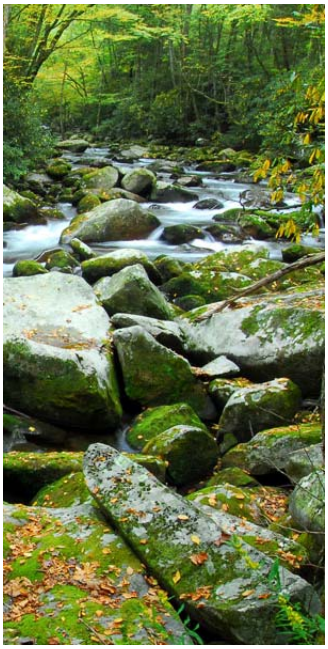

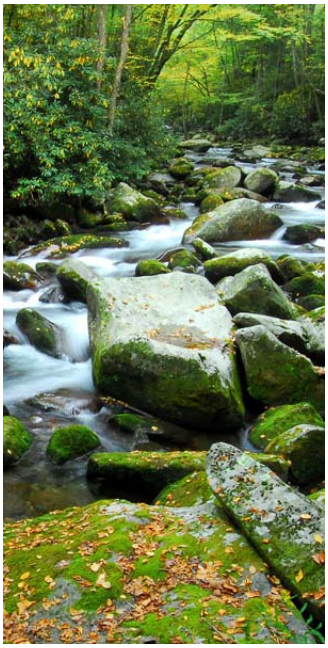

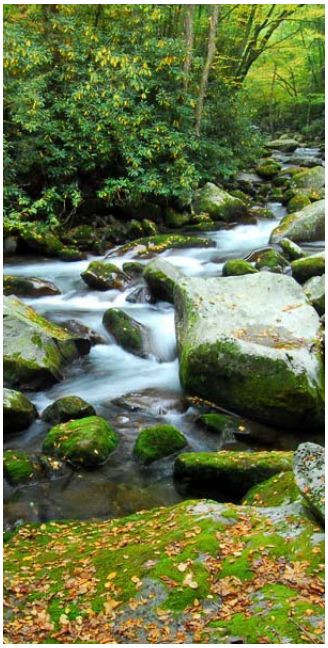

ALTAMONT ENVIRONMENTAL, INC.

ENGINEERING & HYDROGEOLOGY

Groundwater and Soil Assessment Report

Jackson County Scott Creek MSW and C&D Transfer Facility

October 29, 2010

Prepared for
Jackson County Solid Waste Department
401 Grindstaff Cove Road, Suite A-207
Sylva, NC 28779

Prepared by
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Groundwater and Soil Assessment Report

Jackson County Scott Creek MSW and C&D Transfer Facility

October 29, 2010

Amy Bondurant, GIT
Project Geologist

Christopher F. Gilbert, PE
Professional Engineer

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1.0 Introduction

This report presents the activities and results of the Groundwater and Soil Assessment for the Scott Creek Municipal Solid Waste (MSW) and Construction and Demolition debris (C&D) Transfer Facility near the town of Addie in Jackson County, North Carolina (Figure 1). This report is in response to the North Carolina Department of Environment and Natural Resources (DENR) Division of Waste Management (DWM) Solid Waste Section (SWS) (referred to in the remainder of this report as DENR) *Compliance Order with Administrative Penalty* dated December 29, 2009 (DENR, 2009a). The scope of work for this assessment, which includes the installation of a clustered pair of monitoring wells and one background monitoring well and associated soil and groundwater sampling, is in compliance with the work plan submitted by Altamont Environmental, Inc. (Altamont, 2010) and approved by DENR (DENR, 2010b).

The objective of this work is to determine whether a leachate release, identified in DENR's September 24, 2009 audit (DENR, 2009b), has affected the soil and groundwater quality. This report documents investigation activities performed to characterize the significance and extent of contamination (if any) from the leachate release. A site detail map, showing surveyed monitoring-well locations, building locations, covered areas, and other site features, is included as Figure 2.

2.0 Background

The site is located in the southern part of the township of Addie, North Carolina, a small community in a remote valley within rugged terrain of the Blue Ridge Mountains. The site is located southerly adjacent to Scott Creek, which flows southwesterly to the Tuckaseegee River. A smaller tributary, Ochre Hill Creek, flows northwesterly along the southern borders of the site. Its confluence with Scott Creek is located just northwest of the site (Figures 1 and 2).

The following bullets describe our understanding of the recent events with regard to the leachate release.

