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

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

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

Instructions:

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

Solid Waste Monitoring Data Submittal Information

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

Municipal Engineering Services Company, PA

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

Name: Johnathan Pfohl Phone: (919) 772-5393

E-mail: jpfohl@mesco.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Cherokee County Closed MSWLF	Fairview Road (SR 1515) Marble, NC 28905	20-01	.500	August 12-13, 2009

Environmental Status: (Check all that apply)

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

Type of data submitted: (Check all that apply)

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

Notification attached?

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

Certification

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

Jonathan Pfohl — Environmental Specialist — (919) 772-5393

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

(FOR) JP FOHL — 11/25/09

Signature — Date

Affix NC Licensed/ Professional Geologist Seal

PO Box 97, Garner, NC 27529

Facility Representative Address

C-0281

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

Revised 6/2009

Semi-Annual Groundwater Sampling & Analysis Report

Prepared for

Cherokee County Closed Unlined MSWLF
Marble, North Carolina

August 2009

Permit Number: 20-01
MESCO Project Number: G09006.0

Completed on November 25, 2009

Municipal Services Garner, NC
Engineering Company, P.A. Boone, NC

Municipal Engineering Services Company, P.A.
Garner, Boone and Morehead City, North Carolina

OPERATION/CONSTRUCTION MANAGERS

Municipal Services

CIVIL/SANITARY ENGINEERS

Engineering Company, P.A.

Mr. Ervin Lane
Solid Waste Section
Division of Waste Management
North Carolina Department of Environment and Natural Resources
401 Oberlin Road, Suite 150
Raleigh, NC 27605

November 25, 2009

Re: Water Quality Sampling Report
Cherokee County Closed Unlined MSWLF
Permit No. 20-01
MESCO Project No. G09006.0

Dear Mr. Lane:

The Cherokee County Closed Unlined Municipal Solid Waste Landfill (MSWLF) located in Marble NC, that operated under permit #20-01 is required to submit semi-annual compliance reports as a condition of the monitoring program. This event was performed as a condition of the Permit to Operate in general accordance with the requirements prescribed by the NC Solid Waste rules/regulations as promulgated in 15A NCAC 13B. Municipal Engineering Services Company, P.A. (MESCO) of Garner NC performed this sampling event on September 17-18, 2009 in accordance with the established semi-annual monitoring schedule.

This report presents a summary of sampling procedures, a summary of analytical laboratory results, statistical analysis, groundwater and surface water characterization, and our findings. A table entitled "Detection Scan" which tabulates sample results, a single-day potentiometric map with flow directions/rates, and a copy of the laboratory analytical report are attached.

Sampling Procedure

Water quality samples were collected from 16 monitoring locations including seven downgradient groundwater monitoring wells (MW-1, MW-3, MW-4R, MW-5, MW-6, MW-6R, MW-7), two background wells (MW-2 and MW-2R), one surface water monitoring point located on the Valley River upstream of the facility (SW-1), and two downstream surface monitoring locations (SW-2 and SW-4) also located on the river. Residential water supply wells at four neighboring properties [Van Buskirk(Haney), Solesbee, Pendergrass, and Rathbone] were also sampled. All monitoring locations are shown upon the enclosed single-day potentiometric map.

All sampling was conducted utilizing methodology outlined in the *Solid Waste Section Guidelines for Groundwater, Soil, and Surface Water Sampling* revised April 2008. The depth to water in each well was gaged with an electronic probe prior to purging to quantify the static water level for construction of the single-day potentiometric map. In addition to the required field measurements (pH, specific conductance, temperature) additional field parameters (dissolved oxygen (DO) and total dissolved solids (TDS)) were also quantified to better discern the water quality.

MESCO personnel used portable monitoring methods to collect samples in laboratory-prepared pre-preserved containers. Balers or low-flow (peristaltic) pumps were used to purge the wells and samples were then immediately procured via a disposable baler. All samples were properly collected, separated based upon likelihood of potential cross-contamination, kept upon ice, and transported to a NC-certified laboratory under proper chain-of-custody (COC) protocol within the specified hold times for each analysis.

PO Box 97, Garner, North Carolina 27529 (919) 772-5393
PO Box 828, Morehead City, NC 28557 (252) 726-9481 PO Box 349, Boone, North Carolina 28607 (828) 262-1767

Laboratory Results

Pace Analytical Laboratories (PACE) of Huntersville and Asheville, NC performed laboratory analysis on the groundwater and surface water samples for the 40 CFR Part 258, Appendix I list of volatile organic compounds (VOCs) via EPA 8260 and total metals via EPA 6010. In addition to the Appendix I list of parameters, naphthalene, an Appendix II listed semi-volatile organic compound (SVOC), was also analyzed in sample MW-6, since low levels have previously been detected at this location. Quality control measures were also implemented during this event which included submittal and subsequent quantification of blanks for VOC analysis only.

Analytical detections were reported at levels down to the laboratory-specific method detection limits (MDL) and referenced to the Solid Waste Section Limits (SWSL) current as of the sampling event. All detected constituents were compared to the North Carolina Groundwater Standards (2L Standard), the Groundwater Protection Standards (GWP) if a 2L Standard has not been established, or the North Carolina Surface Water Standards (2B Standard) for regulatory exceedance. The results are shown in the enclosed tables titled "Detection Scan".

None of the Appendix I target metals were detected at levels above their respective 2L Standards. Elevated levels of vanadium were detected in MW-5 and MW-6 and elevated levels of cobalt and vanadium were also detected in the background well MW-2. Neither cobalt nor vanadium currently have a 2L Standard so these detections were compared to their respective GWPs.

Groundwater samples collected from monitoring wells MW-1, MW-4R, MW-5, and MW-6 contained levels of 1,4-dichlorobenzene detected above its 2L Standards. Elevated levels of benzene were detected in monitor wells MW-1, MW-4R and MW-6. Vinyl chloride was also detected above its 2L Standard in MW-4R. Naphthalene, the only Appendix II constituent analyzed during this event, was detected well below its 2L Standard in MW-6.

The surface water sample collected from upstream surface water point SW-1 contained an elevated detection of silver relative to its 2B Standard. None of the other Appendix I target analytes were detected in concentrations above their respective 2B Standards in the surface water samples or residential water supply well samples analyzed during this event.

Site-wide cumulative quantifiable VOC concentrations were found at 67.95 ug/L or approximately the 18th percentile. All total cumulative VOC concentrations were also found within their own respective historically identified first quartile indicating that the current total VOC concentrations are lower during this event than previously found. Results of temporal trend analysis at a 95% confidence level through Sen's Slope Estimator and Mann Kendall analysis indicate that the site-wide cumulative VOC concentrations are not increasing over the entire period of record dating back the last 14 years.

Data distributions were reviewed using box and whiskers plots. In order to evaluate variability in concentrations with respect to time and season, time series plots were generated for all of the analytes detected in levels above their respective 2L Standard. Time series plots were also visually evaluated for seasonality and "outliers" (defined as data that appears to be incongruent with respect to historical results). It appears that no outliers or seasonality was found in the latest data record.

Groundwater and Surface Water Characterization

MESCO constructed a single-day potentiometric map from groundwater elevation data recorded from monitoring wells screened within the regolith. Groundwater flow rates and directions were also calculated based upon this data and are included in the attached hydrologic properties table. Flow directions were calculated to be northwesterly towards the Valley River with rates ranging from approximately 12 feet/year (MW-6) to 607 feet/year (MW-3) averaging approximately 189 feet/year. All of the streams located within the facility boundaries were visually observed to be of low volume and flow. The flow directions and gradients are consistent with historical observations, showing no changes that would result in a different interpretation of the groundwater system or hinder the effectiveness of the current monitoring network.

Findings

None of the Appendix I target metals were detected at levels above their respective 2L Standards in the groundwater samples analyzed during this event. Elevated levels of vanadium were detected in MW-5 and MW-6 and elevated levels of cobalt and vanadium were also detected in the background well MW-2. Neither cobalt nor vanadium currently have a 2L Standard so these detections were compared to their respective GWPs. However, because the level of vanadium detected in the background well was several times the levels detected in the downgradient wells and cobalt was detected only in the background well, it is presumed that these detections are not attributed to landfill activities.

Localized groundwater within the on-site regolith continues to be impacted by relatively low level VOCs. During this event, monitoring wells MW-1, MW-4R, MW-5, and MW-6 were found to contain quantifiable VOCs in concentrations exceeding their respective 2L Standards. However, detection levels appear to have decreased when compared to historical detections.

Silver was the only Appendix I target analyte detected above its 2B Standard during this event. Since its detection occurred in the upstream sampling point, it is characterized as a "background" detection and should not be attributed to landfill activities. Elevated levels of other target metals or VOCs were not detected in the surface water or water supply wells sampled during this event. Surface water points SW-2 (midstream) and SW-4 (downstream) between the closed and active lined landfills continue to lack any parameters in quantifiable concentrations suggesting that neither facility has apparently impacted the Vally River, which serves as the discharge feature.

The closed landfill is scheduled to be sampled again concurrently with the Subtitle D lined landfill in February 2010. During the next sampling event, monitoring locations are tentatively planned to be sampled and analyzed for the same list of parameters. Additional field parameters may also be quantified to better determine the progress of natural attenuation. If you have any questions or comments regarding this report, please contact me at (919) 772-5393 or by email at jpfohl@mesco.com.

Sincerely,

MUNICIPAL ENGINEERING SERVICES CO., P.A.

(for)
Jonathan Pfohl
Environmental Specialist

Enclosures
cc: Mr. Robert Allen
Cherokee County

Tables

Detection Scan All Detections above SWSL, GWP, 2L, or 2B
Cherokee County Closed Unlined MSWLF

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	2L [4]	2B [5]	GWP [6]	Exceedance	Preliminary Cause
MW-1	**1,4-Dichlorobenzene**	**8/19/09**	**10.9**	**ug/L**	**0.33**	**1.0**	**1.4**			**9.5**	**Leachate &/or LFG**
MW-1	**Benzene**	**8/19/09**	**1.1**	**ug/L**	**0.25**	**1.0**	**1**			**0.1**	**Leachate &/or LFG**
MW-1	Chlorobenzene	8/19/09	10.4	ug/L	0.23	3	50				
MW-2	Barium	8/18/09	220	ug/L	0.2	100	2000				
MW-2	Beryllium	8/18/09	2.4	ug/L	0.1	1			4		
MW-2	**Cobalt**	8/18/09	**133**	**ug/L**	**0.60**	**10.0**			**70**	**63**	**Natural**
MW-2	Copper	8/18/09	20.1	ug/L	0.3	10	1000				
MW-2	**Vanadium**	**8/18/09**	**16[j]**	**ug/L**	**0.2**	**25**			**3.5**	**12.5**	**Natural**
MW-2	Zinc	8/18/09	176	ug/L	0.40	10	1050				
MW-2R	Zinc	8/18/09	42.1	ug/L	0.4	10	1050				
MW-3	Cobalt	8/18/09	43	ug/L	0.60	10			70		
MW-4R	**1,4-Dichlorobenzene**	**8/18/09**	**4.6**	**ug/L**	**0.33**	**1.0**	**1.4**			**3.2**	**Leachate &/or LFG**
MW-4R	Barium	8/18/09	103	ug/L	0.2	100	2000				
MW-4R	**Benzene**	**8/18/09**	**1.3**	**ug/L**	**0.25**	**1.0**	**1**			**0.3**	**Leachate &/or LFG**
MW-4R	cis-1,2-Dichloroethene	8/18/09	7.7	ug/L	0.19	5	70				
MW-4R	Cobalt	8/18/09	24	ug/L	0.60	10			70		
MW-4R	**Vinyl chloride**	**8/18/09**	**1.8**	**ug/L**	**0.62**	**1.0**	**0.015**			**1.785**	**Leachate &/or LFG**
MW-4R	Zinc	8/18/09	27.5	ug/L	0.40	10	1050				
MW-5	**1,4-Dichlorobenzene**	**8/19/09**	12.3	**ug/L**	**0.33**	**1.0**	**1.4**			**10.9**	**Leachate &/or LFG**
MW-5	Chlorobenzene	8/19/09	9.7	ug/L	0.23	3	50				
MW-5	**Vanadium**	**8/19/09**	**3.7[j]**	**ug/L**	**0.2**	**25**			**3.5**	**0.2**	**Natural**
MW-5	Zinc	8/19/09	18.4	ug/L	0.4	10	1050				
MW-6	**1,4-Dichlorobenzene**	**8/19/09**	12.3	**ug/L**	**0.33**	**1.0**	**1.4**			**10.9**	**Leachate &/or LFG**
MW-6	**Benzene**	**8/19/09**	1.8	**ug/L**	**0.25**	**1.0**	**1**			**0.8**	**Leachate &/or LFG**
MW-6	Chlorobenzene	8/19/09	7.8	ug/L	0.23	3	50				
MW-6	Cobalt	8/19/09	24.9	ug/L	0.6	10			70		
MW-6	Naphthalene	8/19/09	10	ug/L	0.24	1	21				
MW-6	**Vanadium**	**8/19/09**	**3.8[j]**	**ug/L**	**0.20**	**25.0**			**3.5**	**0.3**	**Natural**
MW-6	Zinc	8/19/09	29	ug/L	0.40	10	1050				
Pendergrass	Copper	8/17/09	26.9	ug/L	0.30	10	1000				
Pendergrass	Zinc	8/17/09	19.3	ug/L	0.40	10	1050				
Van Buskirk (Haney)	Copper	8/17/09	37.4	ug/L	0.30	10	1000				
Van Buskirk (Haney)	Zinc	8/17/09	17.9	ug/L	0.40	10	1050				
SW-1	**Silver**	**8/18/09**	**0.15[j]**	**ug/L**	**0.10**	**10.0**		**0.06**		**0.09**	**Natural**

[1] Table only contains detected constituents detected above the SWSL, GWP, NCGW2L or NCSW2B Standards
[2] MDL = Method Detection Limit
[3] SWSL = Solid Waste Section Reporting Limit (Current as of Sampling Event)
[4] 2L = North Carolina 15A NCAC 2L Groundwater Qualtity Standard (Current as of Sampling Event)
[5] 2B = North Carolina 15 NCAC 2B Surface Water Quality Standard for this Specific Stream Classification (Current as of Sampling Event)
[6] GWP = Groundwater Protection Standard (Current as of Sampling Event)
[J] =The reported value is estimated & between the laboratory MDL & the SWSL, adjusted for actual sample preparation data and moisture content.
[8270] = As reported by Method EPA8270
LFG = Landfill Gas
NE = Not Established

Detection Scan All Detections Reported by Laboratory (>MDL)
Cherokee County Closed Unlined MSWLF

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	2L [4]	2B [5]	GWP [6]	Exceedance	Preliminary Cause
MW-1	Chromium	8/19/09	1.6	ug/L	0.4	10	50				
MW-1	Cobalt	8/19/09	27.3	ug/L	0.6	10			70		
MW-1	Copper	8/19/09	0.45	ug/L	0.3	10	1000				
MW-1	Vanadium	8/19/09	2	ug/L	0.2	25			3.5		
MW-1	cis-1,2-Dichloroethene	8/19/09	0.94	ug/L	0.19	5	70				
MW-1	Chlorobenzene	8/19/09	10.4	ug/L	0.23	3	50				
MW-1	Zinc	8/19/09	9.1	ug/L	0.4	10	1050				
MW-1	Nickel	8/19/09	11.4	ug/L	1.7	50	100				
MW-1	Barium	8/19/09	61.1	ug/L	0.2	100	2000				
MW-1	**Benzene**	**8/19/09**	**1.1**	**ug/L**	**0.25**	**1.0**	**1**			**0.1**	**Leachate &/or LFG**
MW-1	Silver	8/19/09	3	ug/L	0.1	10	18				
MW-1	**1,4-Dichlorobenzene**	**8/19/09**	**10.9**	**ug/L**	**0.33**	**1.0**	**1.4**			**9.5**	**Leachate &/or LFG**
MW-1	1,2-Dichlorobenzene	8/19/09	0.74	ug/L	0.3	5	620				
MW-2R	Beryllium	8/18/09	0.24	ug/L	0.1	1			4		
MW-2R	Chromium	8/18/09	1.2	ug/L	0.4	10	50				
MW-2R	Zinc	8/18/09	42.1	ug/L	0.4	10	1050				
MW-2R	Nickel	8/18/09	14.6	ug/L	1.7	50	100				
MW-2R	Vanadium	8/18/09	1.5	ug/L	0.2	25			3.5		
MW-2R	Trichloroethene	8/18/09	0.6	ug/L	0.47	1	2.8				
MW-2R	Copper	8/18/09	4.6	ug/L	0.3	10	1000				
MW-2R	Silver	8/18/09	0.19	ug/L	0.1	10	18				
MW-2R	Barium	8/18/09	39.2	ug/L	0.2	100	2000				
MW-2R	Cobalt	8/18/09	8.8	ug/L	0.6	10			70		
MW-2	1,4-Dichlorobenzene	8/18/09	0.39	ug/L	0.33	1	1.4				
MW-2	Copper	8/18/09	20.1	ug/L	0.3	10	1000				
MW-2	**Vanadium**	**8/18/09**	**16[j]**	**ug/L**	**0.2**	**25**			**3.5**	**12.5**	**Natural**
MW-2	cis-1,2-Dichloroethene	8/18/09	1.9	ug/L	0.19	5	70				
MW-2	**Cobalt**	**8/18/09**	**133**	**ug/L**	**0.6**	**10**			**70**	**63**	**Natural**
MW-2	Chromium	8/18/09	7.5	ug/L	0.4	10	50				
MW-2	Zinc	8/18/09	176	ug/L	0.4	10	1050				
MW-2	1,1-Dichloroethane	8/18/09	1.7	ug/L	0.32	5	70				
MW-2	Nickel	8/18/09	82.3	ug/L	1.7	50	100				
MW-2	Lead	8/18/09	12.8	ug/L	4	10	15				
MW-2	Trichloroethene	8/18/09	1.3	ug/L	0.47	1	2.8				
MW-2	Barium	8/18/09	220	ug/L	0.2	100	2000				
MW-2	Cadmium	8/18/09	0.85	ug/L	0.5	1	1.75				
MW-2	Benzene	8/18/09	0.53	ug/L	0.25	1	1				
MW-2	Silver	8/18/09	0.47	ug/L	0.1	10	18				
MW-2	Beryllium	8/18/09	2.4	ug/L	0.1	1			4		
MW-3	Chromium	8/18/09	5.6	ug/L	0.4	10	50				
MW-3	Cadmium	8/18/09	0.83	ug/L	0.5	1	1.75				
MW-3	Chlorobenzene	8/18/09	0.58	ug/L	0.23	3	50				
MW-3	Cobalt	8/18/09	41.1	ug/L	0.6	10			70		
MW-3	Zinc	8/18/09	6.6	ug/L	0.4	10	1050				
MW-3	Copper	8/18/09	1.9	ug/L	0.3	10	1000				
MW-3	Barium	8/18/09	85.7	ug/L	0.2	100	2000				
MW-3	Nickel	8/18/09	2.9	ug/L	1.7	50	100				
MW-3	Silver	8/18/09	0.31	ug/L	0.1	10	18				
MW-4R	**Benzene**	**8/18/09**	**1.3**	**ug/L**	**0.25**	**1.0**	**1**			**0.3**	**Leachate &/or LFG**
MW-4R	Cobalt	8/18/09	24.1	ug/L	0.6	10			70		
MW-4R	Chlorobenzene	8/18/09	0.44	ug/L	0.23	3	50				

