04/12/07 22:03	EWS	7439-92-1		
Nickel	ND		ug/l	50.	1.7	04/12/07 22:03	EWS	7440-02-0		
Selenium	4.7	J	ug/l	10.	4.3	04/12/07 22:03	EWS	7782-49-2		
Silver	ND		ug/l	10.	0.50	04/12/07 22:03	EWS	7440-22-4		
Thallium	ND		ug/l	5.5	3.3	04/12/07 22:03	EWS	7440-28-0		
Vanadium	1.8	J	ug/l	25.	0.50	04/12/07 22:03	EWS	7440-62-2		
Zinc	27.		ug/l	10.	1.6	04/12/07 22:03	EWS	7440-66-6		
Date Digested	04/10/07 09:00					04/10/07 09:00				
Mercury, CVAAS, in Water	Method: EPA 7470									
Mercury	0.18	J	ug/l	0.20	0.030	04/04/07 14:25	ALV	7439-97-6		
GC/MS Volatiles										
GC/MS VOCs by 8260, low level	Method: EPA 8260									
Acetone	ND		ug/l	25.	1.8	04/05/07 22:12	MCK	67-64-1		
Acrylonitrile	ND		ug/l	5.0	1.6	04/05/07 22:12	MCK	107-13-1		
Benzene	1.3		ug/l	1.0	0.31	04/05/07 22:12	MCK	71-43-2		
Bromochloromethane	ND		ug/l	1.0	0.37	04/05/07 22:12	MCK	74-97-5		
Bromodichloromethane	ND		ug/l	1.0	0.21	04/05/07 22:12	MCK	75-27-4		
Bromoform	ND		ug/l	1.0	0.17	04/05/07 22:12	MCK	75-25-2		
Bromomethane	ND		ug/l	1.0	0.51	04/05/07 22:12	MCK	74-83-9		
2-Butanone (MEK)	ND		ug/l	2.0	1.2	04/05/07 22:12	MCK	78-93-3		
Carbon disulfide	ND		ug/l	2.0	1.1	04/05/07 22:12	MCK	75-15-0		
Carbon tetrachloride	ND		ug/l	1.0	0.27	04/05/07 22:12	MCK	56-23-5		
Chlorobenzene	6.2		ug/l	1.0	0.15	04/05/07 22:12	MCK	108-90-7		
Chloroethane	ND		ug/l	1.0	0.78	04/05/07 22:12	MCK	75-00-3		
Chloroform	ND		ug/l	1.0	0.29	04/05/07 22:12	MCK	67-66-3		
Chloromethane	ND		ug/l	1.0	0.78	04/05/07 22:12	MCK	74-87-3		
1,2-Dibromo-3-chloropropane	ND		ug/l	1.0	0.39	04/05/07 22:12	MCK	96-12-8		

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Pace Analytical Services, Inc.
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Lab Project Number: 92141536
Client Project ID: Jackson Co. LF 2040.12

Lab Sample No: 928211903 Project Sample Number: 92141536-004 Date Collected: 04/03/07 11:49
Client Sample ID: MW-04 Matrix: Water Date Received: 04/03/07 15:34

Parameters	Results		Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
Dibromochloromethane	ND		ug/l	1.0	0.17	04/05/07 22:12	MCK	124-48-1		
1,2-Dibromoethane (EDB)	ND		ug/l	1.0	0.15	04/05/07 22:12	MCK	106-93-4		
Dibromomethane	ND		ug/l	1.0	0.27	04/05/07 22:12	MCK	74-95-3		
1,2-Dichlorobenzene	0.69	J	ug/l	1.0	0.14	04/05/07 22:12	MCK	95-50-1		
1,4-Dichlorobenzene	8.4		ug/l	1.0	0.17	04/05/07 22:12	MCK	106-46-7		
trans-1,4-Dichloro-2-butene	ND		ug/l	1.0	0.28	04/05/07 22:12	MCK	110-57-6		
1,1-Dichloroethane	0.50	J	ug/l	1.0	0.42	04/05/07 22:12	MCK	75-34-3		
1,2-Dichloroethane	ND		ug/l	1.0	0.18	04/05/07 22:12	MCK	107-06-2		
1,2-Dichloroethene (Total)	11.		ug/l	1.0		04/05/07 22:12	MCK	540-59-0		
1,1-Dichloroethene	ND		ug/l	1.0	0.39	04/05/07 22:12	MCK	75-35-4		
cis-1,2-Dichloroethene	11.		ug/l	1.0	0.33	04/05/07 22:12	MCK	156-59-2		
trans-1,2-Dichloroethene	ND		ug/l	1.0	0.44	04/05/07 22:12	MCK	156-60-5		
1,2-Dichloropropane	ND		ug/l	1.0	0.20	04/05/07 22:12	MCK	78-87-5		
cis-1,3-Dichloropropene	ND		ug/l	1.0	0.17	04/05/07 22:12	MCK	10061-01-5		
trans-1,3-Dichloropropene	ND		ug/l	1.0	0.12	04/05/07 22:12	MCK	10061-02-6		
Ethylbenzene	ND		ug/l	1.0	0.17	04/05/07 22:12	MCK	100-41-4		
2-Hexanone	ND		ug/l	5.0	0.62	04/05/07 22:12	MCK	591-78-6		
Iodomethane	ND		ug/l	5.0	0.65	04/05/07 22:12	MCK	74-88-4		
Methylene chloride	ND		ug/l	2.0	0.46	04/05/07 22:12	MCK	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND		ug/l	5.0	0.66	04/05/07 22:12	MCK	108-10-1		
Styrene	ND		ug/l	1.0	0.15	04/05/07 22:12	MCK	100-42-5		
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	0.25	04/05/07 22:12	MCK	630-20-6		
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	0.24	04/05/07 22:12	MCK	79-34-5		
Tetrachloroethene	0.38	J	ug/l	1.0	0.16	04/05/07 22:12	MCK	127-18-4		
Toluene	ND		ug/l	1.0	0.24	04/05/07 22:12	MCK	108-88-3		
1,1,1-Trichloroethane	ND		ug/l	1.0	0.35	04/05/07 22:12	MCK	71-55-6		
1,1,2-Trichloroethane	ND		ug/l	1.0	0.16	04/05/07 22:12	MCK	79-00-5		
Trichloroethene	0.38	J	ug/l	1.0	0.26	04/05/07 22:12	MCK	79-01-6		
Trichlorofluoromethane	ND		ug/l	1.0	0.41	04/05/07 22:12	MCK	75-69-4		
1,2,3-Trichloropropane	ND		ug/l	1.0	0.22	04/05/07 22:12	MCK	96-18-4		
Vinyl acetate	ND		ug/l	1.0	0.80	04/05/07 22:12	MCK	108-05-4		
Vinyl chloride	ND		ug/l	1.0	0.58	04/05/07 22:12	MCK	75-01-4		
Xylene (Total)	ND		ug/l	2.0		04/05/07 22:12	MCK	1330-20-7		
m&p-Xylene	ND		ug/l	2.0	0.39	04/05/07 22:12	MCK			
o-Xylene	ND		ug/l	1.0	0.17	04/05/07 22:12	MCK	95-47-6		
Toluene-d8 (S)	100		%			04/05/07 22:12	MCK	2037-26-5		
4-Bromofluorobenzene (S)	96		%			04/05/07 22:12	MCK	460-00-4		
Dibromofluoromethane (S)	99		%			04/05/07 22:12	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	96		%			04/05/07 22:12	MCK	17060-07-0		

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Pace Analytical Services, Inc.
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Lab Project Number: 92141536
Client Project ID: Jackson Co. LF 2040.12

Lab Sample No: 928211911 Project Sample Number: 92141536-005 Date Collected: 04/03/07 09:34
Client Sample ID: MW-05 Matrix: Water Date Received: 04/03/07 15:34

Parameters	Results		Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
Metals										
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010									
Antimony	ND		ug/l	6.0	2.6	04/12/07 22:08	EWS	7440-36-0		
Arsenic	ND		ug/l	10.	2.7	04/12/07 22:08	EWS	7440-38-2		
Barium	310		ug/l	100	0.19	04/12/07 22:08	EWS	7440-39-3		
Beryllium	0.74	J	ug/l	1.0	0.20	04/12/07 22:08	EWS	7440-41-7		
Cadmium	ND		ug/l	1.0	0.50	04/12/07 22:08	EWS	7440-43-9		
Chromium	4.5	J	ug/l	10.	0.44	04/12/07 22:08	EWS	7440-47-3		
Cobalt	ND		ug/l	10.	0.60	04/12/07 22:08	EWS	7440-48-4		
Copper	27.		ug/l	10.	0.30	04/12/07 22:08	EWS	7440-50-8		
Lead	6.3	J	ug/l	10.	4.0	04/12/07 22:08	EWS	7439-92-1		
Nickel	9.8	J	ug/l	50.	1.7	04/12/07 22:08	EWS	7440-02-0		
Selenium	11.		ug/l	10.	4.3	04/12/07 22:08	EWS	7782-49-2		
Silver	ND		ug/l	10.	0.50	04/12/07 22:08	EWS	7440-22-4		
Thallium	ND		ug/l	5.5	3.3	04/12/07 22:08	EWS	7440-28-0		
Vanadium	21.	J	ug/l	25.	0.50	04/12/07 22:08	EWS	7440-62-2		
Zinc	54.		ug/l	10.	1.6	04/12/07 22:08	EWS	7440-66-6		
Date Digested	04/10/07 09:00					04/10/07 09:00				
Mercury, CVAAS, in Water	Method: EPA 7470									
Mercury	0.13	J	ug/l	0.20	0.030	04/04/07 14:27	ALV	7439-97-6		
GC/MS Volatiles										
GC/MS VOCs by 8260, low level	Method: EPA 8260									
Acetone	ND		ug/l	25.	1.8	04/05/07 22:42	MCK	67-64-1		
Acrylonitrile	ND		ug/l	5.0	1.6	04/05/07 22:42	MCK	107-13-1		
Benzene	1.9		ug/l	1.0	0.31	04/05/07 22:42	MCK	71-43-2		
Bromochloromethane	ND		ug/l	1.0	0.37	04/05/07 22:42	MCK	74-97-5		
Bromodichloromethane	ND		ug/l	1.0	0.21	04/05/07 22:42	MCK	75-27-4		
Bromoform	ND		ug/l	1.0	0.17	04/05/07 22:42	MCK	75-25-2		
Bromomethane	ND		ug/l	1.0	0.51	04/05/07 22:42	MCK	74-83-9		
2-Butanone (MEK)	ND		ug/l	2.0	1.2	04/05/07 22:42	MCK	78-93-3		
Carbon disulfide	ND		ug/l	2.0	1.1	04/05/07 22:42	MCK	75-15-0		
Carbon tetrachloride	ND		ug/l	1.0	0.27	04/05/07 22:42	MCK	56-23-5		
Chlorobenzene	7.9		ug/l	1.0	0.15	04/05/07 22:42	MCK	108-90-7		
Chloroethane	ND		ug/l	1.0	0.78	04/05/07 22:42	MCK	75-00-3		
Chloroform	ND		ug/l	1.0	0.29	04/05/07 22:42	MCK	67-66-3		
Chloromethane	ND		ug/l	1.0	0.78	04/05/07 22:42	MCK	74-87-3		
1,2-Dibromo-3-chloropropane	ND		ug/l	1.0	0.39	04/05/07 22:42	MCK	96-12-8		

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Pace Analytical Services, Inc.
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Lab Project Number: 92141536
Client Project ID: Jackson Co. LF 2040.12

Lab Sample No: 928211911 Project Sample Number: 92141536-005 Date Collected: 04/03/07 09:34
Client Sample ID: MW-05 Matrix: Water Date Received: 04/03/07 15:34