- DENR performed a Facility Compliance Audit at the Jackson County Scott Creek Transfer Facility on September 29, 2009 (Figure 1; DENR, 2009b). The auditor observed parked tractor trailers containing waste material leaking liquid onto the ground surface. The approximate path of the liquid is shown on Figure 2. The audit noted that "water that came in contact with solid waste (leachate) was not contained on site, not treated prior to discharge from the site".
- The DENR issued a Compliance Order with Administrative Penalty dated December 29, 2009 to Jackson County. The document states that Jackson County is in violation of Title 15A Subchapter 13B.0402 of the North Carolina Administrative Code (15A NCAC 13B .0402) because water that came in contact with solid waste was released and migrated into the nearest surface water body, Ochre Hill Creek (DENR, 2009a).
- In February, 2010, Municipal Engineering, under contract to Jackson County, collected soil and surface water samples at the site. These activities and results are described in the *Limited Soil and Surface Water Assessment Report* (Municipal Engineering, 2010) and are not discussed further in this report.
- DENR responded via a letter dated May 3, 2010 requesting additional work items, including the installation of a monitoring well cluster and a well and receptor survey (DENR, 2010a).
- Jackson County performed the well and receptor survey in June 2010 and has provided the results to DENR.
- In July 2010, Altamont submitted a Work Plan for the additional work items that DENR requested (excepting the well and receptor survey; Altamont, 2010). This Work Plan has been approved by DENR (DENR, 2010b).

As described in the Work Plan, the scope of work for the Groundwater and Soil Assessment includes the following activities:

- Drill and install three monitoring wells composed of two clustered saprolite and bedrock monitoring wells (MW-01 and MW-02) and a background saprolite monitoring well (MW-03).
- Develop each monitoring well and collect associated groundwater samples.
- Collect discrete soil samples during the advancement of the monitoring well borings.
- Develop and submit an assessment report.

These activities are described in more detail in Section 4.0.

3.0 Geology and Hydrogeology

The local geology is characterized by biotite gneiss country rock and a ring dike composed of meta-ultramafic rock that contains metamorphosed dunite, local peridotite, serpentinite, and soapstone (NC Geological Survey, 1985). A relatively well known dunite deposit known as the Addie Deposit, consisting of olivine, talc, chlorite, and other secondary minerals (Hunter, 1941), is present very near to and may underlie the site. A former olivine mine tapping this deposit which was operated by Applied Industrial Materials Corporation, is located just south (upslope) of the site.

Overall, the topsoil and underlying weathered residual saprolitic dunite deposits consist of clayey silty sands to gravelly sandy silts. Upslope of the facility, the background well (MW-03) was drilled to a depth of 79.0 feet below ground surface (bgs) through weathered saprolite, no bedrock was encountered. Bedrock was encountered at a depth of 57 feet bgs at MW-02 (Figure 2). A layer of rock fragments and cobbles was present at a depth of 45 feet bgs at the same location and produced a large amount of water.

Groundwater was encountered at a depth of 26 feet bgs at MW-01; under semi-confined conditions. After the hole was drilled, the depth to water stabilized to 12.0 feet bgs. As mentioned above, during the well drilling at MW-02 (located just to the southeast of MW-01), a prolific water bearing zone was discovered at 45 ft bgs, which was blocked with the surface casing due to the instability of sediments. Water-bearing fractures in bedrock were encountered at 76.0 feet bgs and 80 feet bgs. Water level in MW-02 stabilized after well installation to a depth of 12.0 feet bgs. Upgradient in MW-03, groundwater was present at a depth of 76.0 feet bgs and stabilized to 66.0 feet bgs. Groundwater flow is presumed to be to the west at the facility towards Scott Creek (Figure 2).

4.0 Monitoring Well Installation and Groundwater Sampling

4.1 Monitoring Well Installation

Altamont conducted the monitoring well installations from August 3, 2010 to August 5, 2010. A North Carolina certified well driller, Geologic Exploration Inc. (North Carolina Certification No. 2452) of Statesville, North Carolina, installed the monitoring wells under the direct supervision and oversight of Altamont.

Three monitoring wells (MW-01 through MW-03) were installed. Two of the wells (MW-01 and MW-02) were installed downgradient of the facility near the location where the leachate drained off of the asphalt and onto the soils. The third monitoring well (MW-03) was installed as a background well upgradient of the facility. Two of the wells (MW-01 and MW-03) were screened across the water table. One monitoring well (MW-02) was installed as a bedrock well. The locations of these new monitoring wells are shown on Figure 2.