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	2L [4]	2B [5]	GWP [6]	Exceedance	Preliminary Cause
MW-4R	Cadmium	8/18/09	0.62	ug/L	0.5	1	1.75				
MW-4R	1,1-Dichloroethane	8/18/09	0.76	ug/L	0.32	5	70				
MW-4R	Silver	8/18/09	0.78	ug/L	0.1	10	18				
MW-4R	Selenium	8/18/09	4.1	ug/L	3.8	10	50				
MW-4R	**Vinyl chloride**	**8/18/09**	**1.8**	**ug/L**	**0.62**	**1.0**	**0.015**			**1.785**	**Leachate &/or LFG**
MW-4R	Barium	8/18/09	103	ug/L	0.2	100	2000				
MW-4R	**1,4-Dichlorobenzene**	**8/18/09**	**4.6**	**ug/L**	**0.33**	**1.0**	**1.4**			**3.2**	**Leachate &/or LFG**
MW-4R	cis-1,2-Dichloroethene	8/18/09	7.7	ug/L	0.19	5	70				
MW-4R	Zinc	8/18/09	27.5	ug/L	0.4	10	1050				
MW-5	cis-1,2-Dichloroethene	8/19/09	4.4	ug/L	0.19	5	70				
MW-5	Silver	8/19/09	0.97	ug/L	0.1	10	18				
MW-5	**1,4-Dichlorobenzene**	**8/19/09**	**12.3**	**ug/L**	**0.33**	**1.0**	**1.4**			**10.9**	**Leachate &/or LFG**
MW-5	**Vanadium**	**8/19/09**	**3.7[j]**	**ug/L**	**0.2**	**25**			**3.5**	**0.2**	**Natural**
MW-5	Chlorobenzene	8/19/09	9.7	ug/L	0.23	3	50				
MW-5	Nickel	8/19/09	9.8	ug/L	1.7	50	100				
MW-5	Benzene	8/19/09	0.89	ug/L	0.25	1	1				
MW-5	Zinc	8/19/09	18.4	ug/L	0.4	10	1050				
MW-5	1,2-Dichlorobenzene	8/19/09	0.73	ug/L	0.3	5	620				
MW-5	Copper	8/19/09	0.92	ug/L	0.3	10	1000				
MW-5	Beryllium	8/19/09	0.57	ug/L	0.1	1			4		
MW-5	Barium	8/19/09	47.4	ug/L	0.2	100	2000				
MW-5	Chromium	8/19/09	3.9	ug/L	0.4	10	50				
MW-5	Cobalt	8/19/09	5.6	ug/L	0.6	10			70		
MW-6R	Vanadium	8/18/09	0.55	ug/L	0.2	25			3.5		
MW-6R	Barium	8/18/09	11	ug/L	0.2	100	2000				
MW-6R	Chromium	8/18/09	0.53	ug/L	0.4	10	50				
MW-6R	Copper	8/18/09	2.3	ug/L	0.3	10	1000				
MW-6R	Beryllium	8/18/09	0.44	ug/L	0.1	1			4		
MW-6R	Zinc	8/18/09	7.6	ug/L	0.4	10	1050				
MW-6	Nickel	8/19/09	4.7	ug/L	1.7	50	100				
MW-6	Beryllium	8/19/09	0.39	ug/L	0.1	1			4		
MW-6	Silver	8/19/09	0.34	ug/L	0.1	10	18				
MW-6	Barium	8/19/09	50.9	ug/L	0.2	100	2000				
MW-6	Zinc	8/19/09	29	ug/L	0.4	10	1050				
MW-6	Silver	8/19/09	0.34	ug/L	0.1	10	18				
MW-6	1,1-Dichloroethane	8/19/09	0.41	ug/L	0.32	5	70				
MW-6	Cobalt	8/19/09	24.9	ug/L	0.6	10			70		
MW-6	Beryllium	8/19/09	0.39	ug/L	0.1	1			4		
MW-6	Chromium	8/19/09	3.1	ug/L	0.4	10	50				
MW-6	Copper	8/19/09	5.3	ug/L	0.3	10	1000				
MW-6	Zinc	8/19/09	29	ug/L	0.4	10	1050				
MW-6	Naphthalene	8/19/09	10	ug/L	0.24	1	21				
MW-6	**1,4-Dichlorobenzene**	**8/19/09**	**14.3**	**ug/L**	**0.33**	**1.0**	**1.4**			**12.9**	**Leachate &/or LFG**
MW-6	Chromium	8/19/09	3.1	ug/L	0.4	10	50				
MW-6	Barium	8/19/09	50.9	ug/L	0.2	100	2000				
MW-6	**Benzene**	**8/19/09**	**1.8**	**ug/L**	**0.25**	**1.0**	**1**			**0.8**	**Leachate &/or LFG**
MW-6	**Vanadium**	**8/19/09**	**3.8[j]**	**ug/L**	**0.2**	**25**			**3.5**	**0.3**	**Natural**
MW-6	Copper	8/19/09	5.3	ug/L	0.3	10	1000				
MW-6	Chlorobenzene	8/19/09	7.8	ug/L	0.23	3	50				
MW-6	Nickel	8/19/09	4.7	ug/L	1.7	50	100				
MW-6	1,2-Dichlorobenzene	8/19/09	0.42	ug/L	0.3	5	620				
MW-6	cis-1,2-Dichloroethene	8/19/09	4	ug/L	0.19	5	70				
MW-7	1,4-Dichlorobenzene	8/19/09	0.91	ug/L	0.33	1	1.4				
MW-7	Silver	8/19/09	0.51	ug/L	0.1	10	18				

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	2L [4]	2B [5]	GWP [6]	Exceedance	Preliminary Cause
MW-7	Chlorobenzene	8/19/09	1	ug/L	0.23	3	50				
MW-7	Vanadium	8/19/09	0.34	ug/L	0.2	25			3.5		
MW-7	Zinc	8/19/09	4.5	ug/L	0.4	10	1050				
MW-7	Barium	8/19/09	40.8	ug/L	0.2	100	2000				
MW-7	Copper	8/19/09	1.4	ug/L	0.3	10	1000				
SW-1	Vanadium	8/18/09	0.24	ug/L	0.2	25		NE			
SW-1	Copper	8/18/09	0.41	ug/L	0.3	10		7			
SW-1	**Silver**	**8/18/09**	**0.15[j]**	**ug/L**	**0.1**	**10**		**0.06**		**0.09**	**Natural**
SW-1	Zinc	8/18/09	7	ug/L	0.4	10		50			
SW-1	Barium	8/18/09	7.3	ug/L	0.2	100		20000			
PENDERGRASS	Copper	8/17/09	26.9	ug/L	0.3	10	1000				
PENDERGRASS	Zinc	8/17/09	19.3	ug/L	0.4	10	1050				
PENDERGRASS	Barium	8/17/09	6.7	ug/L	0.2	100	2000				
PENDERGRASS	Chromium	8/17/09	0.7	ug/L	0.4	10	50				
SOLESBEE	Vanadium	8/17/09	0.24	ug/L	0.2	25			3.5		
SOLESBEE	Barium	8/17/09	1.7	ug/L	0.2	100	2000				
SOLESBEE	Zinc	8/17/09	6.4	ug/L	0.4	10	1050				
VAN BUSKIRK (HANEY)	Beryllium	8/17/09	0.21	ug/L	0.1	1			4		
VAN BUSKIRK (HANEY)	Chromium	8/17/09	1.5	ug/L	0.4	10	50				
VAN BUSKIRK (HANEY)	Barium	8/17/09	24.9	ug/L	0.2	100	2000				
VAN BUSKIRK (HANEY)	Zinc	8/17/09	17.9	ug/L	0.4	10	1050				
VAN BUSKIRK (HANEY)	Copper	8/17/09	37.4	ug/L	0.3	10	1000				

[1] Table contains all constituents detected above MDL

[2] MDL = Method Detection Limit

[3] SWSL = Solid Waste Section Reporting Limit (Current as of Sampling Event)

[4] 2L = North Carolina Ground Water 2L Standard (Current as of Sampling Event)

[6] GWP = Groundwater Protection Standard (Current as of Sampling Event)

[J] =The reported value is estimated & between the laboratory MDL & the SWSL, adjusted for actual sample preparation data and moisture content, where applicable.

LFG = Landfill Gas

NE = Not Established

BOLD = Concentration >GWP, 2L Standard (Current as of Sampling Event)

Hydrologic Properties at Monitoring Well Locations
Cherokee County Closed Unlined MSWLF

Monitoring Well	Hydraulic Conductivity (cm/sec)	Effective Porosity (%)	Hydraulic Gradient	Flow Rate (ft/yr)	Flow Direction	Water Table Depth Below Casing (ft)	Water Table Elevation (ft)	Screened Interval Lithology
MW-1	5.50E-04	15%	0.04	159	N37W	5.36	1636.52	PWR
MW-2	4.40E-04	15%	0.06	177	N60W	25.78	1692.19	Silty Clay
MW-2R	n/a	n/a	0.06	n/a	N60W	13.32	1693.30	Silty Clay
MW-3	1.50E-03	15%	0.06	607	N49W	8.40	1680.17	Silty Clay
MW-4R	3.50E-04	15%	0.06	153	N46W	8.15	1639.04	Clayey Sand/Schist
MW-5	1.20E-04	20%	0.06	35	N45W	6.71	1637.90	Sand
MW-6	5.10E-05	15%	0.04	12	N46W	30.95	1657.00	Sandy Silt
MW-6R	n/a	n/a	0.01	n/a	N43W	10.24	1655.57	Sandy Silt
MW-7	2.90E-04	5%	0.03	184	N32W	5.98	1640.87	Clayey SandPhyllite

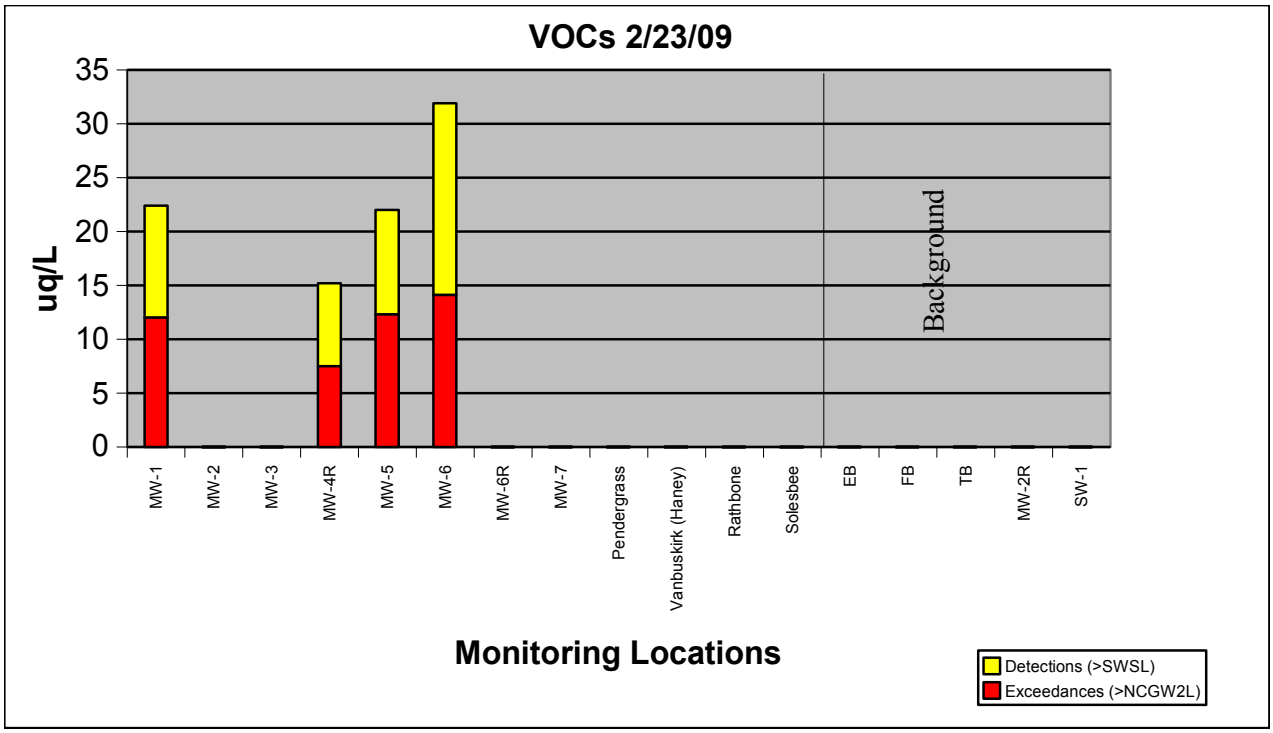
NOTE: Data for conductivities and effective porosity obtained from GAI Consultants' Water Sampling Report
Hydrologic Gradient taken from August 18, 2009 sampling event.
Wells screened in rock not utilized for flow directions/gradients.

Flow rate (Q) is defined by the equation:

where $$Q = -\frac{K}{n_e} \cdot \frac{dh}{dl}$$

K = hydraulic conductivity
n*e* = effective porosity
dh = head difference
dl = horizontal distance

VOC Histogram for All Detections above SWSL, GWP, NCGW2L, or NCSW2B
Cherokee County Closed Unlined MSWLF



Sample ID	Detected >SWSL<NCGW2L		Detected >NCGW2L		Cumulative >SWSL & >NCGW2L		Exceeded NCGW2L Aromatic Parameter(s)	Exceeded NCGW2L CAH Parameter(s)	Exceeded Parameter(s) Detected >Historical Identified Range
	#	Concentration (uq/L)	#	Concentration (uq/L)	#	Concentration (uq/L)			
MW-1	1	10.4	2	12	3	22.4	1,4-DCB, Benzene	-	-
MW-2	0	0	0	0	0	0	-	-	
MW-3	0	0	0	0	0	0	-	-	-
MW-4R	0	7.7	1	7.5	1	15.2	1,4-DCB, Benzene	VCM	-
MW-5	1	9.7	1	12.3	2	22	1,4-DCB, Chlorobenzene		-
MW-6	2	17.8	2	14.1	4	31.9	1,4-DCB, Benzene, Chlorobenzene, Naphthalene	-	-
Total	**4**	**45.60**	**6**	**45.90**	**10**	**91.50**	**4**	**1**	**1**

Table only contains VOC constituents detected above the SWSL, GWP, or NCGW2L Standard

SWSL = Solid Waste Section Reporting Limit (Current as of Sampling Event)

NCGW2L = North Carolina Ground Water 2L Standard (Current as of Sampling Event)

[J] = Detected >NCGW2L BUT <SWSL ("J" Qualifier) Therefore, concentration non-quantifiable or an estimated value

Data Available Upon Request

Laboratory Results

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August 31, 2009

Mr. Jonathan Pfohl
Municipal Engineering Services
PO Box 97
Garner, NC 27529

RE: Project: CHEROKEE CLOSED MSWLF
Pace Project No.: 9251280

Dear Mr. Pfohl:
Enclosed are the analytical results for sample(s) received by the laboratory on August 19, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

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

Sincerely,

Bonnie McKee

Bonnie McKee

bonnie.mckee@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CHEROKEE CLOSED MSWLF
Pace Project No.: 9251280