Parameters	Results		Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
Dibromochloromethane	ND		ug/l	1.0	0.17	04/05/07 22:42	MCK	124-48-1		
1,2-Dibromoethane (EDB)	ND		ug/l	1.0	0.15	04/05/07 22:42	MCK	106-93-4		
Dibromomethane	ND		ug/l	1.0	0.27	04/05/07 22:42	MCK	74-95-3		
1,2-Dichlorobenzene	0.80	J	ug/l	1.0	0.14	04/05/07 22:42	MCK	95-50-1		
1,4-Dichlorobenzene	17.		ug/l	1.0	0.17	04/05/07 22:42	MCK	106-46-7		
trans-1,4-Dichloro-2-butene	ND		ug/l	1.0	0.28	04/05/07 22:42	MCK	110-57-6		
1,1-Dichloroethane	0.49	J	ug/l	1.0	0.42	04/05/07 22:42	MCK	75-34-3		
1,2-Dichloroethane	ND		ug/l	1.0	0.18	04/05/07 22:42	MCK	107-06-2		
1,2-Dichloroethene (Total)	32.		ug/l	1.0		04/05/07 22:42	MCK	540-59-0		
1,1-Dichloroethene	ND		ug/l	1.0	0.39	04/05/07 22:42	MCK	75-35-4		
cis-1,2-Dichloroethene	32.		ug/l	1.0	0.33	04/05/07 22:42	MCK	156-59-2		
trans-1,2-Dichloroethene	ND		ug/l	1.0	0.44	04/05/07 22:42	MCK	156-60-5		
1,2-Dichloropropane	ND		ug/l	1.0	0.20	04/05/07 22:42	MCK	78-87-5		
cis-1,3-Dichloropropene	ND		ug/l	1.0	0.17	04/05/07 22:42	MCK	10061-01-5		
trans-1,3-Dichloropropene	ND		ug/l	1.0	0.12	04/05/07 22:42	MCK	10061-02-6		
Ethylbenzene	ND		ug/l	1.0	0.17	04/05/07 22:42	MCK	100-41-4		
2-Hexanone	ND		ug/l	5.0	0.62	04/05/07 22:42	MCK	591-78-6		
Iodomethane	ND		ug/l	5.0	0.65	04/05/07 22:42	MCK	74-88-4		
Methylene chloride	ND		ug/l	2.0	0.46	04/05/07 22:42	MCK	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND		ug/l	5.0	0.66	04/05/07 22:42	MCK	108-10-1		
Styrene	ND		ug/l	1.0	0.15	04/05/07 22:42	MCK	100-42-5		
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	0.25	04/05/07 22:42	MCK	630-20-6		
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	0.24	04/05/07 22:42	MCK	79-34-5		
Tetrachloroethene	ND		ug/l	1.0	0.16	04/05/07 22:42	MCK	127-18-4		
Toluene	ND		ug/l	1.0	0.24	04/05/07 22:42	MCK	108-88-3		
1,1,1-Trichloroethane	ND		ug/l	1.0	0.35	04/05/07 22:42	MCK	71-55-6		
1,1,2-Trichloroethane	ND		ug/l	1.0	0.16	04/05/07 22:42	MCK	79-00-5		
Trichloroethene	ND		ug/l	1.0	0.26	04/05/07 22:42	MCK	79-01-6		
Trichlorofluoromethane	ND		ug/l	1.0	0.41	04/05/07 22:42	MCK	75-69-4		
1,2,3-Trichloropropane	ND		ug/l	1.0	0.22	04/05/07 22:42	MCK	96-18-4		
Vinyl acetate	ND		ug/l	1.0	0.80	04/05/07 22:42	MCK	108-05-4		
Vinyl chloride	ND		ug/l	1.0	0.58	04/05/07 22:42	MCK	75-01-4		
Xylene (Total)	ND		ug/l	2.0		04/05/07 22:42	MCK	1330-20-7		
m&p-Xylene	ND		ug/l	2.0	0.39	04/05/07 22:42	MCK			
o-Xylene	ND		ug/l	1.0	0.17	04/05/07 22:42	MCK	95-47-6		
Toluene-d8 (S)	100		%			04/05/07 22:42	MCK	2037-26-5		
4-Bromofluorobenzene (S)	99		%			04/05/07 22:42	MCK	460-00-4		
Dibromofluoromethane (S)	100		%			04/05/07 22:42	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	96		%			04/05/07 22:42	MCK	17060-07-0		

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Lab Project Number: 92141536
Client Project ID: Jackson Co. LF 2040.12

Lab Sample No: 928211929 Project Sample Number: 92141536-006 Date Collected: 04/03/07 10:20
Client Sample ID: MW-06 Matrix: Water Date Received: 04/03/07 15:34

Parameters	Results		Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
Metals										
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010									
Antimony	ND		ug/l	6.0	2.6	04/12/07 22:12	EWS	7440-36-0		
Arsenic	ND		ug/l	10.	2.7	04/12/07 22:12	EWS	7440-38-2		
Barium	68.	J	ug/l	100	0.19	04/12/07 22:12	EWS	7440-39-3		
Beryllium	ND		ug/l	1.0	0.20	04/12/07 22:12	EWS	7440-41-7		
Cadmium	ND		ug/l	1.0	0.50	04/12/07 22:12	EWS	7440-43-9		
Chromium	2.4	J	ug/l	10.	0.44	04/12/07 22:12	EWS	7440-47-3		
Cobalt	4.9	J	ug/l	10.	0.60	04/12/07 22:12	EWS	7440-48-4		
Copper	7.5	J	ug/l	10.	0.30	04/12/07 22:12	EWS	7440-50-8		
Lead	ND		ug/l	10.	4.0	04/12/07 22:12	EWS	7439-92-1		
Nickel	5.7	J	ug/l	50.	1.7	04/12/07 22:12	EWS	7440-02-0		
Selenium	ND		ug/l	10.	4.3	04/12/07 22:12	EWS	7782-49-2		
Silver	ND		ug/l	10.	0.50	04/12/07 22:12	EWS	7440-22-4		
Thallium	ND		ug/l	5.5	3.3	04/12/07 22:12	EWS	7440-28-0		
Vanadium	5.7	J	ug/l	25.	0.50	04/12/07 22:12	EWS	7440-62-2		
Zinc	31.		ug/l	10.	1.6	04/12/07 22:12	EWS	7440-66-6		
Date Digested	04/10/07 09:00					04/10/07 09:00				
Mercury, CVAAS, in Water	Method: EPA 7470									
Mercury	ND		ug/l	0.20	0.030	04/04/07 14:30	ALV	7439-97-6		
GC/MS Volatiles										
GC/MS VOCs by 8260, low level	Method: EPA 8260									
Acetone	ND		ug/l	25.	1.8	04/05/07 23:12	MCK	67-64-1		
Acrylonitrile	ND		ug/l	5.0	1.6	04/05/07 23:12	MCK	107-13-1		
Benzene	4.7		ug/l	1.0	0.31	04/05/07 23:12	MCK	71-43-2		
Bromochloromethane	ND		ug/l	1.0	0.37	04/05/07 23:12	MCK	74-97-5		
Bromodichloromethane	ND		ug/l	1.0	0.21	04/05/07 23:12	MCK	75-27-4		
Bromoform	ND		ug/l	1.0	0.17	04/05/07 23:12	MCK	75-25-2		
Bromomethane	ND		ug/l	1.0	0.51	04/05/07 23:12	MCK	74-83-9		
2-Butanone (MEK)	ND		ug/l	2.0	1.2	04/05/07 23:12	MCK	78-93-3		
Carbon disulfide	ND		ug/l	2.0	1.1	04/05/07 23:12	MCK	75-15-0		
Carbon tetrachloride	ND		ug/l	1.0	0.27	04/05/07 23:12	MCK	56-23-5		
Chlorobenzene	3.7		ug/l	1.0	0.15	04/05/07 23:12	MCK	108-90-7		
Chloroethane	1.1		ug/l	1.0	0.78	04/05/07 23:12	MCK	75-00-3		
Chloroform	ND		ug/l	1.0	0.29	04/05/07 23:12	MCK	67-66-3		
Chloromethane	ND		ug/l	1.0	0.78	04/05/07 23:12	MCK	74-87-3		
1,2-Dibromo-3-chloropropane	ND		ug/l	1.0	0.39	04/05/07 23:12	MCK	96-12-8		

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Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

Lab Project Number: 92141536
Client Project ID: Jackson Co. LF 2040.12

Lab Sample No: 928211929 Project Sample Number: 92141536-006 Date Collected: 04/03/07 10:20
Client Sample ID: MW-06 Matrix: Water Date Received: 04/03/07 15:34

Parameters	Results		Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
Dibromochloromethane	ND		ug/l	1.0	0.17	04/05/07 23:12	MCK	124-48-1		
1,2-Dibromoethane (EDB)	ND		ug/l	1.0	0.15	04/05/07 23:12	MCK	106-93-4		
Dibromomethane	ND		ug/l	1.0	0.27	04/05/07 23:12	MCK	74-95-3		
1,2-Dichlorobenzene	0.62	J	ug/l	1.0	0.14	04/05/07 23:12	MCK	95-50-1		
1,4-Dichlorobenzene	13.		ug/l	1.0	0.17	04/05/07 23:12	MCK	106-46-7		
trans-1,4-Dichloro-2-butene	ND		ug/l	1.0	0.28	04/05/07 23:12	MCK	110-57-6		
1,1-Dichloroethane	9.7		ug/l	1.0	0.42	04/05/07 23:12	MCK	75-34-3		
1,2-Dichloroethane	ND		ug/l	1.0	0.18	04/05/07 23:12	MCK	107-06-2		
1,2-Dichloroethene (Total)	12.		ug/l	1.0		04/05/07 23:12	MCK	540-59-0		
1,1-Dichloroethene	ND		ug/l	1.0	0.39	04/05/07 23:12	MCK	75-35-4		
cis-1,2-Dichloroethene	12.		ug/l	1.0	0.33	04/05/07 23:12	MCK	156-59-2		
trans-1,2-Dichloroethene	ND		ug/l	1.0	0.44	04/05/07 23:12	MCK	156-60-5		
1,2-Dichloropropane	ND		ug/l	1.0	0.20	04/05/07 23:12	MCK	78-87-5		
cis-1,3-Dichloropropene	ND		ug/l	1.0	0.17	04/05/07 23:12	MCK	10061-01-5		
trans-1,3-Dichloropropene	ND		ug/l	1.0	0.12	04/05/07 23:12	MCK	10061-02-6		
Ethylbenzene	ND		ug/l	1.0	0.17	04/05/07 23:12	MCK	100-41-4		
2-Hexanone	ND		ug/l	5.0	0.62	04/05/07 23:12	MCK	591-78-6		
Iodomethane	ND		ug/l	5.0	0.65	04/05/07 23:12	MCK	74-88-4		
Methylene chloride	ND		ug/l	2.0	0.46	04/05/07 23:12	MCK	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND		ug/l	5.0	0.66	04/05/07 23:12	MCK	108-10-1		
Styrene	ND		ug/l	1.0	0.15	04/05/07 23:12	MCK	100-42-5		
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	0.25	04/05/07 23:12	MCK	630-20-6		
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	0.24	04/05/07 23:12	MCK	79-34-5		
Tetrachloroethene	1.3		ug/l	1.0	0.16	04/05/07 23:12	MCK	127-18-4		
Toluene	ND		ug/l	1.0	0.24	04/05/07 23:12	MCK	108-88-3		
1,1,1-Trichloroethane	ND		ug/l	1.0	0.35	04/05/07 23:12	MCK	71-55-6		
1,1,2-Trichloroethane	ND		ug/l	1.0	0.16	04/05/07 23:12	MCK	79-00-5		
Trichloroethene	1.5		ug/l	1.0	0.26	04/05/07 23:12	MCK	79-01-6		
Trichlorofluoromethane	ND		ug/l	1.0	0.41	04/05/07 23:12	MCK	75-69-4		
1,2,3-Trichloropropane	ND		ug/l	1.0	0.22	04/05/07 23:12	MCK	96-18-4		
Vinyl acetate	ND		ug/l	1.0	0.80	04/05/07 23:12	MCK	108-05-4		
Vinyl chloride	ND		ug/l	1.0	0.58	04/05/07 23:12	MCK	75-01-4		
Xylene (Total)	ND		ug/l	2.0		04/05/07 23:12	MCK	1330-20-7		
m&p-Xylene	ND		ug/l	2.0	0.39	04/05/07 23:12	MCK			
o-Xylene	0.42	J	ug/l	1.0	0.17	04/05/07 23:12	MCK	95-47-6		
Toluene-d8 (S)	100		%			04/05/07 23:12	MCK	2037-26-5		
4-Bromofluorobenzene (S)	98		%			04/05/07 23:12	MCK	460-00-4		
Dibromofluoromethane (S)	101		%			04/05/07 23:12	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	97		%			04/05/07 23:12	MCK	17060-07-0		

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Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
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Phone: 704.875.9092
Fax: 704.875.9091

Lab Project Number: 92141536
Client Project ID: Jackson Co. LF 2040.12

Lab Sample No: 928211937 Project Sample Number: 92141536-007 Date Collected: 04/03/07 12:05
Client Sample ID: SW-01 Matrix: Water Date Received: 04/03/07 15:34