Altamont observed the well installation, logged the soils, and collected split-spoon soil samples from the MW-01 and the MW-03 soil borings. The boring for monitoring well MW-01 was advanced using 4.25-inch hollow stem augers (HSAs) powered by a Geoprobe to a total depth of 28.0 feet bgs. The bottom ten feet of the boring associated with MW-01 was backfilled with sand and the well was constructed in the remaining borehole with a depth of completion of 18.0 feet bgs. MW-03 was advanced to a total depth of 79.0 feet bgs, using air rotary drilling methods due to the depth and density of the underlying material. The borehole for MW-02, the bedrock monitoring well, was drilled in several steps. Initially, a ten-inch diameter borehole was drilled through the saprolite and underlying partially weathered rock zone using HSA drilling methods. Bedrock was encountered at a depth of 57 feet below the surface. The borehole was then advanced using air rotary drilling methods an additional twelve feet into the underlying bedrock to ensure that the surface casing could be installed into a socket of competent bedrock. A six-inch diameter polyvinyl chloride (PVC) surface casing was grouted into place to the bottom of this borehole, at a total depth of 69 feet bgs. Then a six-inch rotary bit drilled through bedrock to a depth of 85 feet bgs. Water-bearing fractures in bedrock were encountered at 76.0 feet bgs and 80 feet bgs. The monitoring well was installed at 85 feet bgs with a 10-foot screen up to 75 feet bgs.

Each monitoring well consists of 2-inch nominal inside-diameter (ID) Schedule 40 PVC. The screen sections are 10 feet in length with 0.010-inch slots. The filter pack material consists of #2 (20-40 mesh) clean, washed, well-rounded silica sand. The bentonite seal is composed of commercially manufactured sodium bentonite holeplug, which is 3/8-inch diameter. The cement grout consists of a neat mixture of Portland cement and water. The drill cuttings from the well installation were collected and placed in 55-gallon drums. Table 1 summarizes well construction details. Well construction logs are located in Appendix A. The lithology of each boring is described on the individual boring logs located in Appendix B.

4.2 Top of Casing and Location Survey

A survey was conducted by a licensed North Carolina surveyor (Wes Cole Land Surveying, PA, L-4561) on August 18, 2010. The three new monitoring wells were surveyed for northing, easting, ground elevation, and top of casing elevation.

4.3 Well Development

After installation and a minimum 24-hour period for grout curing, each monitoring well was developed using a mini-typhoon whale pump and polyethylene plastic tubing. The whale pump was decontaminated before insertion into each well and new plastic tubing was used for each well. Development logs are included in Appendix C.

4.4 Soil Sampling

Altamont collected discrete soil samples during the installation of MW-01 and MW-03. Samples were collected at five-foot intervals from 0 to 15 feet bgs directly from the Geoprobe acetate sleeve. New acetate sleeves were installed prior to each sample collection. After sample collection, the samples were placed in a cooler with ice and transported to Pace Analytical Services, Inc. (Pace) in Asheville, North Carolina. The soil samples were analyzed for the following parameters

- Appendix I Volatile Organic Compounds (VOCs) using US Environmental Protection Agency (EPA) Method 8260
- Appendix I Metals plus magnesium and iron using EPA method 6010/7470

4.5 Groundwater Sampling

Altamont collected groundwater samples from each of the monitoring wells (MW-01 through MW-03) on August 19, 2010 using low-flow purging and sampling techniques. New polyethylene tubing was used to sample each well. The pumped water was piped to a flow-through cell equipped with pH, temperature, dissolved oxygen (DO), specific conductivity (SC), and oxygen reduction potential (ORP) meters to monitor real-time variations in these parameters. Appendix D presents the pertinent groundwater sampling logs (Note: The pH measured in MW-03 was higher than that measured during well development and as indicated on the attached log is likely not representative of groundwater quality). After sample collection, the samples were placed in a cooler with ice and transported to Pace in Asheville, North Carolina. The water samples were analyzed for the following parameters:

- Appendix 1 VOCs using EPA Method 8260
- Appendix 1 Metals plus magnesium and iron using EPA Method 6010

5.0 Findings

5.1 Soil Sampling Analytical Results

Soil samples were collected during the installation of MW-01 and MW-03 at 5, 10, and 15 feet bgs. Table 2 summarizes the soil sample analytical results. Appendix E includes the soil sample laboratory analytical report and chain-of-custody form.

No VOCs were detected in any of the soil samples collected from MW-01 and MW-03.

Metals were detected in all of the soil samples collected from MW-01 and MW-03. The majority of concentrations of metals detected in all samples from MW-01 are lower than the concentrations of metals detected from the background well, MW-03, except for Arsenic, Barium, Beryllium, Lead, Vanadium, and Zinc (see Table 2 and Appendix E). With the exception of Vanadium, none of the metals listed in the preceding sentence exceed the DENR, Division of Waste Management, Inactive Hazardous Sites Branch (IHSB) preliminary soil remediation goals (PSRGs) as summarized on Table 2.