Charlotte Certification IDs

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

Asheville Certification IDs

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

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SAMPLE SUMMARY

Project: CHEROKEE CLOSED MSWLF
Pace Project No.: 9251280

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9251280001	**MW-1**	Water	08/19/09 09:05	08/19/09 13:10
9251280002	**MW-2**	Water	08/18/09 14:25	08/19/09 13:10
9251280003	**MW-2R**	Water	08/18/09 13:00	08/19/09 13:10
9251280004	**MW-3**	Water	08/18/09 16:40	08/19/09 13:10
9251280005	**MW-4R**	Water	08/18/09 16:00	08/19/09 13:10
9251280006	**MW-5**	Water	08/19/09 08:35	08/19/09 13:10
9251280007	**MW-6**	Water	08/19/09 08:00	08/19/09 13:10
9251280008	**MW-6R**	Water	08/18/09 17:25	08/19/09 13:10
9251280009	**MW-7**	Water	08/19/09 09:40	08/19/09 13:10
9251280010	**PENDERGRASS**	Water	08/17/09 17:00	08/19/09 13:10
9251280011	**SOLESBEE**	Water	08/17/09 17:15	08/19/09 13:10
9251280012	**VAN BUSKIRK (HANEY)**	Water	08/17/09 17:25	08/19/09 13:10

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SAMPLE ANALYTE COUNT

Project: CHEROKEE CLOSED MSWLF
Pace Project No.: 9251280

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9251280001	**MW-1**	EPA 6010	SHB	15	PASI-A
		EPA 8260	MCK	54	PASI-C
9251280002	**MW-2**	EPA 6010	SHB	15	PASI-A
		EPA 8260	MCK	54	PASI-C
9251280003	**MW-2R**	EPA 6010	SHB	15	PASI-A
		EPA 8260	MCK	54	PASI-C
9251280004	**MW-3**	EPA 6010	SHB	15	PASI-A
		EPA 8260	MCK	54	PASI-C
9251280005	**MW-4R**	EPA 6010	SHB	15	PASI-A
		EPA 8260	MCK	54	PASI-C
9251280006	**MW-5**	EPA 6010	SHB	15	PASI-A
		EPA 8260	MCK	54	PASI-C
9251280007	**MW-6**	EPA 6010	SHB	15	PASI-A
		EPA 8260	MCK	55	PASI-C
9251280008	**MW-6R**	EPA 6010	SHB	15	PASI-A
		EPA 8260	MCK	54	PASI-C
9251280009	**MW-7**	EPA 6010	SHB	15	PASI-A
		EPA 8260	MCK	54	PASI-C
9251280010	**PENDERGRASS**	EPA 6010	SHB	15	PASI-A
		EPA 8260	MCK	54	PASI-C
9251280011	**SOLESBEE**	EPA 6010	SHB	15	PASI-A
		EPA 8260	MCK	54	PASI-C
9251280012	**VAN BUSKIRK (HANEY)**	EPA 6010	SHB	15	PASI-A
		EPA 8260	MCK	54	PASI-C

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ANALYTICAL RESULTS

Project: CHEROKEE CLOSED MSWLF
Pace Project No.: 9251280

Sample: MW-1 **Lab ID: 9251280001** Collected: 08/19/09 09:05 Received: 08/19/09 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	2.6	1	08/20/09 11:35	08/26/09 23:23	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	08/20/09 11:35	08/26/09 23:23	7440-38-2	
Barium	**61.1J**	ug/L	100	0.20	1	08/20/09 11:35	08/26/09 23:23	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	08/20/09 11:35	08/26/09 23:23	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	08/20/09 11:35	08/26/09 23:23	7440-43-9	
Chromium	**1.6J**	ug/L	10.0	0.40	1	08/20/09 11:35	08/26/09 23:23	7440-47-3	
Cobalt	**27.3**	ug/L	10.0	0.60	1	08/20/09 11:35	08/26/09 23:23	7440-48-4	
Copper	**0.45J**	ug/L	10.0	0.30	1	08/20/09 11:35	08/26/09 23:23	7440-50-8	
Lead	ND	ug/L	10.0	4.0	1	08/20/09 11:35	08/26/09 23:23	7439-92-1	
Nickel	**11.4J**	ug/L	50.0	1.7	1	08/20/09 11:35	08/26/09 23:23	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	08/20/09 11:35	08/26/09 23:23	7782-49-2	
Silver	**3.0J**	ug/L	10.0	0.10	1	08/20/09 11:35	08/26/09 23:23	7440-22-4	Z2
Thallium	ND	ug/L	5.5	3.0	1	08/20/09 11:35	08/26/09 23:23	7440-28-0	
Vanadium	**2.0J**	ug/L	25.0	0.20	1	08/20/09 11:35	08/26/09 23:23	7440-62-2	
Zinc	**9.1J**	ug/L	10.0	0.40	1	08/20/09 11:35	08/26/09 23:23	7440-66-6	Z2
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		08/24/09 12:40	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		08/24/09 12:40	107-13-1	
Benzene	**1.1**	ug/L	1.0	0.25	1		08/24/09 12:40	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		08/24/09 12:40	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/24/09 12:40	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		08/24/09 12:40	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		08/24/09 12:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		08/24/09 12:40	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		08/24/09 12:40	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/24/09 12:40	56-23-5	
Chlorobenzene	**10.4**	ug/L	3.0	0.23	1		08/24/09 12:40	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		08/24/09 12:40	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		08/24/09 12:40	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/24/09 12:40	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		08/24/09 12:40	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		08/24/09 12:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/24/09 12:40	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		08/24/09 12:40	74-95-3	
1,2-Dichlorobenzene	**0.74J**	ug/L	5.0	0.30	1		08/24/09 12:40	95-50-1	
1,4-Dichlorobenzene	**10.9**	ug/L	1.0	0.33	1		08/24/09 12:40	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		08/24/09 12:40	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		08/24/09 12:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/24/09 12:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		08/24/09 12:40	75-35-4	
cis-1,2-Dichloroethene	**0.94J**	ug/L	5.0	0.19	1		08/24/09 12:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		08/24/09 12:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/24/09 12:40	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/24/09 12:40	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/24/09 12:40	10061-01-5	

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ANALYTICAL RESULTS

Project: CHEROKEE CLOSED MSWLF
Pace Project No.: 9251280

Sample: MW-1 **Lab ID: 9251280001** Collected: 08/19/09 09:05 Received: 08/19/09 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/24/09 12:40	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/24/09 12:40	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		08/24/09 12:40	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		08/24/09 12:40	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		08/24/09 12:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		08/24/09 12:40	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		08/24/09 12:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		08/24/09 12:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		08/24/09 12:40	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/24/09 12:40	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/24/09 12:40	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/24/09 12:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/24/09 12:40	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/24/09 12:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/24/09 12:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/24/09 12:40	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		08/24/09 12:40	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/24/09 12:40	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		08/24/09 12:40	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/24/09 12:40	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		08/24/09 12:40	95-47-6	
4-Bromofluorobenzene (S)	99	%	87-109		1		08/24/09 12:40	460-00-4	
Dibromofluoromethane (S)	108	%	85-115		1		08/24/09 12:40	1868-53-7	
1,2-Dichloroethane-d4 (S)	111	%	79-120		1		08/24/09 12:40	17060-07-0	
Toluene-d8 (S)	98	%	70-120		1		08/24/09 12:40	2037-26-5	

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ANALYTICAL RESULTS

Project: CHEROKEE CLOSED MSWLF
Pace Project No.: 9251280

Sample: MW-2 **Lab ID: 9251280002** Collected: 08/18/09 14:25 Received: 08/19/09 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	2.6	1	08/20/09 11:35	08/26/09 23:27	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	08/20/09 11:35	08/26/09 23:27	7440-38-2	
Barium	**220**	ug/L	100	0.20	1	08/20/09 11:35	08/26/09 23:27	7440-39-3	
Beryllium	**2.4**	ug/L	1.0	0.10	1	08/20/09 11:35	08/26/09 23:27	7440-41-7	
Cadmium	**0.85J**	ug/L	1.0	0.50	1	08/20/09 11:35	08/26/09 23:27	7440-43-9	
Chromium	**7.5J**	ug/L	10.0	0.40	1	08/20/09 11:35	08/26/09 23:27	7440-47-3	
Cobalt	**133**	ug/L	10.0	0.60	1	08/20/09 11:35	08/26/09 23:27	7440-48-4	
Copper	**20.1**	ug/L	10.0	0.30	1	08/20/09 11:35	08/26/09 23:27	7440-50-8	
Lead	**12.8**	ug/L	10.0	4.0	1	08/20/09 11:35	08/26/09 23:27	7439-92-1	
Nickel	**82.3**	ug/L	50.0	1.7	1	08/20/09 11:35	08/26/09 23:27	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	08/20/09 11:35	08/26/09 23:27	7782-49-2	
Silver	**0.47J**	ug/L	10.0	0.10	1	08/20/09 11:35	08/26/09 23:27	7440-22-4	Z2
Thallium	ND	ug/L	5.5	3.0	1	08/20/09 11:35	08/26/09 23:27	7440-28-0	
Vanadium	**16.0J**	ug/L	25.0	0.20	1	08/20/09 11:35	08/26/09 23:27	7440-62-2	
Zinc	**176**	ug/L	10.0	0.40	1	08/20/09 11:35	08/26/09 23:27	7440-66-6	Z2
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		08/23/09 17:40	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		08/23/09 17:40	107-13-1	
Benzene	**0.53J**	ug/L	1.0	0.25	1		08/23/09 17:40	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		08/23/09 17:40	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/23/09 17:40	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		08/23/09 17:40	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		08/23/09 17:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		08/23/09 17:40	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		08/23/09 17:40	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/23/09 17:40	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		08/23/09 17:40	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		08/23/09 17:40	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		08/23/09 17:40	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/23/09 17:40	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		08/23/09 17:40	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		08/23/09 17:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/23/09 17:40	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		08/23/09 17:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		08/23/09 17:40	95-50-1	
1,4-Dichlorobenzene	**0.39J**	ug/L	1.0	0.33	1		08/23/09 17:40	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		08/23/09 17:40	110-57-6	
1,1-Dichloroethane	**1.7J**	ug/L	5.0	0.32	1		08/23/09 17:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/23/09 17:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		08/23/09 17:40	75-35-4	
cis-1,2-Dichloroethene	**1.9J**	ug/L	5.0	0.19	1		08/23/09 17:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		08/23/09 17:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/23/09 17:40	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/23/09 17:40	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/23/09 17:40	10061-01-5	

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ANALYTICAL RESULTS

Project: CHEROKEE CLOSED MSWLF
Pace Project No.: 9251280

Sample: MW-2 **Lab ID: 9251280002** Collected: 08/18/09 14:25 Received: 08/19/09 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/23/09 17:40	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/23/09 17:40	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		08/23/09 17:40	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		08/23/09 17:40	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		08/23/09 17:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		08/23/09 17:40	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		08/23/09 17:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		08/23/09 17:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		08/23/09 17:40	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/23/09 17:40	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/23/09 17:40	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/23/09 17:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/23/09 17:40	79-00-5	
Trichloroethene	**1.3**	ug/L	1.0	0.47	1		08/23/09 17:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/23/09 17:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/23/09 17:40	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		08/23/09 17:40	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/23/09 17:40	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		08/23/09 17:40	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/23/09 17:40	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		08/23/09 17:40	95-47-6	
4-Bromofluorobenzene (S)	96	%	87-109		1		08/23/09 17:40	460-00-4	
Dibromofluoromethane (S)	109	%	85-115		1		08/23/09 17:40	1868-53-7	
1,2-Dichloroethane-d4 (S)	115	%	79-120		1		08/23/09 17:40	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		08/23/09 17:40	2037-26-5	

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ANALYTICAL RESULTS

Project: CHEROKEE CLOSED MSWLF
Pace Project No.: 9251280

Sample: MW-2R **Lab ID: 9251280003** Collected: 08/18/09 13:00 Received: 08/19/09 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	2.6	1	08/20/09 11:35	08/26/09 23:31	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	08/20/09 11:35	08/26/09 23:31	7440-38-2	
Barium	**39.2J**	ug/L	100	0.20	1	08/20/09 11:35	08/26/09 23:31	7440-39-3	
Beryllium	**0.24J**	ug/L	1.0	0.10	1	08/20/09 11:35	08/26/09 23:31	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	08/20/09 11:35	08/26/09 23:31	7440-43-9	
Chromium	**1.2J**	ug/L	10.0	0.40	1	08/20/09 11:35	08/26/09 23:31	7440-47-3	
Cobalt	**8.8J**	ug/L	10.0	0.60	1	08/20/09 11:35	08/26/09 23:31	7440-48-4	
Copper	**4.6J**	ug/L	10.0	0.30	1	08/20/09 11:35	08/26/09 23:31	7440-50-8	
Lead	ND	ug/L	10.0	4.0	1	08/20/09 11:35	08/26/09 23:31	7439-92-1	
Nickel	**14.6J**	ug/L	50.0	1.7	1	08/20/09 11:35	08/26/09 23:31	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	08/20/09 11:35	08/26/09 23:31	7782-49-2	
Silver	**0.19J**	ug/L	10.0	0.10	1	08/20/09 11:35	08/26/09 23:31	7440-22-4	Z2
Thallium	ND	ug/L	5.5	3.0	1	08/20/09 11:35	08/26/09 23:31	7440-28-0	
Vanadium	**1.5J**	ug/L	25.0	0.20	1	08/20/09 11:35	08/26/09 23:31	7440-62-2	
Zinc	**42.1**	ug/L	10.0	0.40	1	08/20/09 11:35	08/26/09 23:31	7440-66-6	Z2
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		08/23/09 18:00	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		08/23/09 18:00	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		08/23/09 18:00	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		08/23/09 18:00	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/23/09 18:00	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		08/23/09 18:00	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		08/23/09 18:00	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		08/23/09 18:00	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		08/23/09 18:00	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/23/09 18:00	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		08/23/09 18:00	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		08/23/09 18:00	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		08/23/09 18:00	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/23/09 18:00	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		08/23/09 18:00	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		08/23/09 18:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/23/09 18:00	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		08/23/09 18:00	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		08/23/09 18:00	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/23/09 18:00	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		08/23/09 18:00	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		08/23/09 18:00	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/23/09 18:00	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		08/23/09 18:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		08/23/09 18:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		08/23/09 18:00	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/23/09 18:00	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/23/09 18:00	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/23/09 18:00	10061-01-5	

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ANALYTICAL RESULTS

Project: CHEROKEE CLOSED MSWLF
Pace Project No.: 9251280

Sample: MW-2R **Lab ID: 9251280003** Collected: 08/18/09 13:00 Received: 08/19/09 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/23/09 18:00	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/23/09 18:00	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		08/23/09 18:00	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		08/23/09 18:00	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		08/23/09 18:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		08/23/09 18:00	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		08/23/09 18:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		08/23/09 18:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		08/23/09 18:00	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/23/09 18:00	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/23/09 18:00	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/23/09 18:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/23/09 18:00	79-00-5	
Trichloroethene	**0.60J**	ug/L	1.0	0.47	1		08/23/09 18:00	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/23/09 18:00	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/23/09 18:00	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		08/23/09 18:00	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/23/09 18:00	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		08/23/09 18:00	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/23/09 18:00	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		08/23/09 18:00	95-47-6	
4-Bromofluorobenzene (S)	99	%	87-109		1		08/23/09 18:00	460-00-4	
Dibromofluoromethane (S)	110	%	85-115		1		08/23/09 18:00	1868-53-7	
1,2-Dichloroethane-d4 (S)	116	%	79-120		1		08/23/09 18:00	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		08/23/09 18:00	2037-26-5	

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ANALYTICAL RESULTS

Project: CHEROKEE CLOSED MSWLF
Pace Project No.: 9251280

Sample: MW-3 **Lab ID: 9251280004** Collected: 08/18/09 16:40 Received: 08/19/09 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	2.6	1	08/20/09 11:35	08/26/09 23:34	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	08/20/09 11:35	08/26/09 23:34	7440-38-2	
Barium	**85.7J**	ug/L	100	0.20	1	08/20/09 11:35	08/26/09 23:34	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	08/20/09 11:35	08/26/09 23:34	7440-41-7	
Cadmium	**0.83J**	ug/L	1.0	0.50	1	08/20/09 11:35	08/26/09 23:34	7440-43-9	
Chromium	**5.6J**	ug/L	10.0	0.40	1	08/20/09 11:35	08/26/09 23:34	7440-47-3	
Cobalt	**41.1**	ug/L	10.0	0.60	1	08/20/09 11:35	08/26/09 23:34	7440-48-4	
Copper	**1.9J**	ug/L	10.0	0.30	1	08/20/09 11:35	08/26/09 23:34	7440-50-8	
Lead	ND	ug/L	10.0	4.0	1	08/20/09 11:35	08/26/09 23:34	7439-92-1	
Nickel	**2.9J**	ug/L	50.0	1.7	1	08/20/09 11:35	08/26/09 23:34	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	08/20/09 11:35	08/26/09 23:34	7782-49-2	
Silver	**0.31J**	ug/L	10.0	0.10	1	08/20/09 11:35	08/26/09 23:34	7440-22-4	Z2
Thallium	ND	ug/L	5.5	3.0	1	08/20/09 11:35	08/26/09 23:34	7440-28-0	
Vanadium	ND	ug/L	25.0	0.20	1	08/20/09 11:35	08/26/09 23:34	7440-62-2	
Zinc	**6.6J**	ug/L	10.0	0.40	1	08/20/09 11:35	08/26/09 23:34	7440-66-6	Z2
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		08/23/09 18:19	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		08/23/09 18:19	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		08/23/09 18:19	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		08/23/09 18:19	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/23/09 18:19	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		08/23/09 18:19	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		08/23/09 18:19	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		08/23/09 18:19	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		08/23/09 18:19	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/23/09 18:19	56-23-5	
Chlorobenzene	**0.58J**	ug/L	3.0	0.23	1		08/23/09 18:19	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		08/23/09 18:19	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		08/23/09 18:19	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/23/09 18:19	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		08/23/09 18:19	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		08/23/09 18:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/23/09 18:19	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		08/23/09 18:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		08/23/09 18:19	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/23/09 18:19	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		08/23/09 18:19	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		08/23/09 18:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/23/09 18:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		08/23/09 18:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		08/23/09 18:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		08/23/09 18:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/23/09 18:19	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/23/09 18:19	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/23/09 18:19	10061-01-5	