Parameters	Results		Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
Metals										
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010									
Antimony	ND		ug/l	6.0	2.6	04/12/07 22:16	EWS	7440-36-0		
Arsenic	ND		ug/l	10.	2.7	04/12/07 22:16	EWS	7440-38-2		
Barium	15.	J	ug/l	100	0.19	04/12/07 22:16	EWS	7440-39-3		
Beryllium	ND		ug/l	1.0	0.20	04/12/07 22:16	EWS	7440-41-7		
Cadmium	ND		ug/l	1.0	0.50	04/12/07 22:16	EWS	7440-43-9		
Chromium	ND		ug/l	10.	0.44	04/12/07 22:16	EWS	7440-47-3		
Cobalt	ND		ug/l	10.	0.60	04/12/07 22:16	EWS	7440-48-4		
Copper	ND		ug/l	10.	0.30	04/12/07 22:16	EWS	7440-50-8		
Lead	ND		ug/l	10.	4.0	04/12/07 22:16	EWS	7439-92-1		
Nickel	ND		ug/l	50.	1.7	04/12/07 22:16	EWS	7440-02-0		
Selenium	ND		ug/l	10.	4.3	04/12/07 22:16	EWS	7782-49-2		
Silver	ND		ug/l	10.	0.50	04/12/07 22:16	EWS	7440-22-4		
Thallium	ND		ug/l	5.5	3.3	04/12/07 22:16	EWS	7440-28-0		
Vanadium	ND		ug/l	25.	0.50	04/12/07 22:16	EWS	7440-62-2		
Zinc	8.4	J	ug/l	10.	1.6	04/12/07 22:16	EWS	7440-66-6		
Date Digested	04/10/07 09:00					04/10/07 09:00				
Mercury, CVAAS, in Water	Method: EPA 7470									
Mercury	ND		ug/l	0.20	0.030	04/04/07 14:32	ALV	7439-97-6		
GC/MS Volatiles										
GC/MS VOCs by 8260, low level	Method: EPA 8260									
Acetone	ND		ug/l	25.	1.8	04/05/07 23:42	MCK	67-64-1		
Acrylonitrile	ND		ug/l	5.0	1.6	04/05/07 23:42	MCK	107-13-1		
Benzene	ND		ug/l	1.0	0.31	04/05/07 23:42	MCK	71-43-2		
Bromochloromethane	ND		ug/l	1.0	0.37	04/05/07 23:42	MCK	74-97-5		
Bromodichloromethane	ND		ug/l	1.0	0.21	04/05/07 23:42	MCK	75-27-4		
Bromoform	ND		ug/l	1.0	0.17	04/05/07 23:42	MCK	75-25-2		
Bromomethane	ND		ug/l	1.0	0.51	04/05/07 23:42	MCK	74-83-9		
2-Butanone (MEK)	ND		ug/l	2.0	1.2	04/05/07 23:42	MCK	78-93-3		
Carbon disulfide	ND		ug/l	2.0	1.1	04/05/07 23:42	MCK	75-15-0		
Carbon tetrachloride	ND		ug/l	1.0	0.27	04/05/07 23:42	MCK	56-23-5		
Chlorobenzene	ND		ug/l	1.0	0.15	04/05/07 23:42	MCK	108-90-7		
Chloroethane	ND		ug/l	1.0	0.78	04/05/07 23:42	MCK	75-00-3		
Chloroform	ND		ug/l	1.0	0.29	04/05/07 23:42	MCK	67-66-3		
Chloromethane	ND		ug/l	1.0	0.78	04/05/07 23:42	MCK	74-87-3		
1,2-Dibromo-3-chloropropane	ND		ug/l	1.0	0.39	04/05/07 23:42	MCK	96-12-8		

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Phone: 704.875.9092
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Lab Project Number: 92141536
Client Project ID: Jackson Co. LF 2040.12

Lab Sample No: 928211937 Project Sample Number: 92141536-007 Date Collected: 04/03/07 12:05
Client Sample ID: SW-01 Matrix: Water Date Received: 04/03/07 15:34

Parameters	Results		Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
Dibromochloromethane	ND		ug/l	1.0	0.17	04/05/07 23:42	MCK	124-48-1		
1,2-Dibromoethane (EDB)	ND		ug/l	1.0	0.15	04/05/07 23:42	MCK	106-93-4		
Dibromomethane	ND		ug/l	1.0	0.27	04/05/07 23:42	MCK	74-95-3		
1,2-Dichlorobenzene	0.26	J	ug/l	1.0	0.14	04/05/07 23:42	MCK	95-50-1		
1,4-Dichlorobenzene	ND		ug/l	1.0	0.17	04/05/07 23:42	MCK	106-46-7		
trans-1,4-Dichloro-2-butene	ND		ug/l	1.0	0.28	04/05/07 23:42	MCK	110-57-6		
1,1-Dichloroethane	ND		ug/l	1.0	0.42	04/05/07 23:42	MCK	75-34-3		
1,2-Dichloroethane	ND		ug/l	1.0	0.18	04/05/07 23:42	MCK	107-06-2		
1,2-Dichloroethene (Total)	ND		ug/l	1.0		04/05/07 23:42	MCK	540-59-0		
1,1-Dichloroethene	ND		ug/l	1.0	0.39	04/05/07 23:42	MCK	75-35-4		
cis-1,2-Dichloroethene	ND		ug/l	1.0	0.33	04/05/07 23:42	MCK	156-59-2		
trans-1,2-Dichloroethene	ND		ug/l	1.0	0.44	04/05/07 23:42	MCK	156-60-5		
1,2-Dichloropropane	ND		ug/l	1.0	0.20	04/05/07 23:42	MCK	78-87-5		
cis-1,3-Dichloropropene	ND		ug/l	1.0	0.17	04/05/07 23:42	MCK	10061-01-5		
trans-1,3-Dichloropropene	ND		ug/l	1.0	0.12	04/05/07 23:42	MCK	10061-02-6		
Ethylbenzene	ND		ug/l	1.0	0.17	04/05/07 23:42	MCK	100-41-4		
2-Hexanone	ND		ug/l	5.0	0.62	04/05/07 23:42	MCK	591-78-6		
Iodomethane	ND		ug/l	5.0	0.65	04/05/07 23:42	MCK	74-88-4		
Methylene chloride	ND		ug/l	2.0	0.46	04/05/07 23:42	MCK	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND		ug/l	5.0	0.66	04/05/07 23:42	MCK	108-10-1		
Styrene	ND		ug/l	1.0	0.15	04/05/07 23:42	MCK	100-42-5		
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	0.25	04/05/07 23:42	MCK	630-20-6		
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	0.24	04/05/07 23:42	MCK	79-34-5		
Tetrachloroethene	ND		ug/l	1.0	0.16	04/05/07 23:42	MCK	127-18-4		
Toluene	ND		ug/l	1.0	0.24	04/05/07 23:42	MCK	108-88-3		
1,1,1-Trichloroethane	ND		ug/l	1.0	0.35	04/05/07 23:42	MCK	71-55-6		
1,1,2-Trichloroethane	ND		ug/l	1.0	0.16	04/05/07 23:42	MCK	79-00-5		
Trichloroethene	ND		ug/l	1.0	0.26	04/05/07 23:42	MCK	79-01-6		
Trichlorofluoromethane	ND		ug/l	1.0	0.41	04/05/07 23:42	MCK	75-69-4		
1,2,3-Trichloropropane	ND		ug/l	1.0	0.22	04/05/07 23:42	MCK	96-18-4		
Vinyl acetate	ND		ug/l	1.0	0.80	04/05/07 23:42	MCK	108-05-4		
Vinyl chloride	ND		ug/l	1.0	0.58	04/05/07 23:42	MCK	75-01-4		
Xylene (Total)	ND		ug/l	2.0		04/05/07 23:42	MCK	1330-20-7		
m&p-Xylene	ND		ug/l	2.0	0.39	04/05/07 23:42	MCK			
o-Xylene	ND		ug/l	1.0	0.17	04/05/07 23:42	MCK	95-47-6		
Toluene-d8 (S)	100		%			04/05/07 23:42	MCK	2037-26-5		
4-Bromofluorobenzene (S)	98		%			04/05/07 23:42	MCK	460-00-4		
Dibromofluoromethane (S)	99		%			04/05/07 23:42	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	96		%			04/05/07 23:42	MCK	17060-07-0		

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Lab Project Number: 92141536
Client Project ID: Jackson Co. LF 2040.12

Lab Sample No: 928211945 Project Sample Number: 92141536-008 Date Collected: 04/03/07 13:47
Client Sample ID: SW-02 Matrix: Water Date Received: 04/03/07 15:34

Parameters	Results		Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
Metals										
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010									
Antimony	ND		ug/l	6.0	2.6	04/12/07 22:20	EWS	7440-36-0		
Arsenic	ND		ug/l	10.	2.7	04/12/07 22:20	EWS	7440-38-2		
Barium	25.	J	ug/l	100	0.19	04/12/07 22:20	EWS	7440-39-3		
Beryllium	ND		ug/l	1.0	0.20	04/12/07 22:20	EWS	7440-41-7		
Cadmium	ND		ug/l	1.0	0.50	04/12/07 22:20	EWS	7440-43-9		
Chromium	ND		ug/l	10.	0.44	04/12/07 22:20	EWS	7440-47-3		
Cobalt	ND		ug/l	10.	0.60	04/12/07 22:20	EWS	7440-48-4		
Copper	0.85	J	ug/l	10.	0.30	04/12/07 22:20	EWS	7440-50-8		
Lead	ND		ug/l	10.	4.0	04/12/07 22:20	EWS	7439-92-1		
Nickel	ND		ug/l	50.	1.7	04/12/07 22:20	EWS	7440-02-0		
Selenium	ND		ug/l	10.	4.3	04/12/07 22:20	EWS	7782-49-2		
Silver	ND		ug/l	10.	0.50	04/12/07 22:20	EWS	7440-22-4		
Thallium	ND		ug/l	5.5	3.3	04/12/07 22:20	EWS	7440-28-0		
Vanadium	2.8	J	ug/l	25.	0.50	04/12/07 22:20	EWS	7440-62-2		
Zinc	22.		ug/l	10.	1.6	04/12/07 22:20	EWS	7440-66-6		
Date Digested	04/10/07 09:00					04/10/07 09:00				
Mercury, CVAAS, in Water	Method: EPA 7470									
Mercury	ND		ug/l	0.20	0.030	04/04/07 14:34	ALV	7439-97-6		
GC/MS Volatiles										
GC/MS VOCs by 8260, low level	Method: EPA 8260									
Acetone	ND		ug/l	25.	1.8	04/07/07 12:43	MCK	67-64-1		
Acrylonitrile	ND		ug/l	5.0	1.6	04/07/07 12:43	MCK	107-13-1		
Benzene	ND		ug/l	1.0	0.31	04/07/07 12:43	MCK	71-43-2		
Bromochloromethane	ND		ug/l	1.0	0.37	04/07/07 12:43	MCK	74-97-5		
Bromodichloromethane	ND		ug/l	1.0	0.21	04/07/07 12:43	MCK	75-27-4		
Bromoform	ND		ug/l	1.0	0.17	04/07/07 12:43	MCK	75-25-2		
Bromomethane	ND		ug/l	1.0	0.51	04/07/07 12:43	MCK	74-83-9		
2-Butanone (MEK)	ND		ug/l	2.0	1.2	04/07/07 12:43	MCK	78-93-3		
Carbon disulfide	ND		ug/l	2.0	1.1	04/07/07 12:43	MCK	75-15-0		
Carbon tetrachloride	ND		ug/l	1.0	0.27	04/07/07 12:43	MCK	56-23-5		
Chlorobenzene	ND		ug/l	1.0	0.15	04/07/07 12:43	MCK	108-90-7		
Chloroethane	ND		ug/l	1.0	0.78	04/07/07 12:43	MCK	75-00-3		
Chloroform	ND		ug/l	1.0	0.29	04/07/07 12:43	MCK	67-66-3		
Chloromethane	ND		ug/l	1.0	0.78	04/07/07 12:43	MCK	74-87-3		
1,2-Dibromo-3-chloropropane	ND		ug/l	1.0	0.39	04/07/07 12:43	MCK	96-12-8		

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Lab Project Number: 92141536
Client Project ID: Jackson Co. LF 2040.12

Lab Sample No: 928211945 Project Sample Number: 92141536-008 Date Collected: 04/03/07 13:47
Client Sample ID: SW-02 Matrix: Water Date Received: 04/03/07 15:34