5.2 Groundwater Sampling Analytical Results

Table 3 summarizes the groundwater sample analytical results and provides a comparison to applicable North Carolina groundwater quality standards defined in Title 15A, Subchapter 2L .0202 of the North Carolina Administrative Code (2L Standards). Appendix F includes the groundwater sample laboratory analytical report and chain-of-custody form.

Two VOCs (Acetone and Chloromethane) were detected as J values (estimated concentration above the adjusted method detection limit and below the adjusted reporting limit) in MW-02, MW-03, and the duplicate sample collected at MW-01. The laboratory-supplied trip blank also had J values of these constituents. A discussion with Pace representative, Tom Williams, stated that the detections in groundwater are artifacts.

Concentrations of metals were detected in groundwater at concentrations above the 2L Standards, as follows:

- **MW-01**: Cobalt, Iron, Manganese, and Vanadium
- **MW-02**: Iron and Vanadium
- **MW-03**: Chromium, Cobalt, Iron, Manganese, Nickel, and Vanadium

The concentrations of the metals that were detected at MW-01 and MW-02 above 2L Standards are lower than the concentrations in the background well, MW-03.

The groundwater samples collected from MW-01 and MW-03 were very turbid due to the grain size and consistency of the weathered saprolite (see Table 3 and Appendix D). Elevated turbidity in samples can result in higher metals concentrations in the resultant analyses.

6.0 Conclusions

Several metals were detected above the regulatory standards in both the soil and the groundwater samples collected as part of this investigation.

Detected concentrations associated with the background monitoring well MW-03 were generally higher than those associated with MW-01 and MW-02 (Tables 2 and 3). There was one exception. Vanadium was detected at a higher concentration in the soil samples associated with MW-01 than the soil samples associated with MW-03. However, Vanadium concentrations in the groundwater samples associated with these wells were higher in the background well than in MW-01.

In addition to these metals being generally higher in the background well than in the wells installed to investigate the leachate release, many of the metals, including magnesium, iron, chromium, nickel, and zinc, commonly occur in minerals composing ultra-mafic rocks (Hunter, 1941; Chesterman, 1979). The detected metal concentrations appear to derive from the geologic environment of the site (the nearby dunite deposit), rather than the leachate percolating into the subsurface.

No VOCs were detected in the soil samples. No VOCs representative of groundwater quality were detected in the monitoring well samples.

Based on the data described in this report, it is the opinion of Altamont that the water that had been in contact with the solid waste has not impacted soil or groundwater quality within the vicinity of MW-01 and MW-02. Altamont has no recommendations for further action at the Scott Creek Transfer Facility.

7.0 References

Altamont Environment, Inc. 2010. Letter to Jaclynne Drummond, DENR, Subject: *Groundwater and Additional Soil Assessment Work Plan*, July9, 2010.