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ANALYTICAL RESULTS

Project: CHEROKEE CLOSED MSWLF
Pace Project No.: 9251280

Sample: MW-3 **Lab ID: 9251280004** Collected: 08/18/09 16:40 Received: 08/19/09 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/23/09 18:19	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/23/09 18:19	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		08/23/09 18:19	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		08/23/09 18:19	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		08/23/09 18:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		08/23/09 18:19	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		08/23/09 18:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		08/23/09 18:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		08/23/09 18:19	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/23/09 18:19	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/23/09 18:19	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/23/09 18:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/23/09 18:19	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/23/09 18:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/23/09 18:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/23/09 18:19	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		08/23/09 18:19	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/23/09 18:19	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		08/23/09 18:19	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/23/09 18:19	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		08/23/09 18:19	95-47-6	
4-Bromofluorobenzene (S)	98	%	87-109		1		08/23/09 18:19	460-00-4	
Dibromofluoromethane (S)	108	%	85-115		1		08/23/09 18:19	1868-53-7	
1,2-Dichloroethane-d4 (S)	115	%	79-120		1		08/23/09 18:19	17060-07-0	
Toluene-d8 (S)	101	%	70-120		1		08/23/09 18:19	2037-26-5	

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ANALYTICAL RESULTS

Project: CHEROKEE CLOSED MSWLF
Pace Project No.: 9251280

Sample: MW-4R **Lab ID: 9251280005** Collected: 08/18/09 16:00 Received: 08/19/09 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	2.6	1	08/20/09 11:35	08/26/09 23:38	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	08/20/09 11:35	08/26/09 23:38	7440-38-2	
Barium	**103**	ug/L	100	0.20	1	08/20/09 11:35	08/26/09 23:38	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	08/20/09 11:35	08/26/09 23:38	7440-41-7	
Cadmium	**0.62J**	ug/L	1.0	0.50	1	08/20/09 11:35	08/26/09 23:38	7440-43-9	
Chromium	ND	ug/L	10.0	0.40	1	08/20/09 11:35	08/26/09 23:38	7440-47-3	
Cobalt	**24.1**	ug/L	10.0	0.60	1	08/20/09 11:35	08/26/09 23:38	7440-48-4	
Copper	ND	ug/L	10.0	0.30	1	08/20/09 11:35	08/26/09 23:38	7440-50-8	
Lead	ND	ug/L	10.0	4.0	1	08/20/09 11:35	08/26/09 23:38	7439-92-1	
Nickel	ND	ug/L	50.0	1.7	1	08/20/09 11:35	08/26/09 23:38	7440-02-0	
Selenium	**4.1J**	ug/L	10.0	3.8	1	08/20/09 11:35	08/26/09 23:38	7782-49-2	
Silver	**0.78J**	ug/L	10.0	0.10	1	08/20/09 11:35	08/26/09 23:38	7440-22-4	Z2
Thallium	ND	ug/L	5.5	3.0	1	08/20/09 11:35	08/26/09 23:38	7440-28-0	
Vanadium	ND	ug/L	25.0	0.20	1	08/20/09 11:35	08/26/09 23:38	7440-62-2	
Zinc	**27.5**	ug/L	10.0	0.40	1	08/20/09 11:35	08/26/09 23:38	7440-66-6	Z2
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		08/23/09 18:38	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		08/23/09 18:38	107-13-1	
Benzene	**1.3**	ug/L	1.0	0.25	1		08/23/09 18:38	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		08/23/09 18:38	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/23/09 18:38	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		08/23/09 18:38	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		08/23/09 18:38	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		08/23/09 18:38	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		08/23/09 18:38	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/23/09 18:38	56-23-5	
Chlorobenzene	**0.44J**	ug/L	3.0	0.23	1		08/23/09 18:38	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		08/23/09 18:38	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		08/23/09 18:38	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/23/09 18:38	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		08/23/09 18:38	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		08/23/09 18:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/23/09 18:38	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		08/23/09 18:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		08/23/09 18:38	95-50-1	
1,4-Dichlorobenzene	**4.6**	ug/L	1.0	0.33	1		08/23/09 18:38	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		08/23/09 18:38	110-57-6	
1,1-Dichloroethane	**0.76J**	ug/L	5.0	0.32	1		08/23/09 18:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/23/09 18:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		08/23/09 18:38	75-35-4	
cis-1,2-Dichloroethene	**7.7**	ug/L	5.0	0.19	1		08/23/09 18:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		08/23/09 18:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/23/09 18:38	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/23/09 18:38	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/23/09 18:38	10061-01-5	

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ANALYTICAL RESULTS

Project: CHEROKEE CLOSED MSWLF
Pace Project No.: 9251280

Sample: MW-4R **Lab ID: 9251280005** Collected: 08/18/09 16:00 Received: 08/19/09 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/23/09 18:38	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/23/09 18:38	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		08/23/09 18:38	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		08/23/09 18:38	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		08/23/09 18:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		08/23/09 18:38	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		08/23/09 18:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		08/23/09 18:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		08/23/09 18:38	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/23/09 18:38	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/23/09 18:38	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/23/09 18:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/23/09 18:38	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/23/09 18:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/23/09 18:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/23/09 18:38	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		08/23/09 18:38	108-05-4	
Vinyl chloride	**1.8**	ug/L	1.0	0.62	1		08/23/09 18:38	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		08/23/09 18:38	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/23/09 18:38	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		08/23/09 18:38	95-47-6	
4-Bromofluorobenzene (S)	98	%	87-109		1		08/23/09 18:38	460-00-4	
Dibromofluoromethane (S)	109	%	85-115		1		08/23/09 18:38	1868-53-7	
1,2-Dichloroethane-d4 (S)	114	%	79-120		1		08/23/09 18:38	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		08/23/09 18:38	2037-26-5	

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ANALYTICAL RESULTS

Project: CHEROKEE CLOSED MSWLF
Pace Project No.: 9251280

Sample: MW-5 **Lab ID: 9251280006** Collected: 08/19/09 08:35 Received: 08/19/09 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	2.6	1	08/20/09 11:35	08/26/09 23:42	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	08/20/09 11:35	08/26/09 23:42	7440-38-2	
Barium	**47.4J**	ug/L	100	0.20	1	08/20/09 11:35	08/26/09 23:42	7440-39-3	
Beryllium	**0.57J**	ug/L	1.0	0.10	1	08/20/09 11:35	08/26/09 23:42	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	08/20/09 11:35	08/26/09 23:42	7440-43-9	
Chromium	**3.9J**	ug/L	10.0	0.40	1	08/20/09 11:35	08/26/09 23:42	7440-47-3	
Cobalt	**5.6J**	ug/L	10.0	0.60	1	08/20/09 11:35	08/26/09 23:42	7440-48-4	
Copper	**0.92J**	ug/L	10.0	0.30	1	08/20/09 11:35	08/26/09 23:42	7440-50-8	
Lead	ND	ug/L	10.0	4.0	1	08/20/09 11:35	08/26/09 23:42	7439-92-1	
Nickel	**9.8J**	ug/L	50.0	1.7	1	08/20/09 11:35	08/26/09 23:42	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	08/20/09 11:35	08/26/09 23:42	7782-49-2	
Silver	**0.97J**	ug/L	10.0	0.10	1	08/20/09 11:35	08/26/09 23:42	7440-22-4	Z2
Thallium	ND	ug/L	5.5	3.0	1	08/20/09 11:35	08/26/09 23:42	7440-28-0	
Vanadium	**3.7J**	ug/L	25.0	0.20	1	08/20/09 11:35	08/26/09 23:42	7440-62-2	
Zinc	**18.4**	ug/L	10.0	0.40	1	08/20/09 11:35	08/26/09 23:42	7440-66-6	Z2
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		08/23/09 18:58	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		08/23/09 18:58	107-13-1	
Benzene	**0.89J**	ug/L	1.0	0.25	1		08/23/09 18:58	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		08/23/09 18:58	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/23/09 18:58	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		08/23/09 18:58	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		08/23/09 18:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		08/23/09 18:58	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		08/23/09 18:58	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/23/09 18:58	56-23-5	
Chlorobenzene	**9.7**	ug/L	3.0	0.23	1		08/23/09 18:58	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		08/23/09 18:58	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		08/23/09 18:58	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/23/09 18:58	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		08/23/09 18:58	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		08/23/09 18:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/23/09 18:58	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		08/23/09 18:58	74-95-3	
1,2-Dichlorobenzene	**0.73J**	ug/L	5.0	0.30	1		08/23/09 18:58	95-50-1	
1,4-Dichlorobenzene	**12.3**	ug/L	1.0	0.33	1		08/23/09 18:58	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		08/23/09 18:58	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		08/23/09 18:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/23/09 18:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		08/23/09 18:58	75-35-4	
cis-1,2-Dichloroethene	**4.4J**	ug/L	5.0	0.19	1		08/23/09 18:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		08/23/09 18:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/23/09 18:58	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/23/09 18:58	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/23/09 18:58	10061-01-5	

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ANALYTICAL RESULTS

Project: CHEROKEE CLOSED MSWLF
Pace Project No.: 9251280

Sample: MW-5 **Lab ID: 9251280006** Collected: 08/19/09 08:35 Received: 08/19/09 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/23/09 18:58	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/23/09 18:58	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		08/23/09 18:58	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		08/23/09 18:58	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		08/23/09 18:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		08/23/09 18:58	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		08/23/09 18:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		08/23/09 18:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		08/23/09 18:58	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/23/09 18:58	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/23/09 18:58	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/23/09 18:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/23/09 18:58	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/23/09 18:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/23/09 18:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/23/09 18:58	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		08/23/09 18:58	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/23/09 18:58	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		08/23/09 18:58	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/23/09 18:58	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		08/23/09 18:58	95-47-6	
4-Bromofluorobenzene (S)	96	%	87-109		1		08/23/09 18:58	460-00-4	
Dibromofluoromethane (S)	110	%	85-115		1		08/23/09 18:58	1868-53-7	
1,2-Dichloroethane-d4 (S)	114	%	79-120		1		08/23/09 18:58	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		08/23/09 18:58	2037-26-5	

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ANALYTICAL RESULTS

Project: CHEROKEE CLOSED MSWLF
Pace Project No.: 9251280

Sample: MW-6 **Lab ID: 9251280007** Collected: 08/19/09 08:00 Received: 08/19/09 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	2.6	1	08/21/09 16:10	08/28/09 03:02	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	08/21/09 16:10	08/28/09 03:02	7440-38-2	
Barium	**50.9J**	ug/L	100	0.20	1	08/21/09 16:10	08/28/09 03:02	7440-39-3	
Beryllium	**0.39J**	ug/L	1.0	0.10	1	08/21/09 16:10	08/28/09 03:02	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	08/21/09 16:10	08/28/09 03:02	7440-43-9	
Chromium	**3.1J**	ug/L	10.0	0.40	1	08/21/09 16:10	08/28/09 03:02	7440-47-3	Z2
Cobalt	**24.9**	ug/L	10.0	0.60	1	08/21/09 16:10	08/28/09 03:02	7440-48-4	
Copper	**5.3J**	ug/L	10.0	0.30	1	08/21/09 16:10	08/28/09 03:02	7440-50-8	
Lead	ND	ug/L	10.0	4.0	1	08/21/09 16:10	08/28/09 03:02	7439-92-1	
Nickel	**4.7J**	ug/L	50.0	1.7	1	08/21/09 16:10	08/28/09 03:02	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	08/21/09 16:10	08/28/09 03:02	7782-49-2	
Silver	**0.34J**	ug/L	10.0	0.10	1	08/21/09 16:10	08/28/09 03:02	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	08/21/09 16:10	08/28/09 03:02	7440-28-0	
Vanadium	**3.8J**	ug/L	25.0	0.20	1	08/21/09 16:10	08/28/09 03:02	7440-62-2	
Zinc	**29.0**	ug/L	10.0	0.40	1	08/21/09 16:10	08/28/09 03:02	7440-66-6	Z2
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		08/23/09 19:17	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		08/23/09 19:17	107-13-1	
Benzene	**1.8**	ug/L	1.0	0.25	1		08/23/09 19:17	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		08/23/09 19:17	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/23/09 19:17	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		08/23/09 19:17	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		08/23/09 19:17	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		08/23/09 19:17	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		08/23/09 19:17	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/23/09 19:17	56-23-5	
Chlorobenzene	**7.8**	ug/L	3.0	0.23	1		08/23/09 19:17	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		08/23/09 19:17	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		08/23/09 19:17	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/23/09 19:17	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		08/23/09 19:17	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		08/23/09 19:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/23/09 19:17	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		08/23/09 19:17	74-95-3	
1,2-Dichlorobenzene	**0.42J**	ug/L	5.0	0.30	1		08/23/09 19:17	95-50-1	
1,4-Dichlorobenzene	**14.3**	ug/L	1.0	0.33	1		08/23/09 19:17	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		08/23/09 19:17	110-57-6	
1,1-Dichloroethane	**0.41J**	ug/L	5.0	0.32	1		08/23/09 19:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/23/09 19:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		08/23/09 19:17	75-35-4	
cis-1,2-Dichloroethene	**4.0J**	ug/L	5.0	0.19	1		08/23/09 19:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		08/23/09 19:17	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/23/09 19:17	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/23/09 19:17	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/23/09 19:17	10061-01-5	

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ANALYTICAL RESULTS

Project: CHEROKEE CLOSED MSWLF
Pace Project No.: 9251280

Sample: MW-6 **Lab ID: 9251280007** Collected: 08/19/09 08:00 Received: 08/19/09 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/23/09 19:17	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/23/09 19:17	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		08/23/09 19:17	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		08/23/09 19:17	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		08/23/09 19:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		08/23/09 19:17	108-10-1	
Naphthalene	**10**	ug/L	1.0	0.24	1		08/23/09 19:17	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		08/23/09 19:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		08/23/09 19:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		08/23/09 19:17	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/23/09 19:17	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/23/09 19:17	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/23/09 19:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/23/09 19:17	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/23/09 19:17	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/23/09 19:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/23/09 19:17	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		08/23/09 19:17	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/23/09 19:17	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		08/23/09 19:17	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/23/09 19:17	1330-20-7	
o-Xylene	**0.45J**	ug/L	1.0	0.23	1		08/23/09 19:17	95-47-6	
4-Bromofluorobenzene (S)	99	%	87-109		1		08/23/09 19:17	460-00-4	
Dibromofluoromethane (S)	111	%	85-115		1		08/23/09 19:17	1868-53-7	
1,2-Dichloroethane-d4 (S)	115	%	79-120		1		08/23/09 19:17	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		08/23/09 19:17	2037-26-5	

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ANALYTICAL RESULTS

Project: CHEROKEE CLOSED MSWLF
Pace Project No.: 9251280

Sample: MW-6R **Lab ID: 9251280008** Collected: 08/18/09 17:25 Received: 08/19/09 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	2.6	1	08/21/09 16:10	08/28/09 03:11	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	08/21/09 16:10	08/28/09 03:11	7440-38-2	
Barium	**11.0J**	ug/L	100	0.20	1	08/21/09 16:10	08/28/09 03:11	7440-39-3	
Beryllium	**0.44J**	ug/L	1.0	0.10	1	08/21/09 16:10	08/28/09 03:11	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	08/21/09 16:10	08/28/09 03:11	7440-43-9	
Chromium	**0.53J**	ug/L	10.0	0.40	1	08/21/09 16:10	08/28/09 03:11	7440-47-3	Z2
Cobalt	ND	ug/L	10.0	0.60	1	08/21/09 16:10	08/28/09 03:11	7440-48-4	
Copper	**2.3J**	ug/L	10.0	0.30	1	08/21/09 16:10	08/28/09 03:11	7440-50-8	
Lead	ND	ug/L	10.0	4.0	1	08/21/09 16:10	08/28/09 03:11	7439-92-1	
Nickel	ND	ug/L	50.0	1.7	1	08/21/09 16:10	08/28/09 03:11	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	08/21/09 16:10	08/28/09 03:11	7782-49-2	
Silver	ND	ug/L	10.0	0.10	1	08/21/09 16:10	08/28/09 03:11	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	08/21/09 16:10	08/28/09 03:11	7440-28-0	
Vanadium	**0.55J**	ug/L	25.0	0.20	1	08/21/09 16:10	08/28/09 03:11	7440-62-2	
Zinc	**7.6J**	ug/L	10.0	0.40	1	08/21/09 16:10	08/28/09 03:11	7440-66-6	Z2
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		08/23/09 19:36	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		08/23/09 19:36	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		08/23/09 19:36	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		08/23/09 19:36	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/23/09 19:36	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		08/23/09 19:36	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		08/23/09 19:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		08/23/09 19:36	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		08/23/09 19:36	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/23/09 19:36	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		08/23/09 19:36	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		08/23/09 19:36	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		08/23/09 19:36	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/23/09 19:36	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		08/23/09 19:36	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		08/23/09 19:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/23/09 19:36	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		08/23/09 19:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		08/23/09 19:36	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/23/09 19:36	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		08/23/09 19:36	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		08/23/09 19:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/23/09 19:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		08/23/09 19:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		08/23/09 19:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		08/23/09 19:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/23/09 19:36	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/23/09 19:36	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/23/09 19:36	10061-01-5	