Parameters	Results	Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
Dibromochloromethane	ND	ug/l	1.0	0.17	04/07/07 12:43	MCK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	1.0	0.15	04/07/07 12:43	MCK	106-93-4		
Dibromomethane	ND	ug/l	1.0	0.27	04/07/07 12:43	MCK	74-95-3		
1,2-Dichlorobenzene	ND	ug/l	1.0	0.14	04/07/07 12:43	MCK	95-50-1		
1,4-Dichlorobenzene	ND	ug/l	1.0	0.17	04/07/07 12:43	MCK	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/l	1.0	0.28	04/07/07 12:43	MCK	110-57-6		
1,1-Dichloroethane	ND	ug/l	1.0	0.42	04/07/07 12:43	MCK	75-34-3		
1,2-Dichloroethane	ND	ug/l	1.0	0.18	04/07/07 12:43	MCK	107-06-2		
1,2-Dichloroethene (Total)	ND	ug/l	1.0		04/07/07 12:43	MCK	540-59-0		
1,1-Dichloroethene	ND	ug/l	1.0	0.39	04/07/07 12:43	MCK	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	1.0	0.33	04/07/07 12:43	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	0.44	04/07/07 12:43	MCK	156-60-5		
1,2-Dichloropropane	ND	ug/l	1.0	0.20	04/07/07 12:43	MCK	78-87-5		
cis-1,3-Dichloropropene	ND	ug/l	1.0	0.17	04/07/07 12:43	MCK	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/l	1.0	0.12	04/07/07 12:43	MCK	10061-02-6		
Ethylbenzene	ND	ug/l	1.0	0.17	04/07/07 12:43	MCK	100-41-4		
2-Hexanone	ND	ug/l	5.0	0.62	04/07/07 12:43	MCK	591-78-6		
Iodomethane	ND	ug/l	5.0	0.65	04/07/07 12:43	MCK	74-88-4		
Methylene chloride	ND	ug/l	2.0	0.46	04/07/07 12:43	MCK	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	5.0	0.66	04/07/07 12:43	MCK	108-10-1		
Styrene	ND	ug/l	1.0	0.15	04/07/07 12:43	MCK	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/l	1.0	0.25	04/07/07 12:43	MCK	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0	0.24	04/07/07 12:43	MCK	79-34-5		
Tetrachloroethene	ND	ug/l	1.0	0.16	04/07/07 12:43	MCK	127-18-4		
Toluene	ND	ug/l	1.0	0.24	04/07/07 12:43	MCK	108-88-3		
1,1,1-Trichloroethane	ND	ug/l	1.0	0.35	04/07/07 12:43	MCK	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	1.0	0.16	04/07/07 12:43	MCK	79-00-5		
Trichloroethene	ND	ug/l	1.0	0.26	04/07/07 12:43	MCK	79-01-6		
Trichlorofluoromethane	ND	ug/l	1.0	0.41	04/07/07 12:43	MCK	75-69-4		
1,2,3-Trichloropropane	ND	ug/l	1.0	0.22	04/07/07 12:43	MCK	96-18-4		
Vinyl acetate	ND	ug/l	1.0	0.80	04/07/07 12:43	MCK	108-05-4		
Vinyl chloride	ND	ug/l	1.0	0.58	04/07/07 12:43	MCK	75-01-4		
Xylene (Total)	ND	ug/l	2.0		04/07/07 12:43	MCK	1330-20-7		
m&p-Xylene	ND	ug/l	2.0	0.39	04/07/07 12:43	MCK			
o-Xylene	ND	ug/l	1.0	0.17	04/07/07 12:43	MCK	95-47-6		
Toluene-d8 (S)	99	%			04/07/07 12:43	MCK	2037-26-5		
4-Bromofluorobenzene (S)	97	%			04/07/07 12:43	MCK	460-00-4		
Dibromofluoromethane (S)	97	%			04/07/07 12:43	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	90	%			04/07/07 12:43	MCK	17060-07-0		

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Lab Project Number: 92141536
Client Project ID: Jackson Co. LF 2040.12

Lab Sample No: 928211952 Project Sample Number: 92141536-009 Date Collected: 04/03/07 00:00
Client Sample ID: TRIP BLANK Matrix: Water Date Received: 04/03/07 15:34

GC/MS Volatiles

GC/MS VOCs by 8260, low level Method: EPA 8260

Parameters	Results		Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
Acetone	ND		ug/l	25.	1.8	04/06/07 04:41	MCK	67-64-1		
Acrylonitrile	ND		ug/l	5.0	1.6	04/06/07 04:41	MCK	107-13-1		
Benzene	ND		ug/l	1.0	0.31	04/06/07 04:41	MCK	71-43-2		
Bromochloromethane	ND		ug/l	1.0	0.37	04/06/07 04:41	MCK	74-97-5		
Bromodichloromethane	ND		ug/l	1.0	0.21	04/06/07 04:41	MCK	75-27-4		
Bromoform	ND		ug/l	1.0	0.17	04/06/07 04:41	MCK	75-25-2		
Bromomethane	ND		ug/l	1.0	0.51	04/06/07 04:41	MCK	74-83-9		
2-Butanone (MEK)	ND		ug/l	2.0	1.2	04/06/07 04:41	MCK	78-93-3		
Carbon disulfide	ND		ug/l	2.0	1.1	04/06/07 04:41	MCK	75-15-0		
Carbon tetrachloride	ND		ug/l	1.0	0.27	04/06/07 04:41	MCK	56-23-5		
Chlorobenzene	ND		ug/l	1.0	0.15	04/06/07 04:41	MCK	108-90-7		
Chloroethane	ND		ug/l	1.0	0.78	04/06/07 04:41	MCK	75-00-3		
Chloroform	ND		ug/l	1.0	0.29	04/06/07 04:41	MCK	67-66-3		
Chloromethane	ND		ug/l	1.0	0.78	04/06/07 04:41	MCK	74-87-3		
1,2-Dibromo-3-chloropropane	ND		ug/l	1.0	0.39	04/06/07 04:41	MCK	96-12-8		
Dibromochloromethane	ND		ug/l	1.0	0.17	04/06/07 04:41	MCK	124-48-1		
1,2-Dibromoethane (EDB)	ND		ug/l	1.0	0.15	04/06/07 04:41	MCK	106-93-4		
Dibromomethane	ND		ug/l	1.0	0.27	04/06/07 04:41	MCK	74-95-3		
1,2-Dichlorobenzene	0.31	J	ug/l	1.0	0.14	04/06/07 04:41	MCK	95-50-1		
1,4-Dichlorobenzene	ND		ug/l	1.0	0.17	04/06/07 04:41	MCK	106-46-7		
trans-1,4-Dichloro-2-butene	ND		ug/l	1.0	0.28	04/06/07 04:41	MCK	110-57-6		
1,1-Dichloroethane	ND		ug/l	1.0	0.42	04/06/07 04:41	MCK	75-34-3		
1,2-Dichloroethane	ND		ug/l	1.0	0.18	04/06/07 04:41	MCK	107-06-2		
1,2-Dichloroethene (Total)	ND		ug/l	1.0		04/06/07 04:41	MCK	540-59-0		
1,1-Dichloroethene	ND		ug/l	1.0	0.39	04/06/07 04:41	MCK	75-35-4		
cis-1,2-Dichloroethene	ND		ug/l	1.0	0.33	04/06/07 04:41	MCK	156-59-2		
trans-1,2-Dichloroethene	ND		ug/l	1.0	0.44	04/06/07 04:41	MCK	156-60-5		
1,2-Dichloropropane	ND		ug/l	1.0	0.20	04/06/07 04:41	MCK	78-87-5		
cis-1,3-Dichloropropene	ND		ug/l	1.0	0.17	04/06/07 04:41	MCK	10061-01-5		
trans-1,3-Dichloropropene	ND		ug/l	1.0	0.12	04/06/07 04:41	MCK	10061-02-6		
Ethylbenzene	ND		ug/l	1.0	0.17	04/06/07 04:41	MCK	100-41-4		
2-Hexanone	ND		ug/l	5.0	0.62	04/06/07 04:41	MCK	591-78-6		
Iodomethane	ND		ug/l	5.0	0.65	04/06/07 04:41	MCK	74-88-4		
Methylene chloride	ND		ug/l	2.0	0.46	04/06/07 04:41	MCK	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND		ug/l	5.0	0.66	04/06/07 04:41	MCK	108-10-1		
Styrene	ND		ug/l	1.0	0.15	04/06/07 04:41	MCK	100-42-5		
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	0.25	04/06/07 04:41	MCK	630-20-6		

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Lab Project Number: 92141536
Client Project ID: Jackson Co. LF 2040.12

Lab Sample No: 928211952 Project Sample Number: 92141536-009 Date Collected: 04/03/07 00:00
Client Sample ID: TRIP BLANK Matrix: Water Date Received: 04/03/07 15:34

Parameters	Results	Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0	0.24	04/06/07 04:41	MCK	79-34-5		
Tetrachloroethene	ND	ug/l	1.0	0.16	04/06/07 04:41	MCK	127-18-4		
Toluene	ND	ug/l	1.0	0.24	04/06/07 04:41	MCK	108-88-3		
1,1,1-Trichloroethane	ND	ug/l	1.0	0.35	04/06/07 04:41	MCK	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	1.0	0.16	04/06/07 04:41	MCK	79-00-5		
Trichloroethene	ND	ug/l	1.0	0.26	04/06/07 04:41	MCK	79-01-6		
Trichlorofluoromethane	ND	ug/l	1.0	0.41	04/06/07 04:41	MCK	75-69-4		
1,2,3-Trichloropropane	ND	ug/l	1.0	0.22	04/06/07 04:41	MCK	96-18-4		
Vinyl acetate	ND	ug/l	1.0	0.80	04/06/07 04:41	MCK	108-05-4		
Vinyl chloride	ND	ug/l	1.0	0.58	04/06/07 04:41	MCK	75-01-4		
Xylene (Total)	ND	ug/l	2.0		04/06/07 04:41	MCK	1330-20-7		
m&p-Xylene	ND	ug/l	2.0	0.39	04/06/07 04:41	MCK			
o-Xylene	ND	ug/l	1.0	0.17	04/06/07 04:41	MCK	95-47-6		
Toluene-d8 (S)	101	%			04/06/07 04:41	MCK	2037-26-5		
4-Bromofluorobenzene (S)	100	%			04/06/07 04:41	MCK	460-00-4		
Dibromofluoromethane (S)	98	%			04/06/07 04:41	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	94	%			04/06/07 04:41	MCK	17060-07-0		

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Lab Project Number: 92141536
Client Project ID: Jackson Co. LF 2040.12

PARAMETER FOOTNOTES

Method 9071B modified to use ASE.

All pH, Free Chlorine, Total Chlorine and Ferrous Iron analyses conducted outside of EPA recommended immediate hold time.

Depending on the moisture content the PRLs can be elevated for all soil samples reported on a dry weight basis.

2-Chloroethyl vinyl ether has been shown to degrade in the presence of acid.

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
(S)	Surrogate

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QUALITY CONTROL DATA

Lab Project Number: 92141536
Client Project ID: Jackson Co. LF 2040.12

QC Batch: 185137 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: GC/MS VOCs by 8260, low level
Associated Lab Samples: 928211879 928211887 928211895 928211903 928211911 928211929 928211937

METHOD BLANK: 928222124
Associated Lab Samples: 928211879 928211887 928211895 928211903 928211911 928211929 928211937

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Acetone	ug/l	ND	25.	
Acrylonitrile	ug/l	ND	5.0	
Benzene	ug/l	ND	1.0	
Bromochloromethane	ug/l	ND	1.0	
Bromodichloromethane	ug/l	ND	1.0	
Bromoform	ug/l	ND	1.0	
Bromomethane	ug/l	ND	1.0	
2-Butanone (MEK)	ug/l	ND	2.0	
Carbon disulfide	ug/l	ND	2.0	
Carbon tetrachloride	ug/l	ND	1.0	
Chlorobenzene	ug/l	ND	1.0	
Chloroethane	ug/l	ND	1.0	
Chloroform	ug/l	ND	1.0	
Chloromethane	ug/l	ND	1.0	
1,2-Dibromo-3-chloropropane	ug/l	ND	1.0	
Dibromochloromethane	ug/l	ND	1.0	
1,2-Dibromoethane (EDB)	ug/l	ND	1.0	
Dibromomethane	ug/l	ND	1.0	
1,2-Dichlorobenzene	ug/l	0.35	1.0	
1,4-Dichlorobenzene	ug/l	ND	1.0	
trans-1,4-Dichloro-2-butene	ug/l	ND	1.0	
1,1-Dichloroethane	ug/l	ND	1.0	
1,2-Dichloroethane	ug/l	ND	1.0	
1,2-Dichloroethene (Total)	ug/l	ND	1.0	
1,1-Dichloroethene	ug/l	ND	1.0	
cis-1,2-Dichloroethene	ug/l	ND	1.0	
trans-1,2-Dichloroethene	ug/l	ND	1.0	
1,2-Dichloropropane	ug/l	ND	1.0	
cis-1,3-Dichloropropene	ug/l	ND	1.0	
trans-1,3-Dichloropropene	ug/l	ND	1.0	

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QUALITY CONTROL DATA

Lab Project Number: 92141536
Client Project ID: Jackson Co. LF 2040.12

METHOD BLANK: 928222124
Associated Lab Samples: 928211879 928211887 928211895 928211903 928211911 928211929 928211937