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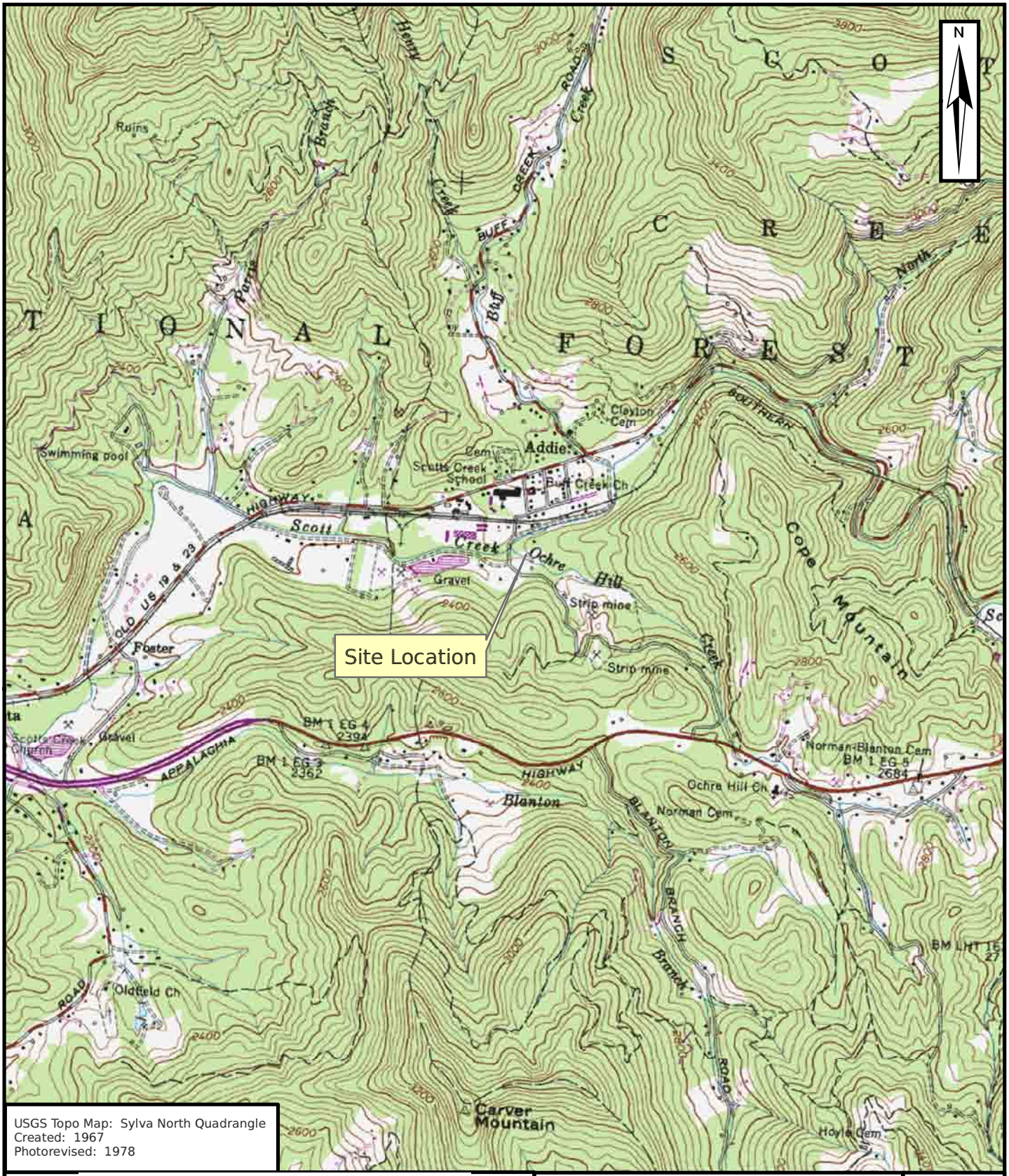
FIGURES