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ANALYTICAL RESULTS

Project: CHEROKEE CLOSED MSWLF
Pace Project No.: 9251280

Sample: MW-6R **Lab ID: 9251280008** Collected: 08/18/09 17:25 Received: 08/19/09 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/23/09 19:36	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/23/09 19:36	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		08/23/09 19:36	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		08/23/09 19:36	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		08/23/09 19:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		08/23/09 19:36	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		08/23/09 19:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		08/23/09 19:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		08/23/09 19:36	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/23/09 19:36	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/23/09 19:36	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/23/09 19:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/23/09 19:36	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/23/09 19:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/23/09 19:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/23/09 19:36	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		08/23/09 19:36	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/23/09 19:36	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		08/23/09 19:36	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/23/09 19:36	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		08/23/09 19:36	95-47-6	
4-Bromofluorobenzene (S)	98	%	87-109		1		08/23/09 19:36	460-00-4	
Dibromofluoromethane (S)	110	%	85-115		1		08/23/09 19:36	1868-53-7	
1,2-Dichloroethane-d4 (S)	113	%	79-120		1		08/23/09 19:36	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		08/23/09 19:36	2037-26-5	

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ANALYTICAL RESULTS

Project: CHEROKEE CLOSED MSWLF
Pace Project No.: 9251280

Sample: MW-7 **Lab ID: 9251280009** Collected: 08/19/09 09:40 Received: 08/19/09 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	2.6	1	08/21/09 16:10	08/28/09 03:14	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	08/21/09 16:10	08/28/09 03:14	7440-38-2	
Barium	**40.8J**	ug/L	100	0.20	1	08/21/09 16:10	08/28/09 03:14	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	08/21/09 16:10	08/28/09 03:14	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	08/21/09 16:10	08/28/09 03:14	7440-43-9	
Chromium	ND	ug/L	10.0	0.40	1	08/21/09 16:10	08/28/09 03:14	7440-47-3	
Cobalt	ND	ug/L	10.0	0.60	1	08/21/09 16:10	08/28/09 03:14	7440-48-4	
Copper	**1.4J**	ug/L	10.0	0.30	1	08/21/09 16:10	08/28/09 03:14	7440-50-8	
Lead	ND	ug/L	10.0	4.0	1	08/21/09 16:10	08/28/09 03:14	7439-92-1	
Nickel	ND	ug/L	50.0	1.7	1	08/21/09 16:10	08/28/09 03:14	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	08/21/09 16:10	08/28/09 03:14	7782-49-2	
Silver	**0.51J**	ug/L	10.0	0.10	1	08/21/09 16:10	08/28/09 03:14	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	08/21/09 16:10	08/28/09 03:14	7440-28-0	
Vanadium	**0.34J**	ug/L	25.0	0.20	1	08/21/09 16:10	08/28/09 03:14	7440-62-2	
Zinc	**4.5J**	ug/L	10.0	0.40	1	08/21/09 16:10	08/28/09 03:14	7440-66-6	Z2
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		08/23/09 19:56	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		08/23/09 19:56	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		08/23/09 19:56	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		08/23/09 19:56	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/23/09 19:56	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		08/23/09 19:56	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		08/23/09 19:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		08/23/09 19:56	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		08/23/09 19:56	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/23/09 19:56	56-23-5	
Chlorobenzene	**1.0J**	ug/L	3.0	0.23	1		08/23/09 19:56	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		08/23/09 19:56	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		08/23/09 19:56	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/23/09 19:56	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		08/23/09 19:56	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		08/23/09 19:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/23/09 19:56	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		08/23/09 19:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		08/23/09 19:56	95-50-1	
1,4-Dichlorobenzene	**0.91J**	ug/L	1.0	0.33	1		08/23/09 19:56	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		08/23/09 19:56	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		08/23/09 19:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/23/09 19:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		08/23/09 19:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		08/23/09 19:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		08/23/09 19:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/23/09 19:56	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/23/09 19:56	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/23/09 19:56	10061-01-5	

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ANALYTICAL RESULTS

Project: CHEROKEE CLOSED MSWLF
Pace Project No.: 9251280

Sample: MW-7 **Lab ID: 9251280009** Collected: 08/19/09 09:40 Received: 08/19/09 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/23/09 19:56	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/23/09 19:56	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		08/23/09 19:56	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		08/23/09 19:56	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		08/23/09 19:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		08/23/09 19:56	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		08/23/09 19:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		08/23/09 19:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		08/23/09 19:56	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/23/09 19:56	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/23/09 19:56	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/23/09 19:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/23/09 19:56	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/23/09 19:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/23/09 19:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/23/09 19:56	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		08/23/09 19:56	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/23/09 19:56	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		08/23/09 19:56	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/23/09 19:56	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		08/23/09 19:56	95-47-6	
4-Bromofluorobenzene (S)	97	%	87-109		1		08/23/09 19:56	460-00-4	
Dibromofluoromethane (S)	109	%	85-115		1		08/23/09 19:56	1868-53-7	
1,2-Dichloroethane-d4 (S)	115	%	79-120		1		08/23/09 19:56	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		08/23/09 19:56	2037-26-5	

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ANALYTICAL RESULTS

Project: CHEROKEE CLOSED MSWLF
Pace Project No.: 9251280

Sample: PENDERGRASS **Lab ID: 9251280010** Collected: 08/17/09 17:00 Received: 08/19/09 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	2.6	1	08/21/09 16:10	08/28/09 03:19	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	08/21/09 16:10	08/28/09 03:19	7440-38-2	
Barium	**6.7J**	ug/L	100	0.20	1	08/21/09 16:10	08/28/09 03:19	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	08/21/09 16:10	08/28/09 03:19	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	08/21/09 16:10	08/28/09 03:19	7440-43-9	
Chromium	**0.70J**	ug/L	10.0	0.40	1	08/21/09 16:10	08/28/09 03:19	7440-47-3	Z2
Cobalt	ND	ug/L	10.0	0.60	1	08/21/09 16:10	08/28/09 03:19	7440-48-4	
Copper	**26.9**	ug/L	10.0	0.30	1	08/21/09 16:10	08/28/09 03:19	7440-50-8	
Lead	ND	ug/L	10.0	4.0	1	08/21/09 16:10	08/28/09 03:19	7439-92-1	
Nickel	ND	ug/L	50.0	1.7	1	08/21/09 16:10	08/28/09 03:19	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	08/21/09 16:10	08/28/09 03:19	7782-49-2	
Silver	ND	ug/L	10.0	0.10	1	08/21/09 16:10	08/28/09 03:19	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	08/21/09 16:10	08/28/09 03:19	7440-28-0	
Vanadium	ND	ug/L	25.0	0.20	1	08/21/09 16:10	08/28/09 03:19	7440-62-2	
Zinc	**19.3**	ug/L	10.0	0.40	1	08/21/09 16:10	08/28/09 03:19	7440-66-6	Z2
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		08/23/09 05:25	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		08/23/09 05:25	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		08/23/09 05:25	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		08/23/09 05:25	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/23/09 05:25	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		08/23/09 05:25	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		08/23/09 05:25	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		08/23/09 05:25	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		08/23/09 05:25	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/23/09 05:25	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		08/23/09 05:25	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		08/23/09 05:25	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		08/23/09 05:25	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/23/09 05:25	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		08/23/09 05:25	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		08/23/09 05:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/23/09 05:25	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		08/23/09 05:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		08/23/09 05:25	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/23/09 05:25	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		08/23/09 05:25	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		08/23/09 05:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/23/09 05:25	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		08/23/09 05:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		08/23/09 05:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		08/23/09 05:25	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/23/09 05:25	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/23/09 05:25	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/23/09 05:25	10061-01-5	

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ANALYTICAL RESULTS

Project: CHEROKEE CLOSED MSWLF
Pace Project No.: 9251280

Sample: PENDERGRASS **Lab ID: 9251280010** Collected: 08/17/09 17:00 Received: 08/19/09 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/23/09 05:25	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/23/09 05:25	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		08/23/09 05:25	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		08/23/09 05:25	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		08/23/09 05:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		08/23/09 05:25	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		08/23/09 05:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		08/23/09 05:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		08/23/09 05:25	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/23/09 05:25	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/23/09 05:25	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/23/09 05:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/23/09 05:25	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/23/09 05:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/23/09 05:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/23/09 05:25	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		08/23/09 05:25	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/23/09 05:25	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		08/23/09 05:25	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/23/09 05:25	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		08/23/09 05:25	95-47-6	
4-Bromofluorobenzene (S)	98	%	87-109		1		08/23/09 05:25	460-00-4	
Dibromofluoromethane (S)	107	%	85-115		1		08/23/09 05:25	1868-53-7	
1,2-Dichloroethane-d4 (S)	116	%	79-120		1		08/23/09 05:25	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		08/23/09 05:25	2037-26-5	

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ANALYTICAL RESULTS

Project: CHEROKEE CLOSED MSWLF
Pace Project No.: 9251280

Sample: SOLESBEE **Lab ID: 9251280011** Collected: 08/17/09 17:15 Received: 08/19/09 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	2.6	1	08/21/09 16:10	08/28/09 03:22	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	08/21/09 16:10	08/28/09 03:22	7440-38-2	
Barium	**1.7J**	ug/L	100	0.20	1	08/21/09 16:10	08/28/09 03:22	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	08/21/09 16:10	08/28/09 03:22	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	08/21/09 16:10	08/28/09 03:22	7440-43-9	
Chromium	ND	ug/L	10.0	0.40	1	08/21/09 16:10	08/28/09 03:22	7440-47-3	
Cobalt	ND	ug/L	10.0	0.60	1	08/21/09 16:10	08/28/09 03:22	7440-48-4	
Copper	ND	ug/L	10.0	0.30	1	08/21/09 16:10	08/28/09 03:22	7440-50-8	
Lead	ND	ug/L	10.0	4.0	1	08/21/09 16:10	08/28/09 03:22	7439-92-1	
Nickel	ND	ug/L	50.0	1.7	1	08/21/09 16:10	08/28/09 03:22	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	08/21/09 16:10	08/28/09 03:22	7782-49-2	
Silver	ND	ug/L	10.0	0.10	1	08/21/09 16:10	08/28/09 03:22	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	08/21/09 16:10	08/28/09 03:22	7440-28-0	
Vanadium	**0.24J**	ug/L	25.0	0.20	1	08/21/09 16:10	08/28/09 03:22	7440-62-2	
Zinc	**6.4J**	ug/L	10.0	0.40	1	08/21/09 16:10	08/28/09 03:22	7440-66-6	Z2
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		08/23/09 05:44	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		08/23/09 05:44	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		08/23/09 05:44	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		08/23/09 05:44	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/23/09 05:44	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		08/23/09 05:44	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		08/23/09 05:44	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		08/23/09 05:44	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		08/23/09 05:44	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/23/09 05:44	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		08/23/09 05:44	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		08/23/09 05:44	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		08/23/09 05:44	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/23/09 05:44	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		08/23/09 05:44	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		08/23/09 05:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/23/09 05:44	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		08/23/09 05:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		08/23/09 05:44	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/23/09 05:44	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		08/23/09 05:44	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		08/23/09 05:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/23/09 05:44	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		08/23/09 05:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		08/23/09 05:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		08/23/09 05:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/23/09 05:44	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/23/09 05:44	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/23/09 05:44	10061-01-5	

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ANALYTICAL RESULTS

Project: CHEROKEE CLOSED MSWLF
Pace Project No.: 9251280

Sample: SOLESBEE **Lab ID: 9251280011** Collected: 08/17/09 17:15 Received: 08/19/09 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/23/09 05:44	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/23/09 05:44	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		08/23/09 05:44	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		08/23/09 05:44	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		08/23/09 05:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		08/23/09 05:44	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		08/23/09 05:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		08/23/09 05:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		08/23/09 05:44	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/23/09 05:44	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/23/09 05:44	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/23/09 05:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/23/09 05:44	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/23/09 05:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/23/09 05:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/23/09 05:44	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		08/23/09 05:44	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/23/09 05:44	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		08/23/09 05:44	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/23/09 05:44	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		08/23/09 05:44	95-47-6	
4-Bromofluorobenzene (S)	99	%	87-109		1		08/23/09 05:44	460-00-4	
Dibromofluoromethane (S)	106	%	85-115		1		08/23/09 05:44	1868-53-7	
1,2-Dichloroethane-d4 (S)	113	%	79-120		1		08/23/09 05:44	17060-07-0	
Toluene-d8 (S)	101	%	70-120		1		08/23/09 05:44	2037-26-5	

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ANALYTICAL RESULTS

Project: CHEROKEE CLOSED MSWLF
Pace Project No.: 9251280

Sample: VAN BUSKIRK (HANEY) **Lab ID: 9251280012** Collected: 08/17/09 17:25 Received: 08/19/09 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	2.6	1	08/21/09 16:10	08/28/09 03:26	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	08/21/09 16:10	08/28/09 03:26	7440-38-2	
Barium	**24.9J**	ug/L	100	0.20	1	08/21/09 16:10	08/28/09 03:26	7440-39-3	
Beryllium	**0.21J**	ug/L	1.0	0.10	1	08/21/09 16:10	08/28/09 03:26	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	08/21/09 16:10	08/28/09 03:26	7440-43-9	
Chromium	**1.5J**	ug/L	10.0	0.40	1	08/21/09 16:10	08/28/09 03:26	7440-47-3	Z2
Cobalt	ND	ug/L	10.0	0.60	1	08/21/09 16:10	08/28/09 03:26	7440-48-4	
Copper	**37.4**	ug/L	10.0	0.30	1	08/21/09 16:10	08/28/09 03:26	7440-50-8	
Lead	ND	ug/L	10.0	4.0	1	08/21/09 16:10	08/28/09 03:26	7439-92-1	
Nickel	ND	ug/L	50.0	1.7	1	08/21/09 16:10	08/28/09 03:26	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	08/21/09 16:10	08/28/09 03:26	7782-49-2	
Silver	ND	ug/L	10.0	0.10	1	08/21/09 16:10	08/28/09 03:26	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	08/21/09 16:10	08/28/09 03:26	7440-28-0	
Vanadium	ND	ug/L	25.0	0.20	1	08/21/09 16:10	08/28/09 03:26	7440-62-2	
Zinc	**17.9**	ug/L	10.0	0.40	1	08/21/09 16:10	08/28/09 03:26	7440-66-6	Z2
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		08/23/09 06:04	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		08/23/09 06:04	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		08/23/09 06:04	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		08/23/09 06:04	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/23/09 06:04	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		08/23/09 06:04	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		08/23/09 06:04	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		08/23/09 06:04	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		08/23/09 06:04	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/23/09 06:04	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		08/23/09 06:04	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		08/23/09 06:04	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		08/23/09 06:04	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/23/09 06:04	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		08/23/09 06:04	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		08/23/09 06:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/23/09 06:04	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		08/23/09 06:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		08/23/09 06:04	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/23/09 06:04	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		08/23/09 06:04	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		08/23/09 06:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/23/09 06:04	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		08/23/09 06:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		08/23/09 06:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		08/23/09 06:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/23/09 06:04	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/23/09 06:04	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/23/09 06:04	10061-01-5	

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ANALYTICAL RESULTS

Project: CHEROKEE CLOSED MSWLF
Pace Project No.: 9251280

Sample: VAN BUSKIRK (HANEY) **Lab ID: 9251280012** Collected: 08/17/09 17:25 Received: 08/19/09 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/23/09 06:04	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/23/09 06:04	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		08/23/09 06:04	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		08/23/09 06:04	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		08/23/09 06:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		08/23/09 06:04	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		08/23/09 06:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		08/23/09 06:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		08/23/09 06:04	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/23/09 06:04	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/23/09 06:04	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/23/09 06:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/23/09 06:04	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/23/09 06:04	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/23/09 06:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/23/09 06:04	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		08/23/09 06:04	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/23/09 06:04	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		08/23/09 06:04	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/23/09 06:04	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		08/23/09 06:04	95-47-6	
4-Bromofluorobenzene (S)	99	%	87-109		1		08/23/09 06:04	460-00-4	
Dibromofluoromethane (S)	107	%	85-115		1		08/23/09 06:04	1868-53-7	
1,2-Dichloroethane-d4 (S)	112	%	79-120		1		08/23/09 06:04	17060-07-0	
Toluene-d8 (S)	102	%	70-120		1		08/23/09 06:04	2037-26-5	

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QUALITY CONTROL DATA

Project: CHEROKEE CLOSED MSWLF
Pace Project No.: 9251280

QC Batch: MPRP/4948 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 9251280007, 9251280008, 9251280009, 9251280010, 9251280011, 9251280012