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Ethylbenzene	ug/l	ND	1.0	
2-Hexanone	ug/l	ND	5.0	
Iodomethane	ug/l	ND	5.0	
Methylene chloride	ug/l	ND	2.0	
4-Methyl-2-pentanone (MIBK)	ug/l	ND	5.0	
Styrene	ug/l	ND	1.0	
1,1,1,2-Tetrachloroethane	ug/l	ND	1.0	
1,1,2,2-Tetrachloroethane	ug/l	ND	1.0	
Tetrachloroethene	ug/l	ND	1.0	
Toluene	ug/l	ND	1.0	
1,1,1-Trichloroethane	ug/l	ND	1.0	
1,1,2-Trichloroethane	ug/l	ND	1.0	
Trichloroethene	ug/l	ND	1.0	
Trichlorofluoromethane	ug/l	ND	1.0	
1,2,3-Trichloropropane	ug/l	ND	1.0	
Vinyl acetate	ug/l	ND	1.0	
Vinyl chloride	ug/l	ND	1.0	
Xylene (Total)	ug/l	ND	2.0	
m&p-Xylene	ug/l	ND	2.0	
o-Xylene	ug/l	ND	1.0	
Toluene-d8 (S)	%	101		
4-Bromofluorobenzene (S)	%	98		
Dibromofluoromethane (S)	%	99		
1,2-Dichloroethane-d4 (S)	%	96		

LABORATORY CONTROL SAMPLE: 928222132

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Acetone	ug/l	100.00	86.21	86	50-150	
Acrylonitrile	ug/l	250.00	246.7	99	50-150	
Benzene	ug/l	50.00	51.69	103	66-123	
Bromochloromethane	ug/l	50.00	48.58	97	64-125	
Bromodichloromethane	ug/l	50.00	48.45	97	66-126	
Bromoform	ug/l	50.00	44.73	90	50-132	

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QUALITY CONTROL DATA

Lab Project Number: 92141536
Client Project ID: Jackson Co. LF 2040.12

LABORATORY CONTROL SAMPLE: 928222132

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Bromomethane	ug/l	50.00	61.96	124	50-150	
2-Butanone (MEK)	ug/l	100.00	87.42	87	51-135	
Carbon disulfide	ug/l	50.00	59.55	119	50-150	
Carbon tetrachloride	ug/l	50.00	56.38	113	65-134	
Chlorobenzene	ug/l	50.00	51.31	103	66-123	
Chloroethane	ug/l	50.00	55.12	110	52-146	
Chloroform	ug/l	50.00	47.32	95	64-128	
Chloromethane	ug/l	50.00	45.33	91	25-127	
1,2-Dibromo-3-chloropropane	ug/l	50.00	40.80	82	56-125	
Dibromochloromethane	ug/l	50.00	50.95	102	57-131	
1,2-Dibromoethane (EDB)	ug/l	50.00	48.50	97	64-123	
Dibromomethane	ug/l	50.00	48.21	96	64-122	
1,2-Dichlorobenzene	ug/l	50.00	46.10	92	63-123	
1,4-Dichlorobenzene	ug/l	50.00	49.58	99	62-123	
trans-1,4-Dichloro-2-butene	ug/l	50.00	46.93	94	50-143	
1,1-Dichloroethane	ug/l	50.00	54.64	109	64-132	
1,2-Dichloroethane	ug/l	50.00	47.86	96	62-123	
1,1-Dichloroethene	ug/l	50.00	48.19	96	62-139	
cis-1,2-Dichloroethene	ug/l	50.00	50.27	101	65-130	
trans-1,2-Dichloroethene	ug/l	50.00	48.66	97	67-134	
1,2-Dichloropropane	ug/l	50.00	53.80	108	66-124	
cis-1,3-Dichloropropene	ug/l	50.00	53.67	107	63-127	
trans-1,3-Dichloropropene	ug/l	50.00	52.53	105	61-126	
Ethylbenzene	ug/l	50.00	49.76	100	68-126	
2-Hexanone	ug/l	100.00	92.41	92	59-131	
Iodomethane	ug/l	100.00	127.1	127	50-150	
Methylene chloride	ug/l	50.00	54.21	108	54-132	
4-Methyl-2-pentanone (MIBK)	ug/l	100.00	90.01	90	58-130	
Styrene	ug/l	50.00	51.94	104	65-127	
1,1,1,2-Tetrachloroethane	ug/l	50.00	52.93	106	65-125	
1,1,2,2-Tetrachloroethane	ug/l	50.00	48.40	97	58-124	
Tetrachloroethene	ug/l	50.00	51.66	103	50-150	
Toluene	ug/l	50.00	49.71	99	66-125	
1,1,1-Trichloroethane	ug/l	50.00	55.42	111	65-133	
1,1,2-Trichloroethane	ug/l	50.00	48.63	97	64-122	
Trichloroethene	ug/l	50.00	53.63	107	63-134	
Trichlorofluoromethane	ug/l	50.00	56.66	113	54-135	

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QUALITY CONTROL DATA

Lab Project Number: 92141536
Client Project ID: Jackson Co. LF 2040.12

LABORATORY CONTROL SAMPLE: 928222132

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
1,2,3-Trichloropropane	ug/l	50.00	47.49	95	63-124	
Vinyl acetate	ug/l	100.00	91.23	91	50-150	
Vinyl chloride	ug/l	50.00	52.19	104	50-130	
m&p-Xylene	ug/l	100.00	102.0	102	66-126	
o-Xylene	ug/l	50.00	50.95	102	65-126	
Toluene-d8 (S)				98	70-120	
4-Bromofluorobenzene (S)				100	76-112	
Dibromofluoromethane (S)				99	86-119	
1,2-Dichloroethane-d4 (S)				95	79-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 928226117 928226125

Parameter	Units	928211937 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Footnotes
Benzene	ug/l	0	50.00	45.70	50.34	91	101	53-134	10		
Chlorobenzene	ug/l	0	50.00	44.43	49.37	89	99	53-133	11		
1,1-Dichloroethene	ug/l	0	50.00	42.89	48.37	86	97	50-146	12		
Toluene	ug/l	0	50.00	42.99	48.19	86	96	51-133	11		
Trichloroethene	ug/l	0	50.00	46.77	51.34	94	103	55-138	9		
Toluene-d8 (S)						98	99	70-120			
4-Bromofluorobenzene (S)						98	96	76-112			
Dibromofluoromethane (S)						100	102	86-119			
1,2-Dichloroethane-d4 (S)						105	111	79-130			

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QUALITY CONTROL DATA

Lab Project Number: 92141536
Client Project ID: Jackson Co. LF 2040.12

QC Batch: 185138 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: GC/MS VOCs by 8260, low level
Associated Lab Samples: 928211952

METHOD BLANK: 928222140
Associated Lab Samples: 928211952

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Acetone	ug/l	ND	25.	
Acrylonitrile	ug/l	ND	5.0	
Benzene	ug/l	ND	1.0	
Bromochloromethane	ug/l	ND	1.0	
Bromodichloromethane	ug/l	ND	1.0	
Bromoform	ug/l	ND	1.0	
Bromomethane	ug/l	ND	1.0	
2-Butanone (MEK)	ug/l	ND	2.0	
Carbon disulfide	ug/l	ND	2.0	
Carbon tetrachloride	ug/l	ND	1.0	
Chlorobenzene	ug/l	ND	1.0	
Chloroethane	ug/l	ND	1.0	
Chloroform	ug/l	ND	1.0	
Chloromethane	ug/l	ND	1.0	
1,2-Dibromo-3-chloropropane	ug/l	ND	1.0	
Dibromochloromethane	ug/l	ND	1.0	
1,2-Dibromoethane (EDB)	ug/l	ND	1.0	
Dibromomethane	ug/l	ND	1.0	
1,2-Dichlorobenzene	ug/l	0.34	1.0	
1,4-Dichlorobenzene	ug/l	ND	1.0	
trans-1,4-Dichloro-2-butene	ug/l	ND	1.0	
1,1-Dichloroethane	ug/l	ND	1.0	
1,2-Dichloroethane	ug/l	ND	1.0	
1,2-Dichloroethene (Total)	ug/l	ND	1.0	
1,1-Dichloroethene	ug/l	ND	1.0	
cis-1,2-Dichloroethene	ug/l	ND	1.0	
trans-1,2-Dichloroethene	ug/l	ND	1.0	
1,2-Dichloropropane	ug/l	ND	1.0	
cis-1,3-Dichloropropene	ug/l	ND	1.0	
trans-1,3-Dichloropropene	ug/l	ND	1.0	
Ethylbenzene	ug/l	ND	1.0	

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QUALITY CONTROL DATA

Lab Project Number: 92141536
Client Project ID: Jackson Co. LF 2040.12

METHOD BLANK: 928222140
Associated Lab Samples: 928211952

Parameter	Units	Blank Result	Reporting Limit	Footnotes
2-Hexanone	ug/l	ND	5.0	
Iodomethane	ug/l	ND	5.0	
Methylene chloride	ug/l	ND	2.0	
4-Methyl-2-pentanone (MIBK)	ug/l	ND	5.0	
Styrene	ug/l	ND	1.0	
1,1,1,2-Tetrachloroethane	ug/l	ND	1.0	
1,1,2,2-Tetrachloroethane	ug/l	ND	1.0	
Tetrachloroethene	ug/l	ND	1.0	
Toluene	ug/l	ND	1.0	
1,1,1-Trichloroethane	ug/l	ND	1.0	
1,1,2-Trichloroethane	ug/l	ND	1.0	
Trichloroethene	ug/l	ND	1.0	
Trichlorofluoromethane	ug/l	ND	1.0	
1,2,3-Trichloropropane	ug/l	ND	1.0	
Vinyl acetate	ug/l	ND	1.0	
Vinyl chloride	ug/l	ND	1.0	
Xylene (Total)	ug/l	ND	2.0	
m&p-Xylene	ug/l	ND	2.0	
o-Xylene	ug/l	ND	1.0	
Toluene-d8 (S)	%	100		
4-Bromofluorobenzene (S)	%	97		
Dibromofluoromethane (S)	%	99		
1,2-Dichloroethane-d4 (S)	%	96		

LABORATORY CONTROL SAMPLE: 928222157

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Acetone	ug/l	100.00	86.71	87	50-150	
Acrylonitrile	ug/l	250.00	244.1	98	50-150	
Benzene	ug/l	50.00	51.15	102	66-123	
Bromochloromethane	ug/l	50.00	49.79	100	64-125	
Bromodichloromethane	ug/l	50.00	48.03	96	66-126	
Bromoform	ug/l	50.00	41.23	82	50-132	
Bromomethane	ug/l	50.00	60.00	120	50-150	

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QUALITY CONTROL DATA

Lab Project Number: 92141536
Client Project ID: Jackson Co. LF 2040.12

LABORATORY CONTROL SAMPLE: 928222157

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
2-Butanone (MEK)	ug/l	100.00	91.58	92	51-135	
Carbon disulfide	ug/l	50.00	57.93	116	50-150	
Carbon tetrachloride	ug/l	50.00	54.29	109	65-134	
Chlorobenzene	ug/l	50.00	50.45	101	66-123	
Chloroethane	ug/l	50.00	48.86	98	52-146	
Chloroform	ug/l	50.00	45.96	92	64-128	
Chloromethane	ug/l	50.00	44.51	89	25-127	
1,2-Dibromo-3-chloropropane	ug/l	50.00	42.66	85	56-125	
Dibromochloromethane	ug/l	50.00	46.45	93	57-131	
1,2-Dibromoethane (EDB)	ug/l	50.00	48.12	96	64-123	
Dibromomethane	ug/l	50.00	50.07	100	64-122	
1,2-Dichlorobenzene	ug/l	50.00	46.71	93	63-123	
1,4-Dichlorobenzene	ug/l	50.00	49.12	98	62-123	
trans-1,4-Dichloro-2-butene	ug/l	50.00	45.54	91	50-143	
1,1-Dichloroethane	ug/l	50.00	52.85	106	64-132	
1,2-Dichloroethane	ug/l	50.00	46.90	94	62-123	
1,1-Dichloroethene	ug/l	50.00	47.25	94	62-139	
cis-1,2-Dichloroethene	ug/l	50.00	49.42	99	65-130	
trans-1,2-Dichloroethene	ug/l	50.00	47.56	95	67-134	
1,2-Dichloropropane	ug/l	50.00	53.00	106	66-124	
cis-1,3-Dichloropropene	ug/l	50.00	51.74	103	63-127	
trans-1,3-Dichloropropene	ug/l	50.00	50.99	102	61-126	
Ethylbenzene	ug/l	50.00	48.03	96	68-126	
2-Hexanone	ug/l	100.00	95.61	96	59-131	
Iodomethane	ug/l	100.00	123.8	124	50-150	
Methylene chloride	ug/l	50.00	52.63	105	54-132	
4-Methyl-2-pentanone (MIBK)	ug/l	100.00	94.50	94	58-130	
Styrene	ug/l	50.00	50.69	101	65-127	
1,1,1,2-Tetrachloroethane	ug/l	50.00	48.65	97	65-125	
1,1,2,2-Tetrachloroethane	ug/l	50.00	48.24	96	58-124	
Tetrachloroethene	ug/l	50.00	50.80	102	50-150	
Toluene	ug/l	50.00	48.99	98	66-125	
1,1,1-Trichloroethane	ug/l	50.00	51.38	103	65-133	
1,1,2-Trichloroethane	ug/l	50.00	48.50	97	64-122	
Trichloroethene	ug/l	50.00	54.09	108	63-134	
Trichlorofluoromethane	ug/l	50.00	49.52	99	54-135	
1,2,3-Trichloropropane	ug/l	50.00	47.53	95	63-124	