USGS Topo Map: Sylva North Quadrangle
Created: 1967
Photorevised: 1978

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SITE LOCATION MAP

SCOTT CREEK TRANSFER STATION
JACKSON COUNTY, NORTH CAROLINA

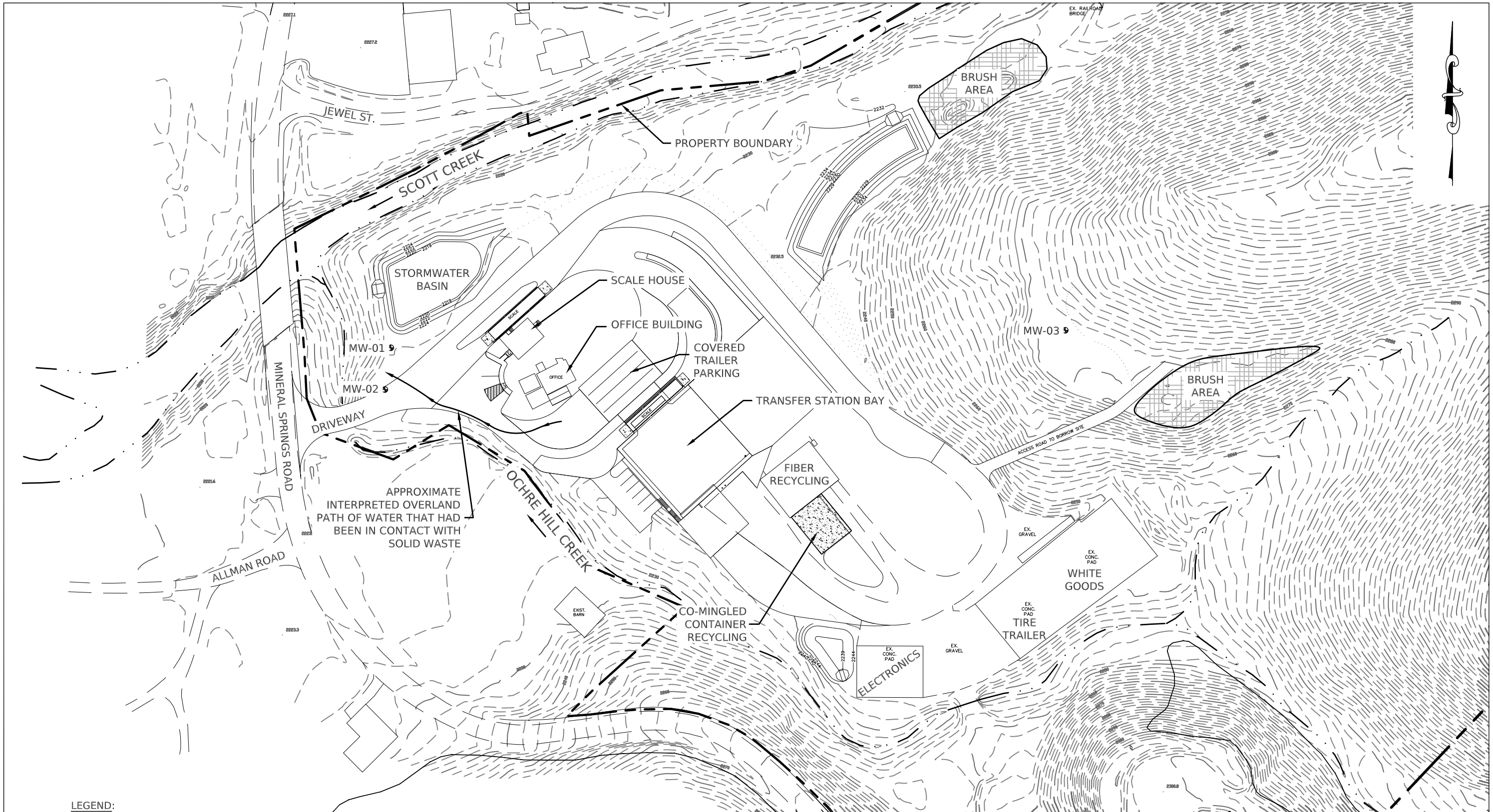
FIGURE

1

Drawn By: Chad Hearn
Project Manager: Alec Macbeth
Client: Jackson County
Date: 06/30/2010

Scale
0 500 1,000 2,000
Feet

P:\Jackson County\Scotts Creek\2010 Assessment\Figure 1 - Site Location Map.mxd



LEGEND:

- SURVEYED MONITORING WELLS
- CREEK / SURFACE WATER BODY
- PROPERTY BOUNDARY LINE
- CONTOUR LINES (2-FT INTERVAL)

SOURCE:

CAD DRAWING PROVIDED BY CHAD PARKER WITH JACKSON COUNTY.

REV.	DATE	DESCRIPTION	BY	CHK	APV

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DRAWN BY: CHAD HEARN
PROJECT MANAGER: ALEC MACBETH
CLIENT: JACKSON COUNTY
DATE: 09/28/2010

SCALE (FEET)
50' 0 50' 100'
1" = 100'

SURVEYED MONITORING WELL LOCATIONS

SCOTT CREEK TRANSFER STATION
JACKSON COUNTY, NORTH CAROLINA

FIGURE 2

FILE PATH: P:\Jackson County\Scotts Creek\2010 Assessment\Figure 2 - Surveyed MW Locations.dwg

TABLES

Table 1
Well Construction Summary

Groundwater and Soil Assessment Report
Scott Creek Transfer Facility
Jackson County, North Carolina

Well ID	Date Installed	Nominal Inside Diameter (inches)	Casing Construction Material	Total Well Depth (feet bgs)	TOC Elevation (ft-MSL)	Ground Surface Elevation (ft-MSL)	Stick-up (ft above ground surface)	Screened Interval Depth (feet bgs)	Top of Screen Elevation (ft-MSL)	Bottom of Screen Elevation (ft-MSL)	Formation Screened	Depth to Groundwater (feet TOC)	Groundwater Elevation (feet TOC)
MW-01	8/4/2010	2	PVC	18.0	2239.6	2236.3	3.3	8.0- 18.0	2231.6	2221.6	Saprolite	12.3	2227.4
MW-02	8/5/2010	2	PVC	85.0	2238.5	2236.1	2.4	75.0 to 85.0	2163.5	2153.5	Bedrock	13.6	2224.9
MW-03	8/4/2010	2	PVC	79.0	2307.3	2304.8	2.5	69.0 to 79.0	2238.3	2228.3	Saprolite	66.7	2240.5

Notes:
1. Elevations are in feet above mean sea level (ft-MSL). (Based on survey conducted by Wes Cole Land Surveying, PA on August 18, 2010.)
2. TOC means top of casing.
3. bgs means below ground surface.
4. Depth to water measured on August 19, 2010
5. Top of bedrock estimated to be 57.0 feet below ground surface