METHOD BLANK: 325736 Matrix: Water
Associated Lab Samples: 9251280007, 9251280008, 9251280009, 9251280010, 9251280011, 9251280012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	08/28/09 02:36	
Arsenic	ug/L	ND	10.0	08/28/09 02:36	
Barium	ug/L	ND	100	08/28/09 02:36	
Beryllium	ug/L	ND	1.0	08/28/09 02:36	
Cadmium	ug/L	ND	1.0	08/28/09 02:36	
Chromium	ug/L	0.59J	10.0	08/28/09 02:36	
Cobalt	ug/L	ND	10.0	08/28/09 02:36	
Copper	ug/L	ND	10.0	08/28/09 02:36	
Lead	ug/L	ND	10.0	08/28/09 02:36	
Nickel	ug/L	ND	50.0	08/28/09 02:36	
Selenium	ug/L	ND	10.0	08/28/09 02:36	
Silver	ug/L	ND	10.0	08/28/09 02:36	
Thallium	ug/L	ND	5.5	08/28/09 02:36	
Vanadium	ug/L	ND	25.0	08/28/09 02:36	
Zinc	ug/L	3.7J	10.0	08/28/09 02:36	

LABORATORY CONTROL SAMPLE: 325737

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	485	97	80-120	
Arsenic	ug/L	500	466	93	80-120	
Barium	ug/L	500	478	96	80-120	
Beryllium	ug/L	500	500	100	80-120	
Cadmium	ug/L	500	473	95	80-120	
Chromium	ug/L	500	478	96	80-120	
Cobalt	ug/L	500	473	95	80-120	
Copper	ug/L	500	473	95	80-120	
Lead	ug/L	500	472	94	80-120	
Nickel	ug/L	500	471	94	80-120	
Selenium	ug/L	500	458	92	80-120	
Silver	ug/L	250	246	98	80-120	
Thallium	ug/L	500	448	90	80-120	
Vanadium	ug/L	500	472	94	80-120	
Zinc	ug/L	500	481	96	80-120	

MATRIX SPIKE SAMPLE: 325738

Parameter	Units	9251279001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	484	97	75-125	
Arsenic	ug/L	ND	500	469	94	75-125	

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QUALITY CONTROL DATA

Project: CHEROKEE CLOSED MSWLF
Pace Project No.: 9251280

MATRIX SPIKE SAMPLE: 325738

Parameter	Units	9251279001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	21.2J	500	491	94	75-125	
Beryllium	ug/L	ND	500	501	100	75-125	
Cadmium	ug/L	ND	500	469	94	75-125	
Chromium	ug/L	9.6J	500	475	93	75-125	
Cobalt	ug/L	ND	500	467	93	75-125	
Copper	ug/L	0.83J	500	470	94	75-125	
Lead	ug/L	ND	500	468	94	75-125	
Nickel	ug/L	6.1J	500	466	92	75-125	
Selenium	ug/L	ND	500	456	91	75-125	
Silver	ug/L	ND	250	245	98	75-125	
Thallium	ug/L	4.8J	500	444	88	75-125	
Vanadium	ug/L	0.45J	500	471	94	75-125	
Zinc	ug/L	5.5J	500	484	96	75-125	

SAMPLE DUPLICATE: 325739

Parameter	Units	9251280007 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND		25	
Arsenic	ug/L	ND	ND		25	
Barium	ug/L	50.9J	50.6J	1	25	
Beryllium	ug/L	0.39J	0.35J		25	
Cadmium	ug/L	ND	ND		25	
Chromium	ug/L	3.1J	2.5J		25	
Cobalt	ug/L	24.9	25.2	1	25	
Copper	ug/L	5.3J	4.5J		25	
Lead	ug/L	ND	ND		25	
Nickel	ug/L	4.7J	4.5J		25	
Selenium	ug/L	ND	ND		25	
Silver	ug/L	0.34J	0.29J		25	
Thallium	ug/L	ND	ND		25	
Vanadium	ug/L	3.8J	3.1J		25	
Zinc	ug/L	29.0	27.3	6	25	

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QUALITY CONTROL DATA

Project: CHEROKEE CLOSED MSWLF
Pace Project No.: 9251280

QC Batch: MPRP/4936 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 9251280001, 9251280002, 9251280003, 9251280004, 9251280005, 9251280006

METHOD BLANK: 324781 Matrix: Water
Associated Lab Samples: 9251280001, 9251280002, 9251280003, 9251280004, 9251280005, 9251280006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	08/26/09 21:56	
Arsenic	ug/L	ND	10.0	08/26/09 21:56	
Barium	ug/L	ND	100	08/26/09 21:56	
Beryllium	ug/L	ND	1.0	08/26/09 21:56	
Cadmium	ug/L	ND	1.0	08/26/09 21:56	
Chromium	ug/L	ND	10.0	08/26/09 21:56	
Cobalt	ug/L	ND	10.0	08/26/09 21:56	
Copper	ug/L	ND	10.0	08/26/09 21:56	
Lead	ug/L	ND	10.0	08/26/09 21:56	
Nickel	ug/L	ND	50.0	08/26/09 21:56	
Selenium	ug/L	ND	10.0	08/26/09 21:56	
Silver	ug/L	0.15J	10.0	08/26/09 21:56	
Thallium	ug/L	ND	5.5	08/26/09 21:56	
Vanadium	ug/L	ND	25.0	08/26/09 21:56	
Zinc	ug/L	6.1J	10.0	08/26/09 21:56	

LABORATORY CONTROL SAMPLE: 324782

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	504	101	80-120	
Arsenic	ug/L	500	476	95	80-120	
Barium	ug/L	500	499	100	80-120	
Beryllium	ug/L	500	494	99	80-120	
Cadmium	ug/L	500	464	93	80-120	
Chromium	ug/L	500	471	94	80-120	
Cobalt	ug/L	500	476	95	80-120	
Copper	ug/L	500	490	98	80-120	
Lead	ug/L	500	477	95	80-120	
Nickel	ug/L	500	476	95	80-120	
Selenium	ug/L	500	463	93	80-120	
Silver	ug/L	250	250	100	80-120	
Thallium	ug/L	500	453	91	80-120	
Vanadium	ug/L	500	488	98	80-120	
Zinc	ug/L	500	489	98	80-120	

MATRIX SPIKE SAMPLE: 324783

Parameter	Units	9250878001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	513	103	75-125	
Arsenic	ug/L	ND	500	485	97	75-125	

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QUALITY CONTROL DATA

Project: CHEROKEE CLOSED MSWLF
Pace Project No.: 9251280

MATRIX SPIKE SAMPLE: 324783

Parameter	Units	9250878001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	21.5J	500	523	100	75-125	
Beryllium	ug/L	ND	500	499	100	75-125	
Cadmium	ug/L	ND	500	466	93	75-125	
Chromium	ug/L	ND	500	475	95	75-125	
Cobalt	ug/L	ND	500	477	95	75-125	
Copper	ug/L	0.54J	500	498	99	75-125	
Lead	ug/L	ND	500	475	95	75-125	
Nickel	ug/L	ND	500	476	95	75-125	
Selenium	ug/L	ND	500	474	95	75-125	
Silver	ug/L	0.21J	250	253	101	75-125	
Thallium	ug/L	6.0	500	459	91	75-125	
Vanadium	ug/L	0.30J	500	495	99	75-125	
Zinc	ug/L	9.1J	500	496	97	75-125	

SAMPLE DUPLICATE: 324784

Parameter	Units	9250994001 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	183	182	1	25	
Arsenic	ug/L	ND	ND		25	
Barium	ug/L	32.0	32.4J	1	25	
Beryllium	ug/L	ND	0.12J		25	
Cadmium	ug/L	ND	0.59J		25	
Chromium	ug/L	44.7	41.0	9	25	
Cobalt	ug/L	ND	3.2J		25	
Copper	ug/L	187	170	10	25	
Lead	ug/L	25.6	23.5	9	25	
Nickel	ug/L	61.1	58.2	5	25	
Selenium	ug/L	ND	ND		25	
Silver	ug/L	ND	0.57J		25	
Thallium	ug/L	ND	ND		25	
Vanadium	ug/L	ND	1.8J		25	
Zinc	ug/L	727	726	0	25	

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QUALITY CONTROL DATA

Project: CHEROKEE CLOSED MSWLF
Pace Project No.: 9251280

QC Batch: MSV/8042 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 9251280010, 9251280011, 9251280012

METHOD BLANK: 326197 Matrix: Water
Associated Lab Samples: 9251280010, 9251280011, 9251280012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	08/22/09 22:20	
1,1,1-Trichloroethane	ug/L	ND	1.0	08/22/09 22:20	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	08/22/09 22:20	
1,1,2-Trichloroethane	ug/L	ND	1.0	08/22/09 22:20	
1,1-Dichloroethane	ug/L	ND	5.0	08/22/09 22:20	
1,1-Dichloroethene	ug/L	ND	5.0	08/22/09 22:20	
1,2,3-Trichloropropane	ug/L	ND	1.0	08/22/09 22:20	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	08/22/09 22:20	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	08/22/09 22:20	
1,2-Dichlorobenzene	ug/L	ND	5.0	08/22/09 22:20	
1,2-Dichloroethane	ug/L	ND	1.0	08/22/09 22:20	
1,2-Dichloropropane	ug/L	ND	1.0	08/22/09 22:20	
1,3-Dichloropropane	ug/L	ND	1.0	08/22/09 22:20	
1,4-Dichlorobenzene	ug/L	ND	1.0	08/22/09 22:20	
2-Butanone (MEK)	ug/L	ND	100	08/22/09 22:20	
2-Hexanone	ug/L	ND	50.0	08/22/09 22:20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	08/22/09 22:20	
Acetone	ug/L	ND	100	08/22/09 22:20	
Acrylonitrile	ug/L	ND	200	08/22/09 22:20	
Benzene	ug/L	ND	1.0	08/22/09 22:20	
Bromochloromethane	ug/L	ND	3.0	08/22/09 22:20	
Bromodichloromethane	ug/L	ND	1.0	08/22/09 22:20	
Bromoform	ug/L	ND	3.0	08/22/09 22:20	
Bromomethane	ug/L	ND	10.0	08/22/09 22:20	
Carbon disulfide	ug/L	ND	100	08/22/09 22:20	
Carbon tetrachloride	ug/L	ND	1.0	08/22/09 22:20	
Chlorobenzene	ug/L	ND	3.0	08/22/09 22:20	
Chloroethane	ug/L	ND	10.0	08/22/09 22:20	
Chloroform	ug/L	ND	5.0	08/22/09 22:20	
Chloromethane	ug/L	ND	1.0	08/22/09 22:20	
cis-1,2-Dichloroethene	ug/L	ND	5.0	08/22/09 22:20	
cis-1,3-Dichloropropene	ug/L	ND	1.0	08/22/09 22:20	
Dibromochloromethane	ug/L	ND	3.0	08/22/09 22:20	
Dibromomethane	ug/L	ND	10.0	08/22/09 22:20	
Ethylbenzene	ug/L	ND	1.0	08/22/09 22:20	
Iodomethane	ug/L	ND	10.0	08/22/09 22:20	
m&p-Xylene	ug/L	ND	2.0	08/22/09 22:20	
Methylene Chloride	ug/L	ND	2.0	08/22/09 22:20	
o-Xylene	ug/L	ND	1.0	08/22/09 22:20	
Styrene	ug/L	ND	1.0	08/22/09 22:20	
Tetrachloroethene	ug/L	ND	1.0	08/22/09 22:20	
Toluene	ug/L	ND	1.0	08/22/09 22:20	
trans-1,2-Dichloroethene	ug/L	ND	5.0	08/22/09 22:20	

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QUALITY CONTROL DATA

Project: CHEROKEE CLOSED MSWLF
Pace Project No.: 9251280

METHOD BLANK: 326197 Matrix: Water

Associated Lab Samples: 9251280010, 9251280011, 9251280012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,3-Dichloropropene	ug/L	ND	1.0	08/22/09 22:20	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	08/22/09 22:20	
Trichloroethene	ug/L	ND	1.0	08/22/09 22:20	
Trichlorofluoromethane	ug/L	ND	1.0	08/22/09 22:20	
Vinyl acetate	ug/L	ND	50.0	08/22/09 22:20	
Vinyl chloride	ug/L	ND	1.0	08/22/09 22:20	
Xylene (Total)	ug/L	ND	5.0	08/22/09 22:20	
1,2-Dichloroethane-d4 (S)	%	108	79-120	08/22/09 22:20	
4-Bromofluorobenzene (S)	%	100	87-109	08/22/09 22:20	
Dibromofluoromethane (S)	%	100	85-115	08/22/09 22:20	
Toluene-d8 (S)	%	98	70-120	08/22/09 22:20	

LABORATORY CONTROL SAMPLE: 326198

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	57.6	115	83-125	
1,1,1-Trichloroethane	ug/L	50	56.3	113	80-129	
1,1,2,2-Tetrachloroethane	ug/L	50	53.3	107	73-127	
1,1,2-Trichloroethane	ug/L	50	53.9	108	77-123	
1,1-Dichloroethane	ug/L	50	52.9	106	76-129	
1,1-Dichloroethene	ug/L	50	56.7	113	78-146	
1,2,3-Trichloropropane	ug/L	50	58.5	117	72-125	
1,2-Dibromo-3-chloropropane	ug/L	50	56.3	113	65-128	
1,2-Dibromoethane (EDB)	ug/L	50	55.6	111	81-125	
1,2-Dichlorobenzene	ug/L	50	51.4	103	82-126	
1,2-Dichloroethane	ug/L	50	59.6	119	72-126	
1,2-Dichloropropane	ug/L	50	53.8	108	80-127	
1,3-Dichloropropane	ug/L	50	54.1	108	79-124	
1,4-Dichlorobenzene	ug/L	50	51.6	103	79-125	
2-Butanone (MEK)	ug/L	100	116	116	50-134	
2-Hexanone	ug/L	100	115	115	58-138	
4-Methyl-2-pentanone (MIBK)	ug/L	100	114	114	70-131	
Acetone	ug/L	100	141	141	50-146	
Acrylonitrile	ug/L	250	316	126	66-124	L3
Benzene	ug/L	50	49.8	100	78-128	
Bromochloromethane	ug/L	50	49.6	99	73-124	
Bromodichloromethane	ug/L	50	54.3	109	81-125	
Bromoform	ug/L	50	49.2	98	71-125	
Bromomethane	ug/L	50	62.7	125	50-150	
Carbon disulfide	ug/L	50	54.9J	110	54-150	
Carbon tetrachloride	ug/L	50	64.0	128	81-137	
Chlorobenzene	ug/L	50	51.9	104	82-126	
Chloroethane	ug/L	50	46.0	92	69-140	
Chloroform	ug/L	50	53.3	107	77-129	
Chloromethane	ug/L	50	40.4	81	54-139	

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QUALITY CONTROL DATA

Project: CHEROKEE CLOSED MSWLF
Pace Project No.: 9251280

LABORATORY CONTROL SAMPLE: 326198

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	54.1	108	76-133	
cis-1,3-Dichloropropene	ug/L	50	55.0	110	76-127	
Dibromochloromethane	ug/L	50	56.0	112	77-125	
Dibromomethane	ug/L	50	53.2	106	77-125	
Ethylbenzene	ug/L	50	53.9	108	80-127	
Iodomethane	ug/L	100	87.4	87	65-172	
m&p-Xylene	ug/L	100	113	113	82-127	
Methylene Chloride	ug/L	50	53.0	106	67-133	
o-Xylene	ug/L	50	57.2	114	83-124	
Styrene	ug/L	50	50.0	100	80-130	
Tetrachloroethene	ug/L	50	50.1	100	78-128	
Toluene	ug/L	50	51.0	102	76-126	
trans-1,2-Dichloroethene	ug/L	50	50.6	101	78-134	
trans-1,3-Dichloropropene	ug/L	50	51.1	102	75-125	
trans-1,4-Dichloro-2-butene	ug/L	50	52.4J	105	51-140	
Trichloroethene	ug/L	50	55.0	110	79-127	
Trichlorofluoromethane	ug/L	50	54.9	110	76-148	
Vinyl acetate	ug/L	100	68.5	68	50-150	
Vinyl chloride	ug/L	50	57.1	114	67-143	
Xylene (Total)	ug/L	150	170	114	83-125	
1,2-Dichloroethane-d4 (S)	%			109	79-120	
4-Bromofluorobenzene (S)	%			102	87-109	
Dibromofluoromethane (S)	%			102	85-115	
Toluene-d8 (S)	%			98	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 326199 326200

Parameter	Units	9251278003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	72.0	71.1	144	142	60-150	1	30	
Benzene	ug/L	ND	50	50	59.6	58.4	119	117	74-136	2	30	
Chlorobenzene	ug/L	ND	50	50	62.3	61.6	125	123	79-135	1	30	
Toluene	ug/L	ND	50	50	61.1	59.7	122	119	73-131	2	30	
Trichloroethene	ug/L	ND	50	50	62.7	61.2	125	122	73-131	2	30	
1,2-Dichloroethane-d4 (S)	%						110	110	79-120			
4-Bromofluorobenzene (S)	%						99	98	87-109			
Dibromofluoromethane (S)	%						106	105	85-115			
Toluene-d8 (S)	%						99	97	70-120			

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QUALITY CONTROL DATA

Project: CHEROKEE CLOSED MSWLF
Pace Project No.: 9251280

QC Batch: MSV/8046 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 9251280001, 9251280002, 9251280003, 9251280004, 9251280005, 9251280006, 9251280007, 9251280008, 9251280009