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QUALITY CONTROL DATA

Lab Project Number: 92141536
Client Project ID: Jackson Co. LF 2040.12

LABORATORY CONTROL SAMPLE: 928222157

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Vinyl acetate	ug/l	100.00	69.20	69	50-150	
Vinyl chloride	ug/l	50.00	50.73	101	50-130	
m&p-Xylene	ug/l	100.00	99.16	99	66-126	
o-Xylene	ug/l	50.00	49.47	99	65-126	
Toluene-d8 (S)				100	70-120	
4-Bromofluorobenzene (S)				98	76-112	
Dibromofluoromethane (S)				100	86-119	
1,2-Dichloroethane-d4 (S)				94	79-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 928226208 928226216

Parameter	Units	928218338 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Footnotes
Benzene	ug/l	0	50.00	48.00	56.63	96	113	53-134	17		
Chlorobenzene	ug/l	0	50.00	46.74	55.09	94	110	53-133	16		
1,1-Dichloroethene	ug/l	0	50.00	44.67	52.60	89	105	50-146	16		
Toluene	ug/l	0	50.00	41.01	51.40	82	103	51-133	22		
Trichloroethene	ug/l	0	50.00	49.01	58.29	98	117	55-138	17		
Toluene-d8 (S)						92	98	70-120			
4-Bromofluorobenzene (S)						92	96	76-112			
Dibromofluoromethane (S)						97	101	86-119			
1,2-Dichloroethane-d4 (S)						105	108	79-130			

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QUALITY CONTROL DATA

Lab Project Number: 92141536
Client Project ID: Jackson Co. LF 2040.12

QC Batch: 185212 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: GC/MS VOCs by 8260, low level
Associated Lab Samples: 928211945

METHOD BLANK: 928226265
Associated Lab Samples: 928211945

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Acetone	ug/l	ND	25.	
Acrylonitrile	ug/l	ND	5.0	
Benzene	ug/l	ND	1.0	
Bromochloromethane	ug/l	ND	1.0	
Bromodichloromethane	ug/l	ND	1.0	
Bromoform	ug/l	ND	1.0	
Bromomethane	ug/l	ND	1.0	
2-Butanone (MEK)	ug/l	ND	2.0	
Carbon disulfide	ug/l	ND	2.0	
Carbon tetrachloride	ug/l	ND	1.0	
Chlorobenzene	ug/l	ND	1.0	
Chloroethane	ug/l	ND	1.0	
Chloroform	ug/l	ND	1.0	
Chloromethane	ug/l	ND	1.0	
1,2-Dibromo-3-chloropropane	ug/l	ND	1.0	
Dibromochloromethane	ug/l	ND	1.0	
1,2-Dibromoethane (EDB)	ug/l	ND	1.0	
Dibromomethane	ug/l	ND	1.0	
1,2-Dichlorobenzene	ug/l	ND	1.0	
1,4-Dichlorobenzene	ug/l	ND	1.0	
trans-1,4-Dichloro-2-butene	ug/l	ND	1.0	
1,1-Dichloroethane	ug/l	ND	1.0	
1,2-Dichloroethane	ug/l	ND	1.0	
1,2-Dichloroethene (Total)	ug/l	ND	1.0	
1,1-Dichloroethene	ug/l	ND	1.0	
cis-1,2-Dichloroethene	ug/l	ND	1.0	
trans-1,2-Dichloroethene	ug/l	ND	1.0	
1,2-Dichloropropane	ug/l	ND	1.0	
cis-1,3-Dichloropropene	ug/l	ND	1.0	
trans-1,3-Dichloropropene	ug/l	ND	1.0	
Ethylbenzene	ug/l	ND	1.0	

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QUALITY CONTROL DATA

Lab Project Number: 92141536
Client Project ID: Jackson Co. LF 2040.12

METHOD BLANK: 928226265
Associated Lab Samples: 928211945

Parameter	Units	Blank Result	Reporting Limit	Footnotes
2-Hexanone	ug/l	ND	5.0	
Iodomethane	ug/l	ND	5.0	
Methylene chloride	ug/l	1.9	2.0	
4-Methyl-2-pentanone (MIBK)	ug/l	ND	5.0	
Styrene	ug/l	ND	1.0	
1,1,1,2-Tetrachloroethane	ug/l	ND	1.0	
1,1,2,2-Tetrachloroethane	ug/l	ND	1.0	
Tetrachloroethene	ug/l	ND	1.0	
Toluene	ug/l	ND	1.0	
1,1,1-Trichloroethane	ug/l	ND	1.0	
1,1,2-Trichloroethane	ug/l	ND	1.0	
Trichloroethene	ug/l	ND	1.0	
Trichlorofluoromethane	ug/l	ND	1.0	
1,2,3-Trichloropropane	ug/l	ND	1.0	
Vinyl acetate	ug/l	ND	1.0	
Vinyl chloride	ug/l	ND	1.0	
Xylene (Total)	ug/l	ND	2.0	
m&p-Xylene	ug/l	ND	2.0	
o-Xylene	ug/l	ND	1.0	
Toluene-d8 (S)	%	100		
4-Bromofluorobenzene (S)	%	97		
Dibromofluoromethane (S)	%	97		
1,2-Dichloroethane-d4 (S)	%	89		

LABORATORY CONTROL SAMPLE: 928226273

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Acetone	ug/l	100.00	93.37	93	50-150	
Acrylonitrile	ug/l	250.00	261.4	105	50-150	
Benzene	ug/l	50.00	54.56	109	66-123	
Bromochloromethane	ug/l	50.00	50.46	101	64-125	
Bromodichloromethane	ug/l	50.00	47.01	94	66-126	
Bromoform	ug/l	50.00	45.91	92	50-132	
Bromomethane	ug/l	50.00	69.99	140	50-150	

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QUALITY CONTROL DATA

Lab Project Number: 92141536
Client Project ID: Jackson Co. LF 2040.12

LABORATORY CONTROL SAMPLE: 928226273

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
2-Butanone (MEK)	ug/l	100.00	98.37	98	51-135	
Carbon disulfide	ug/l	50.00	60.29	121	50-150	
Carbon tetrachloride	ug/l	50.00	54.69	109	65-134	
Chlorobenzene	ug/l	50.00	53.07	106	66-123	
Chloroethane	ug/l	50.00	59.40	119	52-146	
Chloroform	ug/l	50.00	48.46	97	64-128	
Chloromethane	ug/l	50.00	45.58	91	25-127	
1,2-Dibromo-3-chloropropane	ug/l	50.00	42.01	84	56-125	
Dibromochloromethane	ug/l	50.00	46.73	94	57-131	
1,2-Dibromoethane (EDB)	ug/l	50.00	49.67	99	64-123	
Dibromomethane	ug/l	50.00	53.00	106	64-122	
1,2-Dichlorobenzene	ug/l	50.00	51.07	102	63-123	
1,4-Dichlorobenzene	ug/l	50.00	50.54	101	62-123	
trans-1,4-Dichloro-2-butene	ug/l	50.00	47.29	95	50-143	
1,1-Dichloroethane	ug/l	50.00	55.78	112	64-132	
1,2-Dichloroethane	ug/l	50.00	46.08	92	62-123	
1,1-Dichloroethene	ug/l	50.00	48.21	96	62-139	
cis-1,2-Dichloroethene	ug/l	50.00	51.04	102	65-130	
trans-1,2-Dichloroethene	ug/l	50.00	49.56	99	67-134	
1,2-Dichloropropane	ug/l	50.00	54.76	110	66-124	
cis-1,3-Dichloropropene	ug/l	50.00	53.93	108	63-127	
trans-1,3-Dichloropropene	ug/l	50.00	51.13	102	61-126	
Ethylbenzene	ug/l	50.00	50.28	101	68-126	
2-Hexanone	ug/l	100.00	97.11	97	59-131	
Iodomethane	ug/l	100.00	117.1	117	50-150	
Methylene chloride	ug/l	50.00	50.63	101	54-132	
4-Methyl-2-pentanone (MIBK)	ug/l	100.00	94.16	94	58-130	
Styrene	ug/l	50.00	53.26	107	65-127	
1,1,1,2-Tetrachloroethane	ug/l	50.00	48.32	97	65-125	
1,1,2,2-Tetrachloroethane	ug/l	50.00	48.64	97	58-124	
Tetrachloroethene	ug/l	50.00	52.55	105	50-150	
Toluene	ug/l	50.00	52.04	104	66-125	
1,1,1-Trichloroethane	ug/l	50.00	49.81	100	65-133	
1,1,2-Trichloroethane	ug/l	50.00	50.82	102	64-122	
Trichloroethene	ug/l	50.00	55.42	111	63-134	
Trichlorofluoromethane	ug/l	50.00	52.64	105	54-135	
1,2,3-Trichloropropane	ug/l	50.00	48.06	96	63-124	

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QUALITY CONTROL DATA

Lab Project Number: 92141536
Client Project ID: Jackson Co. LF 2040.12

LABORATORY CONTROL SAMPLE: 928226273

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Vinyl acetate	ug/l	100.00	107.9	108	50-150	
Vinyl chloride	ug/l	50.00	51.65	103	50-130	
m&p-Xylene	ug/l	100.00	102.8	103	66-126	
o-Xylene	ug/l	50.00	51.50	103	65-126	
Toluene-d8 (S)				99	70-120	
4-Bromofluorobenzene (S)				99	76-112	
Dibromofluoromethane (S)				98	86-119	
1,2-Dichloroethane-d4 (S)				90	79-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 928232644 928232651

Parameter	Units	928225028 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Footnotes
Benzene	ug/l	0	50.00	52.88	65.79	106	132	53-134	22		
Chlorobenzene	ug/l	0	50.00	51.47	65.35	103	131	53-133	24		
1,1-Dichloroethene	ug/l	0	50.00	46.34	55.42	93	111	50-146	18		
Toluene	ug/l	0	50.00	49.65	61.69	99	123	51-133	22		
Trichloroethene	ug/l	0	50.00	55.08	66.30	110	133	55-138	18		
Toluene-d8 (S)						100	100	70-120			
4-Bromofluorobenzene (S)						98	99	76-112			
Dibromofluoromethane (S)						102	100	86-119			
1,2-Dichloroethane-d4 (S)						96	96	79-130			

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SC 99006
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Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

QUALITY CONTROL DATA

Lab Project Number: 92141536
Client Project ID: Jackson Co. LF 2040.12

QC Batch: 184970 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: Mercury, CVAAS, in Water
Associated Lab Samples: 928211879 928211887 928211895 928211903 928211911 928211929 928211937 928211945

METHOD BLANK: 928213263
Associated Lab Samples: 928211879 928211887 928211895 928211903 928211911 928211929 928211937 928211945

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Mercury	ug/l	ND	0.20	

LABORATORY CONTROL SAMPLE: 928213271

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Mercury	ug/l	2.500	2.500	100	80-120	

MATRIX SPIKE: 928213289

Parameter	Units	928212406 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Footnotes
Mercury	ug/l	0	2.500	1.650	66	75-125	1

SAMPLE DUPLICATE: 928213297

Parameter	Units	928212414 Result	DUP Result	RPD	Max RPD	Footnotes
Mercury	ug/l	0.2700	0.3100	14	25	

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Fax: 704.875.9091

QUALITY CONTROL DATA

Lab Project Number: 92141536
Client Project ID: Jackson Co. LF 2040.12

QC Batch: 185471 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: Metals by Trace ICP
Associated Lab Samples: 928211879

METHOD BLANK: 928235365
Associated Lab Samples: 928211879

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Antimony	ug/l	ND	5.0	
Arsenic	ug/l	ND	5.0	
Barium	ug/l	ND	5.0	
Beryllium	ug/l	ND	1.0	
Cadmium	ug/l	ND	1.0	
Chromium	ug/l	0.44	5.0	
Cobalt	ug/l	ND	5.0	
Copper	ug/l	ND	2.0	
Lead	ug/l	ND	5.0	
Nickel	ug/l	3.3	5.0	
Selenium	ug/l	ND	10.	
Silver	ug/l	ND	5.0	
Thallium	ug/l	ND	10.	
Vanadium	ug/l	ND	5.0	
Zinc	ug/l	8.2	10.	