Table 2
Soil Sample Analytical Results

Groundwater and Soil Assessment
Scott Creek Transfer Facility
Jackson County, North Carolina

Sample ID	Date Collected	Sample Depth Interval	Metals																
			Antimony	Arsenic	Barium	Beryillum	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Nickel	Selenium	Thallium	Vanadium	Zinc	Mercury
		feet bgs	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*
MW01-5	8/4/10	3.0-5.0	1.7	1.9	107.0	0.57	0.45	39.8	**17.8**	25.8	**13,500**	44.2	24,200	**203**	ND	ND	**27.1**	263.0	0.054
MW01-10	8/4/10	8.0 - 10.0	0.53	ND	95.8	0.30	0.29	12.5	**9.0**	ND	**21,800**	2.7	3,000	8.8	ND	ND	**19.1**	16.9	ND
MW01-15	8/4/10	13.0 - 15.0	ND	2.7	294.0	0.73	0.89	45.3	**45.3**	42.3	**42,700**	7.0	10,700	26.3	ND	ND	**65.1**	92.9	ND
MW03-5	8/3/10	3.0-5.0	5.1	ND	21.9	0.25	3.7	124	**95.0**	23.4	**48,700**	3.1	140,000	**1,830**	4.0	ND	**4.0**	15.8	ND
MW03-10	8/3/10	8.0 - 10.0	6.2	ND	24.4	0.23	2.8	147	**93.0**	25.4	**44,600**	3.0	139,000	**1,140**	3.8	ND	**7.1**	16.4	0.0089
MW03-15	8/3/10	13.0 - 15.0	**12.6**	ND	31.1	0.39	5.1	371	**106**	45.8	**62,100**	5.1	60,700	**1,370**	1.7	0.87	**26.3**	26.1	0.049
Health-Based PSRG			6.3	4.4	3100	31	14	23,000	4.7	630	11,000	400	NL	310	78	NL	1.1	4,700	1.1
Protection of Groundwater PSRG			NL	5.8	580	NL	3.0	360,000	NL	700	150	270	NL	130	2.1	NL	NL	1,200	NL

Notes:
1. This table presents detected metals only; no VOCs were detected in soil.
2. For complete analyses and detection limits see the analytical reports (Appendix E).
3. Units are milligrams per kilogram (mg/kg).
4. Preliminary Health-Based Soil Remediation Goals (PSRG) are from the Inactive Hazardous Site Branch Guidance January 2010.
5. Regulatory values for Chromium listed as Chromium III, Insoluble salts from the IHSB guidance January 2010.
6. **Bold** numbers indicate compound detected above Health-Based PSRG.
7. Shaded numbers indicate compound detected above Groundwater PSRG.
8. NL = Not Listed in *Inactive Hazardous Site Branch Soil Remediation Goals (SRG)* DENR, 2010.
9. ND = Not detected at a concentration greater than associated method detection limit (MDL).
10. Quality control duplicate soil sample was taken at MW01-15; highest values out of both samples were posted.
12. bgs= below ground surface.

Table 3
Groundwater Analytical Results

Groundwater and Soil Assessment Report
Scott Creek Transfer Facility
Jackson County, North Carolina

Sample ID	Sample Date	Turbidity (NTU)	EPA Method 6010/7470																
			Antimony	Arsenic	Barium	Beryllium	Chromium	Cobalt	Copper	Iron	Lead	Manganese	Magnesium	Nickel	Selenium	Silver	Vanadium	Zinc	Mercury
MW-01	8/19/2010	148.0	ND	3.7 J	199	0.37J	7.6	**5.9**	2.3J	**6,350**	ND	**546**	21,500	15.7	ND	ND	**11.1**	13	ND
MW-02	8/19/2010	9.7	ND	3.8J	268	0.23J	9.2	ND	0.44J	**1,190**	ND	22.6	29,100	ND	ND	0.64J	**6.7**	7.4J	0.071J
MW-03	8/19/2010	760.0	27.3	2.9J	61.5	0.63J	**668**	**137**	62.9	**54,500**	ND	**906**	115,000	**1,880**	8.9J	0.49J	**22.6**	24.5	0.073J
2L Standard			NL	10	700	NL	10	1	1,000	300	15	50	NL	100	20	20	0.3	1,000	1