METHOD BLANK: 326229 Matrix: Water
Associated Lab Samples: 9251280001, 9251280002, 9251280003, 9251280004, 9251280005, 9251280006, 9251280007, 9251280008, 9251280009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	08/23/09 10:36	
1,1,1-Trichloroethane	ug/L	ND	1.0	08/23/09 10:36	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	08/23/09 10:36	
1,1,2-Trichloroethane	ug/L	ND	1.0	08/23/09 10:36	
1,1-Dichloroethane	ug/L	ND	5.0	08/23/09 10:36	
1,1-Dichloroethene	ug/L	ND	5.0	08/23/09 10:36	
1,2,3-Trichloropropane	ug/L	ND	1.0	08/23/09 10:36	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	08/23/09 10:36	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	08/23/09 10:36	
1,2-Dichlorobenzene	ug/L	ND	5.0	08/23/09 10:36	
1,2-Dichloroethane	ug/L	ND	1.0	08/23/09 10:36	
1,2-Dichloropropane	ug/L	ND	1.0	08/23/09 10:36	
1,3-Dichloropropane	ug/L	ND	1.0	08/23/09 10:36	
1,4-Dichlorobenzene	ug/L	ND	1.0	08/23/09 10:36	
2-Butanone (MEK)	ug/L	ND	100	08/23/09 10:36	
2-Hexanone	ug/L	ND	50.0	08/23/09 10:36	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	08/23/09 10:36	
Acetone	ug/L	ND	100	08/23/09 10:36	
Acrylonitrile	ug/L	ND	200	08/23/09 10:36	
Benzene	ug/L	ND	1.0	08/23/09 10:36	
Bromochloromethane	ug/L	ND	3.0	08/23/09 10:36	
Bromodichloromethane	ug/L	ND	1.0	08/23/09 10:36	
Bromoform	ug/L	ND	3.0	08/23/09 10:36	
Bromomethane	ug/L	ND	10.0	08/23/09 10:36	
Carbon disulfide	ug/L	ND	100	08/23/09 10:36	
Carbon tetrachloride	ug/L	ND	1.0	08/23/09 10:36	
Chlorobenzene	ug/L	ND	3.0	08/23/09 10:36	
Chloroethane	ug/L	ND	10.0	08/23/09 10:36	
Chloroform	ug/L	ND	5.0	08/23/09 10:36	
Chloromethane	ug/L	ND	1.0	08/23/09 10:36	
cis-1,2-Dichloroethene	ug/L	ND	5.0	08/23/09 10:36	
cis-1,3-Dichloropropene	ug/L	ND	1.0	08/23/09 10:36	
Dibromochloromethane	ug/L	ND	3.0	08/23/09 10:36	
Dibromomethane	ug/L	ND	10.0	08/23/09 10:36	
Ethylbenzene	ug/L	ND	1.0	08/23/09 10:36	
Iodomethane	ug/L	ND	10.0	08/23/09 10:36	
m&p-Xylene	ug/L	ND	2.0	08/23/09 10:36	
Methylene Chloride	ug/L	ND	2.0	08/23/09 10:36	
Naphthalene	ug/L	ND	1.0	08/23/09 10:36	
o-Xylene	ug/L	ND	1.0	08/23/09 10:36	
Styrene	ug/L	ND	1.0	08/23/09 10:36	

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QUALITY CONTROL DATA

Project: CHEROKEE CLOSED MSWLF
Pace Project No.: 9251280

METHOD BLANK: 326229 Matrix: Water

Associated Lab Samples: 9251280001, 9251280002, 9251280003, 9251280004, 9251280005, 9251280006, 9251280007, 9251280008, 9251280009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Tetrachloroethene	ug/L	ND	1.0	08/23/09 10:36	
Toluene	ug/L	ND	1.0	08/23/09 10:36	
trans-1,2-Dichloroethene	ug/L	ND	5.0	08/23/09 10:36	
trans-1,3-Dichloropropene	ug/L	ND	1.0	08/23/09 10:36	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	08/23/09 10:36	
Trichloroethene	ug/L	ND	1.0	08/23/09 10:36	
Trichlorofluoromethane	ug/L	ND	1.0	08/23/09 10:36	
Vinyl acetate	ug/L	ND	50.0	08/23/09 10:36	
Vinyl chloride	ug/L	ND	1.0	08/23/09 10:36	
Xylene (Total)	ug/L	ND	5.0	08/23/09 10:36	
1,2-Dichloroethane-d4 (S)	%	109	79-120	08/23/09 10:36	
4-Bromofluorobenzene (S)	%	99	87-109	08/23/09 10:36	
Dibromofluoromethane (S)	%	104	85-115	08/23/09 10:36	
Toluene-d8 (S)	%	98	70-120	08/23/09 10:36	

LABORATORY CONTROL SAMPLE: 326230

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	58.4	117	83-125	
1,1,1-Trichloroethane	ug/L	50	55.8	112	80-129	
1,1,2,2-Tetrachloroethane	ug/L	50	53.1	106	73-127	
1,1,2-Trichloroethane	ug/L	50	55.1	110	77-123	
1,1-Dichloroethane	ug/L	50	51.9	104	76-129	
1,1-Dichloroethene	ug/L	50	54.2	108	78-146	
1,2,3-Trichloropropane	ug/L	50	57.4	115	72-125	
1,2-Dibromo-3-chloropropane	ug/L	50	54.4	109	65-128	
1,2-Dibromoethane (EDB)	ug/L	50	56.0	112	81-125	
1,2-Dichlorobenzene	ug/L	50	51.8	104	82-126	
1,2-Dichloroethane	ug/L	50	58.5	117	72-126	
1,2-Dichloropropane	ug/L	50	53.1	106	80-127	
1,3-Dichloropropane	ug/L	50	53.6	107	79-124	
1,4-Dichlorobenzene	ug/L	50	50.8	102	79-125	
2-Butanone (MEK)	ug/L	100	113	113	50-134	
2-Hexanone	ug/L	100	117	117	58-138	
4-Methyl-2-pentanone (MIBK)	ug/L	100	114	114	70-131	
Acetone	ug/L	100	142	142	50-146	
Acrylonitrile	ug/L	250	313	125	66-124	L3
Benzene	ug/L	50	49.0	98	78-128	
Bromochloromethane	ug/L	50	50.0	100	73-124	
Bromodichloromethane	ug/L	50	54.0	108	81-125	
Bromoform	ug/L	50	49.0	98	71-125	
Bromomethane	ug/L	50	67.1	134	50-150	
Carbon disulfide	ug/L	50	53.8J	108	54-150	
Carbon tetrachloride	ug/L	50	63.9	128	81-137	

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CHEROKEE CLOSED MSWLF
Pace Project No.: 9251280

LABORATORY CONTROL SAMPLE: 326230

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	ug/L	50	51.9	104	82-126	
Chloroethane	ug/L	50	44.1	88	69-140	
Chloroform	ug/L	50	52.0	104	77-129	
Chloromethane	ug/L	50	39.2	78	54-139	
cis-1,2-Dichloroethene	ug/L	50	52.6	105	76-133	
cis-1,3-Dichloropropene	ug/L	50	53.7	107	76-127	
Dibromochloromethane	ug/L	50	55.4	111	77-125	
Dibromomethane	ug/L	50	54.4	109	77-125	
Ethylbenzene	ug/L	50	53.2	106	80-127	
Iodomethane	ug/L	100	92.9	93	65-172	
m&p-Xylene	ug/L	100	111	111	82-127	
Methylene Chloride	ug/L	50	52.7	105	67-133	
Naphthalene	ug/L	50	52.2	104	52-136	
o-Xylene	ug/L	50	56.9	114	83-124	
Styrene	ug/L	50	49.2	98	80-130	
Tetrachloroethene	ug/L	50	49.5	99	78-128	
Toluene	ug/L	50	50.4	101	76-126	
trans-1,2-Dichloroethene	ug/L	50	50.2	100	78-134	
trans-1,3-Dichloropropene	ug/L	50	49.6	99	75-125	
trans-1,4-Dichloro-2-butene	ug/L	50	51.3J	103	51-140	
Trichloroethene	ug/L	50	54.0	108	79-127	
Trichlorofluoromethane	ug/L	50	52.6	105	76-148	
Vinyl acetate	ug/L	100	64.9	65	50-150	
Vinyl chloride	ug/L	50	56.5	113	67-143	
Xylene (Total)	ug/L	150	168	112	83-125	
1,2-Dichloroethane-d4 (S)	%			107	79-120	
4-Bromofluorobenzene (S)	%			103	87-109	
Dibromofluoromethane (S)	%			104	85-115	
Toluene-d8 (S)	%			98	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 326231 326232

Parameter	Units	9251280009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	72.8	70.0	146	140	60-150	4	30	
Benzene	ug/L	ND	50	50	61.3	57.6	123	115	74-136	6	30	
Chlorobenzene	ug/L	1.0J	50	50	61.7	60.9	121	120	79-135	1	30	
Toluene	ug/L	ND	50	50	61.7	58.7	123	117	73-131	5	30	
Trichloroethene	ug/L	ND	50	50	63.4	59.3	127	119	73-131	7	30	
1,2-Dichloroethane-d4 (S)	%						112	112	79-120			
4-Bromofluorobenzene (S)	%						95	96	87-109			
Dibromofluoromethane (S)	%						105	105	85-115			
Toluene-d8 (S)	%						100	97	70-120			

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QUALIFIERS

Project: CHEROKEE CLOSED MSWLF
Pace Project No.: 9251280

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

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

LABORATORIES

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

ANALYTE QUALIFIERS

L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
Z2	Analyte present in the associated method blank above the detection limit.

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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

1326592

Section A Required Client Information:

Company: Municipal Engineering Services
Address: PO Box 97
Gerger NC 27529
Email To: jpfohl@mesco.com
Phone: (919)772-5393 Fax: (919)772-1176
Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: Jonathan Pfohl
Copy To:
Purchase Order No.:
Project Name: Cherokee MSWLF Surface Waters
Project Number:

Section C Invoice Information:

Attention: See Section A
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Bonnie
Pace Profile #: 2103-3

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

Site Location STATE: NC

Section D Required Client Information

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

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

Requested Analysis Filtered (Y/N): N →

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED 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	Analysis Test: VOCs - App I	Analysis Test: Metals - App I	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SW-1	WT	G			8/18	14:35		4			1	3					✓	✓	N	001
2	SW-2	↓	↓				15:15		↓			↓	↓					↓	↓	↓	002
3	SW-4						09:00														003
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

9251278

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Samples From Valley River Between Closed & Lined Facilities	/MESCO	8/19/09	1:10	Lori Patton	8/19/09	1310	1.7	Y	N	Y
SW-1 classified as closed. SW-2/4 classified as Lined.										

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jonathan Pfohl

SIGNATURE of SAMPLER:

DATE Signed (MM/DD/YY): 8/18/09

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

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical

Sample Condition Upon Receipt

Client Name: Municipal Eng Project # 9251278

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other_____

Thermometer Used: IR Gun#2 / 72490786 Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Temp Correction Factor: Add / Subtract 0.2 C

Corrected Cooler Temp.: 1.7 C Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 2/8/19

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	CL
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes ☐No	Initial when completed
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☑Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):_____		

Optional	
Proj. Due Date:	
Proj. Name:	

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Field Data Required? Y / N

Comments/ Resolution: _____

Project Manager Review: BMH

Date: 08-20-09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form ...

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August 31, 2009

Mr. Jonathan Pfohl
Municipal Engineering Services
PO Box 97
Garner, NC 27529

RE: Project: CHEROKEE BLANKS
Pace Project No.: 9251279

Dear Mr. Pfohl:
Enclosed are the analytical results for sample(s) received by the laboratory on August 19, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

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

Sincerely,

Bonnie McKee

Bonnie McKee

bonnie.mckee@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CHEROKEE BLANKS
Pace Project No.: 9251279

Charlotte Certification IDs

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

Asheville Certification IDs

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

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SAMPLE SUMMARY

Project: CHEROKEE BLANKS
Pace Project No.: 9251279

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9251279001	**EB**	Water	08/17/09 14:10	08/19/09 13:10
9251279002	**FB**	Water	08/17/09 14:15	08/19/09 13:10
9251279003	**TB**	Water	08/17/09 00:00	08/19/09 13:10

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SAMPLE ANALYTE COUNT

Project: CHEROKEE BLANKS
Pace Project No.: 9251279

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9251279001	**EB**	EPA 6010	SHB	15	PASI-A
		EPA 8260	MCK	54	PASI-C
9251279002	**FB**	EPA 8260	MCK	54	PASI-C
9251279003	**TB**	EPA 8260	MCK	54	PASI-C

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ANALYTICAL RESULTS

Project: CHEROKEE BLANKS
Pace Project No.: 9251279

Sample: EB **Lab ID: 9251279001** Collected: 08/17/09 14:10 Received: 08/19/09 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	2.6	1	08/21/09 16:10	08/28/09 02:54	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	08/21/09 16:10	08/28/09 02:54	7440-38-2	
Barium	**21.2J**	ug/L	100	0.20	1	08/21/09 16:10	08/28/09 02:54	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	08/21/09 16:10	08/28/09 02:54	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	08/21/09 16:10	08/28/09 02:54	7440-43-9	
Chromium	**9.6J**	ug/L	10.0	0.40	1	08/21/09 16:10	08/28/09 02:54	7440-47-3	Z2
Cobalt	ND	ug/L	10.0	0.60	1	08/21/09 16:10	08/28/09 02:54	7440-48-4	
Copper	**0.83J**	ug/L	10.0	0.30	1	08/21/09 16:10	08/28/09 02:54	7440-50-8	
Lead	ND	ug/L	10.0	4.0	1	08/21/09 16:10	08/28/09 02:54	7439-92-1	
Nickel	**6.1J**	ug/L	50.0	1.7	1	08/21/09 16:10	08/28/09 02:54	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	08/21/09 16:10	08/28/09 02:54	7782-49-2	
Silver	ND	ug/L	10.0	0.10	1	08/21/09 16:10	08/28/09 02:54	7440-22-4	
Thallium	**4.8J**	ug/L	5.5	3.0	1	08/21/09 16:10	08/28/09 02:54	7440-28-0	
Vanadium	**0.45J**	ug/L	25.0	0.20	1	08/21/09 16:10	08/28/09 02:54	7440-62-2	
Zinc	**5.5J**	ug/L	10.0	0.40	1	08/21/09 16:10	08/28/09 02:54	7440-66-6	Z2
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		08/23/09 02:30	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		08/23/09 02:30	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		08/23/09 02:30	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		08/23/09 02:30	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/23/09 02:30	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		08/23/09 02:30	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		08/23/09 02:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		08/23/09 02:30	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		08/23/09 02:30	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/23/09 02:30	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		08/23/09 02:30	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		08/23/09 02:30	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		08/23/09 02:30	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/23/09 02:30	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		08/23/09 02:30	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		08/23/09 02:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/23/09 02:30	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		08/23/09 02:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		08/23/09 02:30	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/23/09 02:30	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		08/23/09 02:30	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		08/23/09 02:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/23/09 02:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		08/23/09 02:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		08/23/09 02:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		08/23/09 02:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/23/09 02:30	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/23/09 02:30	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/23/09 02:30	10061-01-5	

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

ANALYTICAL RESULTS

Project: CHEROKEE BLANKS
Pace Project No.: 9251279

Sample: EB **Lab ID: 9251279001** Collected: 08/17/09 14:10 Received: 08/19/09 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/23/09 02:30	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/23/09 02:30	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		08/23/09 02:30	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		08/23/09 02:30	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		08/23/09 02:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		08/23/09 02:30	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		08/23/09 02:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		08/23/09 02:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		08/23/09 02:30	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/23/09 02:30	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/23/09 02:30	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/23/09 02:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/23/09 02:30	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/23/09 02:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/23/09 02:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/23/09 02:30	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		08/23/09 02:30	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/23/09 02:30	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		08/23/09 02:30	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/23/09 02:30	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		08/23/09 02:30	95-47-6	
4-Bromofluorobenzene (S)	99	%	87-109		1		08/23/09 02:30	460-00-4	
Dibromofluoromethane (S)	104	%	85-115		1		08/23/09 02:30	1868-53-7	
1,2-Dichloroethane-d4 (S)	111	%	79-120		1		08/23/09 02:30	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		08/23/09 02:30	2037-26-5	

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ANALYTICAL RESULTS

Project: CHEROKEE BLANKS
Pace Project No.: 9251279

Sample: FB **Lab ID: 9251279002** Collected: 08/17/09 14:15 Received: 08/19/09 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		08/23/09 02:50	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		08/23/09 02:50	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		08/23/09 02:50	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		08/23/09 02:50	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/23/09 02:50	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		08/23/09 02:50	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		08/23/09 02:50	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		08/23/09 02:50	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		08/23/09 02:50	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/23/09 02:50	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		08/23/09 02:50	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		08/23/09 02:50	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		08/23/09 02:50	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/23/09 02:50	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		08/23/09 02:50	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		08/23/09 02:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/23/09 02:50	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		08/23/09 02:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		08/23/09 02:50	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/23/09 02:50	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		08/23/09 02:50	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		08/23/09 02:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/23/09 02:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		08/23/09 02:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		08/23/09 02:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		08/23/09 02:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/23/09 02:50	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/23/09 02:50	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/23/09 02:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/23/09 02:50	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/23/09 02:50	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		08/23/09 02:50	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		08/23/09 02:50	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		08/23/09 02:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		08/23/09 02:50	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		08/23/09 02:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		08/23/09 02:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		08/23/09 02:50	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/23/09 02:50	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/23/09 02:50	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/23/09 02:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/23/09 02:50	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/23/09 02:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/23/09 02:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/23/09 02:50	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		08/23/09 02:50	108-05-4	