LABORATORY CONTROL SAMPLE: 928235373

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Antimony	ug/l	500.00	508.0	102	80-120	
Arsenic	ug/l	500.00	504.0	101	80-120	
Barium	ug/l	500.00	480.0	96	80-120	
Beryllium	ug/l	500.00	555.0	111	80-120	
Cadmium	ug/l	500.00	517.0	103	80-120	
Chromium	ug/l	500.00	507.0	101	80-120	
Cobalt	ug/l	500.00	504.0	101	80-120	
Copper	ug/l	500.00	486.0	97	80-120	
Lead	ug/l	500.00	512.0	102	80-120	
Nickel	ug/l	500.00	517.0	103	80-120	

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QUALITY CONTROL DATA

Lab Project Number: 92141536
Client Project ID: Jackson Co. LF 2040.12

LABORATORY CONTROL SAMPLE: 928235373

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Selenium	ug/l	500.00	494.0	99	80-120	
Silver	ug/l	250.00	241.0	96	80-120	
Thallium	ug/l	500.00	493.0	99	80-120	
Vanadium	ug/l	500.00	500.0	100	80-120	
Zinc	ug/l	500.00	498.0	100	80-120	

MATRIX SPIKE: 928235381

Parameter	Units	928228410 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Footnotes
Antimony	ug/l	0	500.00	508.0	102	80-120	
Arsenic	ug/l	6.570	500.00	518.0	102	80-120	
Barium	ug/l	16.50	500.00	488.0	94	80-120	
Beryllium	ug/l	0	500.00	555.0	111	80-120	
Cadmium	ug/l	0	500.00	511.0	102	80-120	
Chromium	ug/l	0	500.00	502.0	100	80-120	
Cobalt	ug/l	0	500.00	466.0	93	80-120	
Copper	ug/l	4.580	500.00	491.0	97	80-120	
Lead	ug/l	0	500.00	498.0	100	80-120	
Nickel	ug/l	0.2000	500.00	508.0	102	80-120	
Selenium	ug/l	6.870	500.00	506.0	100	80-120	
Silver	ug/l	0.00700	250.00	239.0	96	80-120	
Thallium	ug/l	1.690	500.00	484.0	96	80-120	
Vanadium	ug/l	3.820	500.00	503.0	100	80-120	
Zinc	ug/l	15.90	500.00	504.0	98	80-120	

SAMPLE DUPLICATE: 928235399

Parameter	Units	928228428 Result	DUP Result	RPD	Max RPD	Footnotes
Antimony	ug/l	ND	ND	NC	20	
Arsenic	ug/l	ND	ND	NC	20	
Barium	ug/l	200.0	210.0	2	20	
Beryllium	ug/l	ND	ND	NC	20	
Cadmium	ug/l	ND	ND	NC	20	

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Fax: 704.875.9091

QUALITY CONTROL DATA

Lab Project Number: 92141536
Client Project ID: Jackson Co. LF 2040.12

SAMPLE DUPLICATE: 928235399

Parameter	Units	928228428 Result	DUP Result	RPD	Max RPD	Footnotes
Chromium	ug/l	250.0	260.0	3	20	
Cobalt	ug/l	3.000	2.900	0	20	
Copper	ug/l	1.800	1.900	0	20	
Lead	ug/l	5.400	5.500	3	20	
Nickel	ug/l	2.000	ND	NC	20	
Selenium	ug/l	13.00	15.00	14	20	
Silver	ug/l	1.900	1.900	0	20	
Thallium	ug/l	ND	ND	NC	20	
Vanadium	ug/l	7.100	7.700	8	20	
Zinc	ug/l	26.00	28.00	6	20	

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QUALITY CONTROL DATA

Lab Project Number: 92141536
Client Project ID: Jackson Co. LF 2040.12

QC Batch: 185474 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: Metals by Trace ICP
Associated Lab Samples: 928211887 928211895 928211903 928211911 928211929 928211937 928211945

METHOD BLANK: 928235480
Associated Lab Samples: 928211887 928211895 928211903 928211911 928211929 928211937 928211945

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Antimony	ug/l	ND	5.0	
Arsenic	ug/l	ND	5.0	
Barium	ug/l	ND	5.0	
Beryllium	ug/l	ND	1.0	
Cadmium	ug/l	ND	1.0	
Chromium	ug/l	ND	5.0	
Cobalt	ug/l	ND	5.0	
Copper	ug/l	ND	2.0	
Lead	ug/l	ND	5.0	
Nickel	ug/l	ND	5.0	
Selenium	ug/l	ND	10.	
Silver	ug/l	ND	5.0	
Thallium	ug/l	ND	10.	
Vanadium	ug/l	ND	5.0	
Zinc	ug/l	6.1	10.	

LABORATORY CONTROL SAMPLE: 928235498

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Antimony	ug/l	500.00	519.0	104	80-120	
Arsenic	ug/l	500.00	529.0	106	80-120	
Barium	ug/l	500.00	483.0	97	80-120	
Beryllium	ug/l	500.00	534.0	107	80-120	
Cadmium	ug/l	500.00	532.0	106	80-120	
Chromium	ug/l	500.00	529.0	106	80-120	
Cobalt	ug/l	500.00	508.0	102	80-120	
Copper	ug/l	500.00	489.0	98	80-120	
Lead	ug/l	500.00	530.0	106	80-120	

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QUALITY CONTROL DATA

Lab Project Number: 92141536
Client Project ID: Jackson Co. LF 2040.12

LABORATORY CONTROL SAMPLE: 928235498

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Nickel	ug/l	500.00	526.0	105	80-120	
Selenium	ug/l	500.00	516.0	103	80-120	
Silver	ug/l	250.00	256.0	102	80-120	
Thallium	ug/l	500.00	516.0	103	80-120	
Vanadium	ug/l	500.00	512.0	102	80-120	
Zinc	ug/l	500.00	510.0	102	80-120	

MATRIX SPIKE: 928235506

Parameter	Units	928211887 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Footnotes
Antimony	ug/l	0.3850	500.00	512.0	102	80-120	
Arsenic	ug/l	0.09100	500.00	526.0	105	80-120	
Barium	ug/l	53.50	500.00	518.0	93	80-120	
Beryllium	ug/l	0	500.00	532.0	106	80-120	
Cadmium	ug/l	0	500.00	522.0	104	80-120	
Chromium	ug/l	0	500.00	522.0	104	80-120	
Cobalt	ug/l	6.050	500.00	496.0	98	80-120	
Copper	ug/l	0	500.00	474.0	95	80-120	
Lead	ug/l	0	500.00	514.0	103	80-120	
Nickel	ug/l	1.880	500.00	510.0	102	80-120	
Selenium	ug/l	1.420	500.00	512.0	102	80-120	
Silver	ug/l	0.08700	250.00	252.0	101	80-120	
Thallium	ug/l	0.6950	500.00	499.0	100	80-120	
Vanadium	ug/l	0.07900	500.00	505.0	101	80-120	
Zinc	ug/l	23.20	500.00	522.0	100	80-120	

SAMPLE DUPLICATE: 928235514

Parameter	Units	928211895 Result	DUP Result	RPD	Max RPD	Footnotes
Antimony	mg/l	ND	ND	NC	20	
Arsenic	mg/l	ND	ND	NC	20	
Barium	mg/l	140.0	ND	NC	20	
Beryllium	mg/l	ND	ND	NC	20	

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Fax: 704.875.9091

QUALITY CONTROL DATA

Lab Project Number: 92141536
Client Project ID: Jackson Co. LF 2040.12

SAMPLE DUPLICATE: 928235514

Parameter	Units	928211895 Result	DUP Result	RPD	Max RPD	Footnotes
Cadmium	mg/l	ND	ND	NC	20	
Chromium	mg/l	ND	ND	NC	20	
Cobalt	mg/l	61.00	ND	NC	20	
Copper	mg/l	ND	ND	NC	20	
Lead	mg/l	ND	ND	NC	20	
Nickel	mg/l	4.100	ND	NC	20	
Selenium	mg/l	6.100	ND	NC	20	
Silver	mg/l	ND	ND	NC	20	
Thallium	mg/l	ND	ND	NC	20	
Vanadium	mg/l	ND	ND	NC	20	
Zinc	mg/l	21.00	ND	NC	20	

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Lab Project Number: 92141536
Client Project ID: Jackson Co. LF 2040.12

QUALITY CONTROL DATA PARAMETER FOOTNOTES

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

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference
(S)	Surrogate
[1]	The spike recovery was outside acceptance limits for the MS and /or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

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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

1030695

Section A
Required Client Information:

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

Section B
Required Project Information:

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

Section C
Invoice Information:

Attention: J. Robertson
Company Name: Altamont
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ Other_____

SITE LOCATION: ☐GA ☐IL ☐IN ☐MI ☐MN ☑NC ☐OH ☐SC ☐WI ☐OTHER _____

Section D
Required Client Information

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

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / .-) Samples IDs MUST BE UNIQUE)	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	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	Filtered (Y/N)	Requested Analysis: Appendix I Metals App I VOC 8260 Ionized	Residual Chlorine (Y/N)	Pace Project Number / Lab I.D
1	MW-01	WT	G			4/3/07	11:08	16.1	4			1	3					N	13		92821879
2	MW-02	WT	G			4/3/07	13:33	16.0	4			1	3					N	13		92821887
3	MW-03	WT	G			4/3/07	14:24	17.4	4			1	3					N	13		92821895
4	MW-04	WT	G			4/3/07	11:49	16.3	4			1	3					N	13		92821903
5	MW-05	WT	G			4/3/07	9:34	15.5	4			1	3					N	13		92821911
6	MW-06	WT	G			4/3/07	10:20	15.7	4			1	3					N	13		92821920
7	SW-01	WT	G			4/3/07	12:05	14.9	4			1	3					N	13		92821937
8	SW-02	WT	G			4/3/07	13:47	16.5	4			1	3					N	13		92821945
9	Trip Blk																				92821952
10																					
11																					
12																					

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITION
Anna Priest	4/3/07	15:34	[signature]	4/3/07	15:34	4.1

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Anna Priest

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM / DD / YY): 04/03/07

SEE REVERSE SIDE FOR INSTRUCTIONS

ORIGINAL

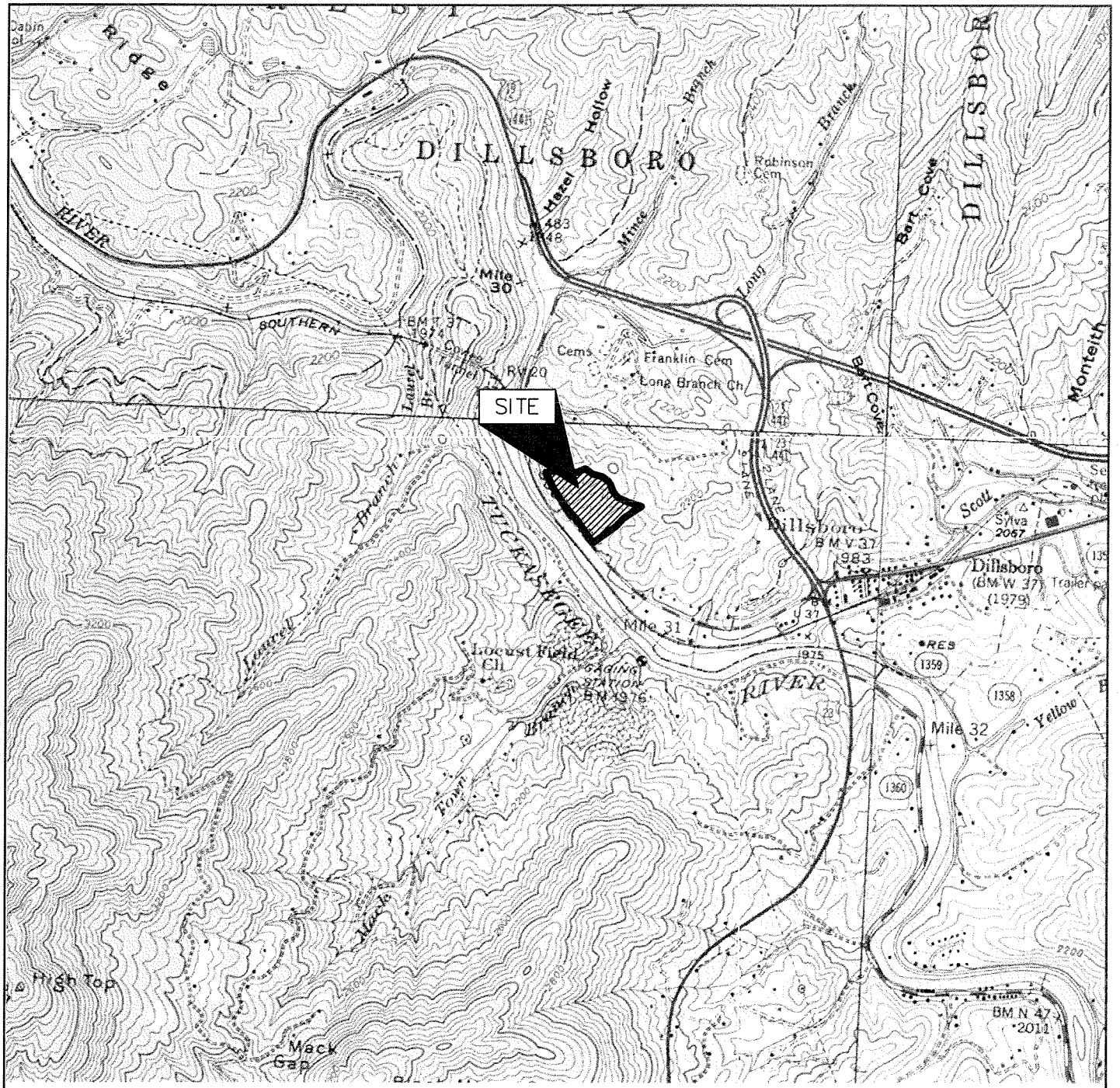
ALLQ020rev.3,31Mar05

Appendix C
Summary of *t*-Test Results
Jackson County MSWLF
Jackson County, North Carolina
April 3, 2007