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ANALYTICAL RESULTS

Project: CHEROKEE BLANKS
Pace Project No.: 9251279

Sample: FB **Lab ID: 9251279002** Collected: 08/17/09 14:15 Received: 08/19/09 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/23/09 02:50	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		08/23/09 02:50	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/23/09 02:50	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		08/23/09 02:50	95-47-6	
4-Bromofluorobenzene (S)	100	%	87-109		1		08/23/09 02:50	460-00-4	
Dibromofluoromethane (S)	104	%	85-115		1		08/23/09 02:50	1868-53-7	
1,2-Dichloroethane-d4 (S)	111	%	79-120		1		08/23/09 02:50	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		08/23/09 02:50	2037-26-5	

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ANALYTICAL RESULTS

Project: CHEROKEE BLANKS
Pace Project No.: 9251279

Sample: TB **Lab ID: 9251279003** Collected: 08/17/09 00:00 Received: 08/19/09 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		08/23/09 03:09	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		08/23/09 03:09	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		08/23/09 03:09	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		08/23/09 03:09	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/23/09 03:09	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		08/23/09 03:09	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		08/23/09 03:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		08/23/09 03:09	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		08/23/09 03:09	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/23/09 03:09	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		08/23/09 03:09	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		08/23/09 03:09	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		08/23/09 03:09	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/23/09 03:09	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		08/23/09 03:09	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		08/23/09 03:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/23/09 03:09	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		08/23/09 03:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		08/23/09 03:09	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/23/09 03:09	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		08/23/09 03:09	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		08/23/09 03:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/23/09 03:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		08/23/09 03:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		08/23/09 03:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		08/23/09 03:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/23/09 03:09	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/23/09 03:09	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/23/09 03:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/23/09 03:09	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/23/09 03:09	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		08/23/09 03:09	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		08/23/09 03:09	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		08/23/09 03:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		08/23/09 03:09	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		08/23/09 03:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		08/23/09 03:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		08/23/09 03:09	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/23/09 03:09	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/23/09 03:09	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/23/09 03:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/23/09 03:09	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/23/09 03:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/23/09 03:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/23/09 03:09	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		08/23/09 03:09	108-05-4	

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ANALYTICAL RESULTS

Project: CHEROKEE BLANKS
Pace Project No.: 9251279

Sample: TB **Lab ID: 9251279003** Collected: 08/17/09 00:00 Received: 08/19/09 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/23/09 03:09	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		08/23/09 03:09	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/23/09 03:09	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		08/23/09 03:09	95-47-6	
4-Bromofluorobenzene (S)	100	%	87-109		1		08/23/09 03:09	460-00-4	
Dibromofluoromethane (S)	106	%	85-115		1		08/23/09 03:09	1868-53-7	
1,2-Dichloroethane-d4 (S)	112	%	79-120		1		08/23/09 03:09	17060-07-0	
Toluene-d8 (S)	101	%	70-120		1		08/23/09 03:09	2037-26-5	

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QUALITY CONTROL DATA

Project: CHEROKEE BLANKS
Pace Project No.: 9251279

QC Batch: MPRP/4948
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 9251279001

METHOD BLANK: 325736
Matrix: Water
Associated Lab Samples: 9251279001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	08/28/09 02:36	
Arsenic	ug/L	ND	10.0	08/28/09 02:36	
Barium	ug/L	ND	100	08/28/09 02:36	
Beryllium	ug/L	ND	1.0	08/28/09 02:36	
Cadmium	ug/L	ND	1.0	08/28/09 02:36	
Chromium	ug/L	0.59J	10.0	08/28/09 02:36	
Cobalt	ug/L	ND	10.0	08/28/09 02:36	
Copper	ug/L	ND	10.0	08/28/09 02:36	
Lead	ug/L	ND	10.0	08/28/09 02:36	
Nickel	ug/L	ND	50.0	08/28/09 02:36	
Selenium	ug/L	ND	10.0	08/28/09 02:36	
Silver	ug/L	ND	10.0	08/28/09 02:36	
Thallium	ug/L	ND	5.5	08/28/09 02:36	
Vanadium	ug/L	ND	25.0	08/28/09 02:36	
Zinc	ug/L	3.7J	10.0	08/28/09 02:36	

LABORATORY CONTROL SAMPLE: 325737

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	485	97	80-120	
Arsenic	ug/L	500	466	93	80-120	
Barium	ug/L	500	478	96	80-120	
Beryllium	ug/L	500	500	100	80-120	
Cadmium	ug/L	500	473	95	80-120	
Chromium	ug/L	500	478	96	80-120	
Cobalt	ug/L	500	473	95	80-120	
Copper	ug/L	500	473	95	80-120	
Lead	ug/L	500	472	94	80-120	
Nickel	ug/L	500	471	94	80-120	
Selenium	ug/L	500	458	92	80-120	
Silver	ug/L	250	246	98	80-120	
Thallium	ug/L	500	448	90	80-120	
Vanadium	ug/L	500	472	94	80-120	
Zinc	ug/L	500	481	96	80-120	

MATRIX SPIKE SAMPLE: 325738

Parameter	Units	9251279001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	484	97	75-125	
Arsenic	ug/L	ND	500	469	94	75-125	

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QUALITY CONTROL DATA

Project: CHEROKEE BLANKS
Pace Project No.: 9251279

MATRIX SPIKE SAMPLE: 325738

Parameter	Units	9251279001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	21.2J	500	491	94	75-125	
Beryllium	ug/L	ND	500	501	100	75-125	
Cadmium	ug/L	ND	500	469	94	75-125	
Chromium	ug/L	9.6J	500	475	93	75-125	
Cobalt	ug/L	ND	500	467	93	75-125	
Copper	ug/L	0.83J	500	470	94	75-125	
Lead	ug/L	ND	500	468	94	75-125	
Nickel	ug/L	6.1J	500	466	92	75-125	
Selenium	ug/L	ND	500	456	91	75-125	
Silver	ug/L	ND	250	245	98	75-125	
Thallium	ug/L	4.8J	500	444	88	75-125	
Vanadium	ug/L	0.45J	500	471	94	75-125	
Zinc	ug/L	5.5J	500	484	96	75-125	

SAMPLE DUPLICATE: 325739

Parameter	Units	9251280007 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND		25	
Arsenic	ug/L	ND	ND		25	
Barium	ug/L	50.9J	50.6J	1	25	
Beryllium	ug/L	0.39J	0.35J		25	
Cadmium	ug/L	ND	ND		25	
Chromium	ug/L	3.1J	2.5J		25	
Cobalt	ug/L	24.9	25.2	1	25	
Copper	ug/L	5.3J	4.5J		25	
Lead	ug/L	ND	ND		25	
Nickel	ug/L	4.7J	4.5J		25	
Selenium	ug/L	ND	ND		25	
Silver	ug/L	0.34J	0.29J		25	
Thallium	ug/L	ND	ND		25	
Vanadium	ug/L	3.8J	3.1J		25	
Zinc	ug/L	29.0	27.3	6	25	

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(704)875-9092

QUALITY CONTROL DATA

Project: CHEROKEE BLANKS
Pace Project No.: 9251279

QC Batch: MSV/8041 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 9251279001, 9251279002, 9251279003

METHOD BLANK: 326193 Matrix: Water
Associated Lab Samples: 9251279001, 9251279002, 9251279003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	08/22/09 22:39	
1,1,1-Trichloroethane	ug/L	ND	1.0	08/22/09 22:39	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	08/22/09 22:39	
1,1,2-Trichloroethane	ug/L	ND	1.0	08/22/09 22:39	
1,1-Dichloroethane	ug/L	ND	5.0	08/22/09 22:39	
1,1-Dichloroethene	ug/L	ND	5.0	08/22/09 22:39	
1,2,3-Trichloropropane	ug/L	ND	1.0	08/22/09 22:39	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	08/22/09 22:39	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	08/22/09 22:39	
1,2-Dichlorobenzene	ug/L	ND	5.0	08/22/09 22:39	
1,2-Dichloroethane	ug/L	ND	1.0	08/22/09 22:39	
1,2-Dichloropropane	ug/L	ND	1.0	08/22/09 22:39	
1,3-Dichloropropane	ug/L	ND	1.0	08/22/09 22:39	
1,4-Dichlorobenzene	ug/L	ND	1.0	08/22/09 22:39	
2-Butanone (MEK)	ug/L	ND	100	08/22/09 22:39	
2-Hexanone	ug/L	ND	50.0	08/22/09 22:39	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	08/22/09 22:39	
Acetone	ug/L	ND	100	08/22/09 22:39	
Acrylonitrile	ug/L	ND	200	08/22/09 22:39	
Benzene	ug/L	ND	1.0	08/22/09 22:39	
Bromochloromethane	ug/L	ND	3.0	08/22/09 22:39	
Bromodichloromethane	ug/L	ND	1.0	08/22/09 22:39	
Bromoform	ug/L	ND	3.0	08/22/09 22:39	
Bromomethane	ug/L	ND	10.0	08/22/09 22:39	
Carbon disulfide	ug/L	ND	100	08/22/09 22:39	
Carbon tetrachloride	ug/L	ND	1.0	08/22/09 22:39	
Chlorobenzene	ug/L	ND	3.0	08/22/09 22:39	
Chloroethane	ug/L	ND	10.0	08/22/09 22:39	
Chloroform	ug/L	ND	5.0	08/22/09 22:39	
Chloromethane	ug/L	ND	1.0	08/22/09 22:39	
cis-1,2-Dichloroethene	ug/L	ND	5.0	08/22/09 22:39	
cis-1,3-Dichloropropene	ug/L	ND	1.0	08/22/09 22:39	
Dibromochloromethane	ug/L	ND	3.0	08/22/09 22:39	
Dibromomethane	ug/L	ND	10.0	08/22/09 22:39	
Ethylbenzene	ug/L	ND	1.0	08/22/09 22:39	
Iodomethane	ug/L	ND	10.0	08/22/09 22:39	
m&p-Xylene	ug/L	ND	2.0	08/22/09 22:39	
Methylene Chloride	ug/L	ND	2.0	08/22/09 22:39	
o-Xylene	ug/L	ND	1.0	08/22/09 22:39	
Styrene	ug/L	ND	1.0	08/22/09 22:39	
Tetrachloroethene	ug/L	ND	1.0	08/22/09 22:39	
Toluene	ug/L	ND	1.0	08/22/09 22:39	
trans-1,2-Dichloroethene	ug/L	ND	5.0	08/22/09 22:39	

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(704)875-9092

QUALITY CONTROL DATA

Project: CHEROKEE BLANKS
Pace Project No.: 9251279

METHOD BLANK: 326193 Matrix: Water

Associated Lab Samples: 9251279001, 9251279002, 9251279003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,3-Dichloropropene	ug/L	ND	1.0	08/22/09 22:39	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	08/22/09 22:39	
Trichloroethene	ug/L	ND	1.0	08/22/09 22:39	
Trichlorofluoromethane	ug/L	ND	1.0	08/22/09 22:39	
Vinyl acetate	ug/L	ND	50.0	08/22/09 22:39	
Vinyl chloride	ug/L	ND	1.0	08/22/09 22:39	
Xylene (Total)	ug/L	ND	5.0	08/22/09 22:39	
1,2-Dichloroethane-d4 (S)	%	108	79-120	08/22/09 22:39	
4-Bromofluorobenzene (S)	%	100	87-109	08/22/09 22:39	
Dibromofluoromethane (S)	%	103	85-115	08/22/09 22:39	
Toluene-d8 (S)	%	98	70-120	08/22/09 22:39	

LABORATORY CONTROL SAMPLE: 326194

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	57.5	115	83-125	
1,1,1-Trichloroethane	ug/L	50	55.0	110	80-129	
1,1,2,2-Tetrachloroethane	ug/L	50	52.7	105	73-127	
1,1,2-Trichloroethane	ug/L	50	55.2	110	77-123	
1,1-Dichloroethane	ug/L	50	52.0	104	76-129	
1,1-Dichloroethene	ug/L	50	54.6	109	78-146	
1,2,3-Trichloropropane	ug/L	50	58.3	117	72-125	
1,2-Dibromo-3-chloropropane	ug/L	50	54.8	110	65-128	
1,2-Dibromoethane (EDB)	ug/L	50	54.0	108	81-125	
1,2-Dichlorobenzene	ug/L	50	51.6	103	82-126	
1,2-Dichloroethane	ug/L	50	58.5	117	72-126	
1,2-Dichloropropane	ug/L	50	53.5	107	80-127	
1,3-Dichloropropane	ug/L	50	52.5	105	79-124	
1,4-Dichlorobenzene	ug/L	50	51.6	103	79-125	
2-Butanone (MEK)	ug/L	100	118	118	50-134	
2-Hexanone	ug/L	100	116	116	58-138	
4-Methyl-2-pentanone (MIBK)	ug/L	100	114	114	70-131	
Acetone	ug/L	100	143	143	50-146	
Acrylonitrile	ug/L	250	300	120	66-124	
Benzene	ug/L	50	49.8	100	78-128	
Bromochloromethane	ug/L	50	48.0	96	73-124	
Bromodichloromethane	ug/L	50	54.9	110	81-125	
Bromoform	ug/L	50	49.3	99	71-125	
Bromomethane	ug/L	50	63.9	128	50-150	
Carbon disulfide	ug/L	50	53.6J	107	54-150	
Carbon tetrachloride	ug/L	50	64.3	129	81-137	
Chlorobenzene	ug/L	50	51.7	103	82-126	
Chloroethane	ug/L	50	45.3	91	69-140	
Chloroform	ug/L	50	51.7	103	77-129	
Chloromethane	ug/L	50	38.9	78	54-139	

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QUALITY CONTROL DATA

Project: CHEROKEE BLANKS
Pace Project No.: 9251279

LABORATORY CONTROL SAMPLE: 326194

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	52.9	106	76-133	
cis-1,3-Dichloropropene	ug/L	50	55.9	112	76-127	
Dibromochloromethane	ug/L	50	53.9	108	77-125	
Dibromomethane	ug/L	50	53.7	107	77-125	
Ethylbenzene	ug/L	50	53.5	107	80-127	
Iodomethane	ug/L	100	81.3	81	65-172	
m&p-Xylene	ug/L	100	112	112	82-127	
Methylene Chloride	ug/L	50	52.8	106	67-133	
o-Xylene	ug/L	50	57.0	114	83-124	
Styrene	ug/L	50	49.7	99	80-130	
Tetrachloroethene	ug/L	50	49.1	98	78-128	
Toluene	ug/L	50	51.4	103	76-126	
trans-1,2-Dichloroethene	ug/L	50	50.3	101	78-134	
trans-1,3-Dichloropropene	ug/L	50	51.3	103	75-125	
trans-1,4-Dichloro-2-butene	ug/L	50	53.7J	107	51-140	
Trichloroethene	ug/L	50	55.7	111	79-127	
Trichlorofluoromethane	ug/L	50	52.5	105	76-148	
Vinyl acetate	ug/L	100	62.1	62	50-150	
Vinyl chloride	ug/L	50	55.7	111	67-143	
Xylene (Total)	ug/L	150	169	113	83-125	
1,2-Dichloroethane-d4 (S)	%			103	79-120	
4-Bromofluorobenzene (S)	%			103	87-109	
Dibromofluoromethane (S)	%			101	85-115	
Toluene-d8 (S)	%			99	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 326195 326196

Parameter	Units	9251179010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	70.3	70.5	141	141	60-150	0	30	
Benzene	ug/L	ND	50	50	59.8	58.6	120	117	74-136	2	30	
Chlorobenzene	ug/L	ND	50	50	60.3	59.7	121	119	79-135	1	30	
Toluene	ug/L	ND	50	50	61.3	60.2	123	120	73-131	2	30	
Trichloroethene	ug/L	0.90J	50	50	63.8	62.6	126	123	73-131	2	30	
1,2-Dichloroethane-d4 (S)	%						109	109	79-120			
4-Bromofluorobenzene (S)	%						95	96	87-109			
Dibromofluoromethane (S)	%						104	106	85-115			
Toluene-d8 (S)	%						99	98	70-120			

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QUALIFIERS

Project: CHEROKEE BLANKS
Pace Project No.: 9251279

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

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

LABORATORIES

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

ANALYTE QUALIFIERS

Z2	Analyte present in the associated method blank above the detection limit.

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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

1326591

Section A Required Client Information:

Company: Municipal Engineering Services
Address: PO Box 97
Graham NC 27529
Email To: jpfohl@mesco.com
Phone: (919)772-5393 Fax: (919)772-1176
Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: Jonathan Pfohl
Copy To:
Purchase Order No.:
Project Name: Cherokee Blanks
Project Number:

Section C Invoice Information:

Attention: See Section A
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Bonnie
Pace Profile #: 2103-3

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER

Site Location STATE: NC

Section D Required Client Information

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): 8260 - VOCs - AH I	Metals - AH I	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	EB	WT	G			8/17/09	2:10		4			1	3					✓	✓	N	9251279
2	FB	↓	↓			8/17/09	2:15		3				3					✓			001
3	TB	↓	↓			Pace Filled			2				2					✓			002
4																					003
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	JPfohl/MESCO	8/19/09	1:10	Lori Patton	8/19/09	13:10	1.7	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Jonathan Pfohl
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 8/19/09

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

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical

Sample Condition Upon Receipt

Client Name: Municipal Eng Project # 9251279

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other_____

Thermometer Used: IR Gun#2 / 72490786 Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Temp Correction Factor: Add / Subtract 0.2 C

Corrected Cooler Temp.: 1.7 C Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Optional
Proj. Due Date:
Proj. Name:

Date and Initials of person examining contents: [illegible]

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes ☐No	Initial when completed
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☑Yes ☐No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Field Data Required? Y / N

Comments/ Resolution: _____

Project Manager Review: BMH **Date:** 08-20-09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR

Single-Day Potentiometric Map