Analyte	Groundwater Standard	Significantly Greater than the Groundwater Standard
Metals		
Barium	2000.0	none
Cobalt	NL	NA
Copper	1000.0	none
Selenium	50.0	none
Zinc	1050.00	none
VOCs		
1,1-Dichloroethane	70	none
1,2-Dichloroethene (Total)	NL	NA
1,4-Dichlorobenzene	1.4	**MW-1, MW-2, MW-3, MW-4, MW-5, MW-6[5]**
Benzene	1.0	**MW-1, MW-2, MW-3, MW-4, MW-5, MW-6[6]**
Chlorobenzene	50	none
cis-1,2-Dichloroethene	70	none
Chloroethane	2800	none
Tetrachloroethene	0.7	**MW-1, MW-2, MW-3, MW-4, MW-5, MW-6[7]**
Trichloroethene	2.8	none
o-xylene	NL	NA
Xylene (Total)	530	none

Notes:

1. All concentrations are in micrograms per liter (ug/L).
2. "Groundwater Standard" means the NC 2L Standard or EPA's Safe Drinking Water maximum contamination level (MCL).
3. "NL" means there is no Groundwater Standard (as defined in note 2).
4. "NA" means not applicable, since no NC 2 L Standard or MCL Standard is listed, a comparison with sample means is not possible.
5. *t*-test for 1,4-Dichlorobenzene is not valid for MW-2 since the sample sets contain non-detect values.
6. *t*-test for benzene is not valid for MW-2, MW-3, and MW-4 since the sample sets contain mostly non-detect values.the detection limit is greater than the groundwater standard.
7. *t*- test for tetrachloroethene is not valid for MW1-MW-6 since the Method Reporting Limit (MRL) is greater than the groundwater standard.
8. "none" means the concentration detected is not significantly greater than the Groundwater Standard in any of the monitoring wells after performing *t*-test.



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

ALTAMONT ENVIRONMENTAL, INC.

ENGINEERING & HYDROGEOLOGY

50 COLLEGE STREET, ASHEVILLE, NC 28801

TEL 828.281.3350 FAC 828.281.3351

www.altamontenvironmental.com

SITE LOCATION MAP

MUNICIPAL SOLID WASTE LANDFILL
JACKSON COUNTY
NORTH CAROLINA

FIGURE

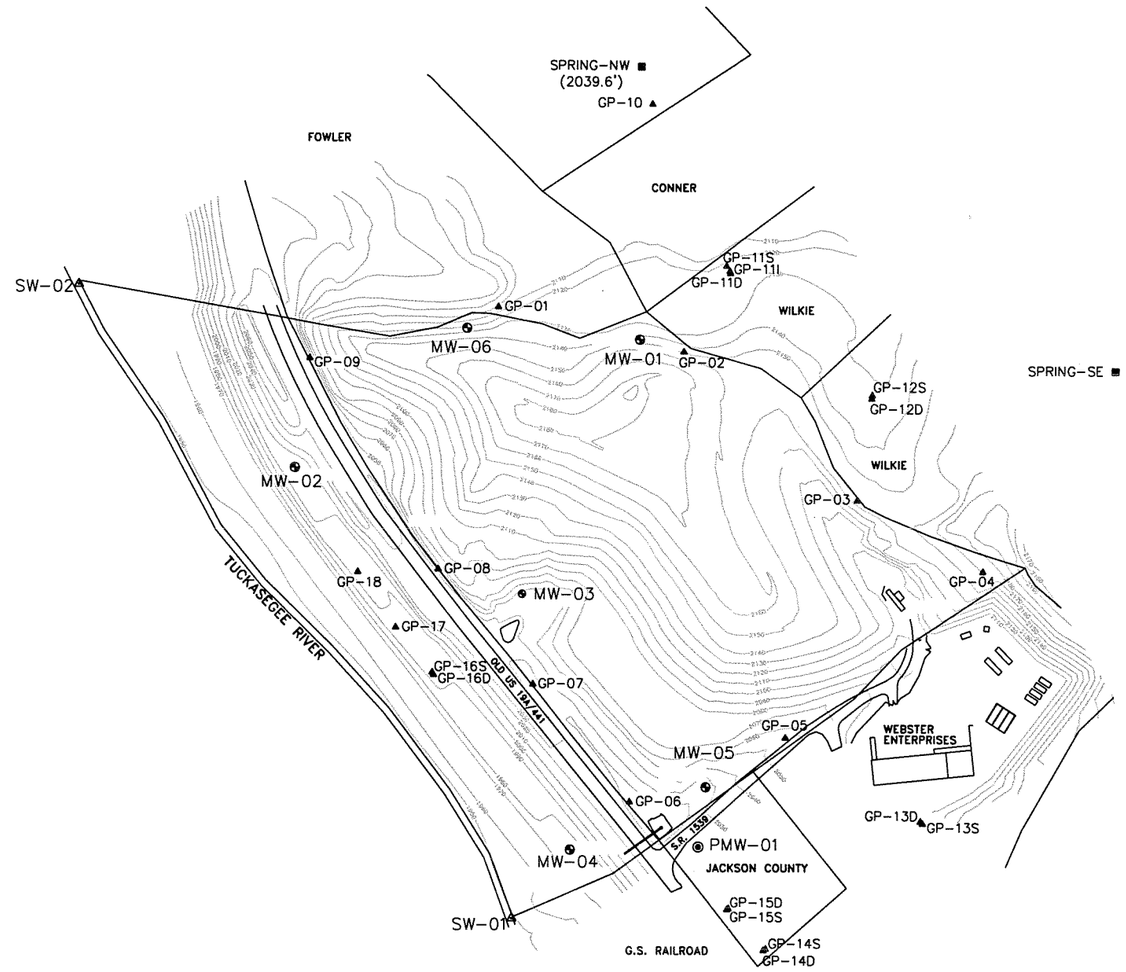
1

DRAWN BY: CHRIS GILBERT
PROJECT MANAGER: JIM McELDUFF
CLIENT: JACKSON COUNTY
DATE: 11/03/06

SCALE (FEET)

1000 0 1000 2000

FILE PATH: P:\JACKSON COUNTY\DILLSBORO GW\FIGURES\CAD\ FIGURE 1 (10-06).DWG



LEGEND:

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

NOTE:

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

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

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DRAWN BY: JAMIE KILGO
PROJECT MANAGER: JIM McELDUFF
CLIENT: JACKSON COUNTY
DATE: 11/03/06

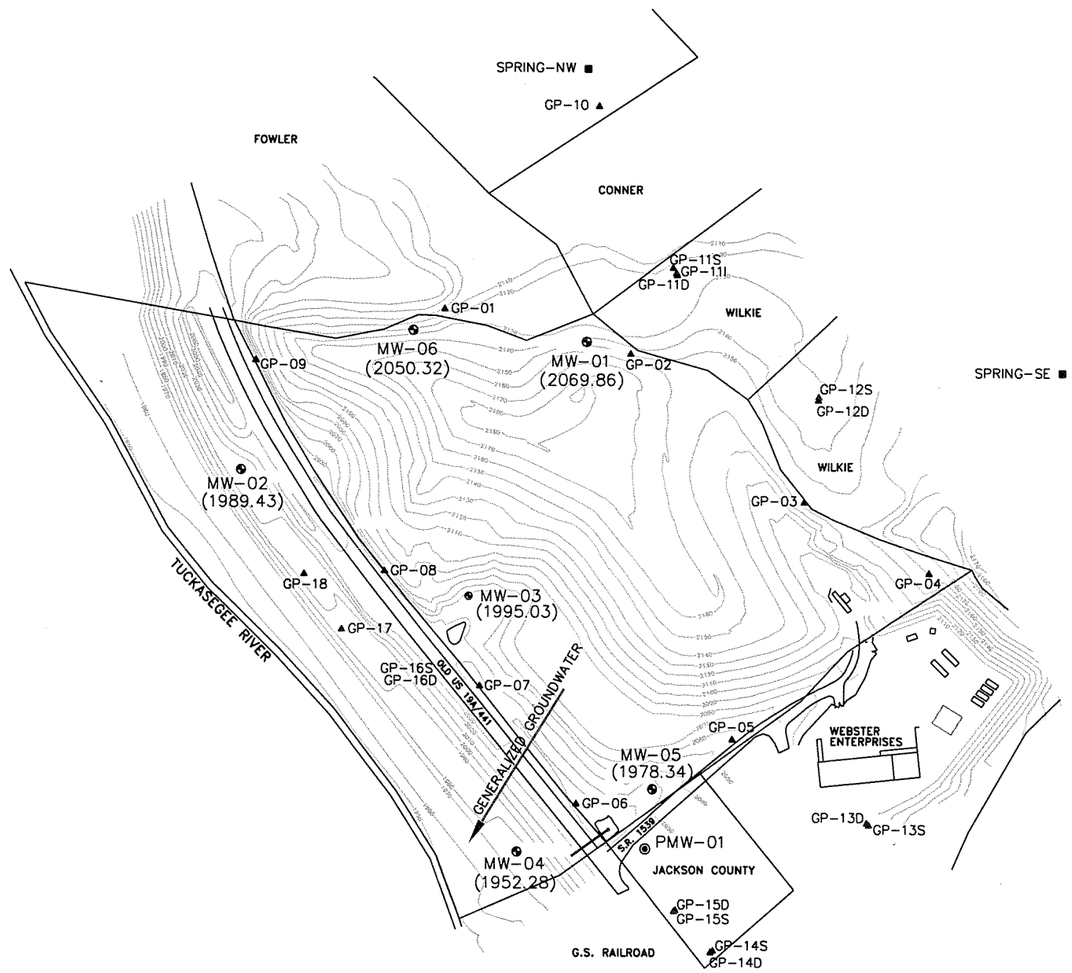
SCALE (FEET)
150 0 150 300

MONITORING WELL AND GAS PROBE LOCATION MAP

MUNICIPAL SOLID WASTE LANDFILL
JACKSON COUNTY
NORTH CAROLINA

FIGURE 2

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



LEGEND:

- MW-1 MONITORING WELL LOCATION
- SW-1 SURFACE WATER SAMPLE LOCATION
- GP-1 GAS PROBE LOCATION
- PMV-1 PRIVATE MONITORING WELL LOCATION
- SPRING-NW SPRING LOCATION
- (2071.43) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL ON OCTOBER 10, 2006

NOTE:

1. TOPOGRAPHIC CONTOURS ARE FOR REPRESENTATIVE PURPOSES. CONTOURS OBTAINED FROM McGILL ASSOCIATES.
2. GROUNDWATER FLOW DIRECTION BASED ON GROUNDWATER ELEVATIONS MEASURED IN FEET ON APRIL 3, 2007 IN MW-01, MW-02, MW-03, MW-04, MW-05, MW-06, AND PMW-01.

REV.	DATE	DESCRIPTION	BY	CHK	APV
8	05-14-07	UPDATE	JHV	SAR	
7	10-30-06	NEW TITLE BLOCK	JK	JDH	
6	06-28-06	UPDATE	ZP	JSM	
5	01-08-05	UPDATE	ZP	JSM	
4	06-18-04	UPDATE	ZP	JSM	
3	11-21-03	UPDATE	ZP	JSM	
2	05-13-02	UPDATE	SEK	JSM	
1	11-12-01	ORIGINAL	JMC	JPM	

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DRAWN BY: JENNIFER HILL-VERDE
PROJECT MANAGER: STU RYMAN
CLIENT: JACKSON COUNTY
DATE: 5/14/07

SCALE (FEET)
150 0 150 300

GENERALIZED GROUNDWATER FLOW DIRECTION-SAPROLITE AND PARTIALLY WEATHERED BEDROCK ZONE

MUNICIPAL SOLID WASTE LANDFILL
JACKSON COUNTY
NORTH CAROLINA

FIGURE 3

P:\JACKSON COUNTY\DILLSBORO GW\FIGURES\CAD\FIGURE 3 FLOW DIRECTION_0407