Notes:
1. This table presents detected metals only. Two VOCs (Chloromethane and Acetone) were detected as J values (estimated concentration above the adjusted method detection limit and below the adjusted reporting limit) in Duplicate MW-01, MW-02, MW-03 samples and the laboratory supplied trip blanks.
2. For complete analyses and detection limits see the analytical reports (Appendix F).
3. Units are micrograms per liter (µg/l).
4. 2L Standards are from the North Carolina Administrative Code (NCAC) Title 15A, Chapter 2, Subchapter 2L (2L Standard), January 2010.
5. 2L Standards for cobalt and vanadium are Groundwater Interim Maximum Allowable Concentration (IMACs) Established, Effective October 1, 2010.
6. ND = not detected at a concentration above the method detection limit.
7. NL indicates that an applicable standard is not listed in the 2L Standards.
8. **Bold** and shaded indicates the concentration detected is above the current 2L Standard (January 2010).
9. Quality control duplicate sample taken at MW-01; highest detected concentration out of both samples is posted.
10. NTU=nephelometric turbidity units.

APPENDIX A

WELL CONSTRUCTION LOGS

MONITORING WELL CONSTRUCTION DATA

DATE INSTALLED: 8/4/2010	CLIENT: Jackson Co. Scotts Creek Transfer Facility	PROJECT NO: 2040.4010

WELL/BORING NO: MW-01

PLANE COORDINATES:

NORTH 627179.7

EAST 759844.2

PROJECT NAME: Scott Creek Transfer Facility

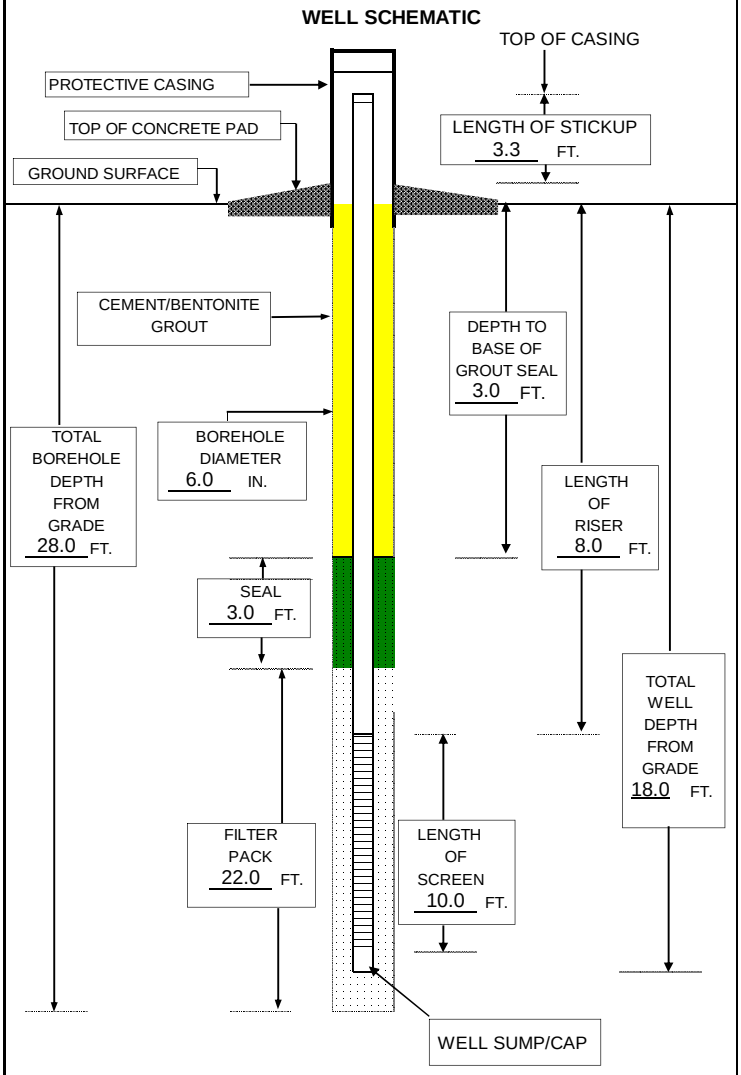
ADDRESS: 1172 Mineral Springs Drive
Addie, NC 28779

TOP OF SLAB ELEVATION: 2236.3

WELL CONTRACTOR: Geologic Exploration, Inc

TOP OF CASING ELEVATION: 2239.6

WELL SCHEMATIC



ALL ELEVATIONS ARE IN FEET NGVD

CONSTRUCTION DATA

CASING INFORMATION

MATERIAL: [X] PVC [ ] STAINLESS [ ] CARBON
[ ] OTHER

DIAMETER: [X] 2" [ ] 4" [ ] 6"
[ ] OTHER _____ IN.

JOINTS: [X] THREADED [ ] WELDED
[ ] SCREWED [ ] COUPLED
[ ] OTHER

SCHEDULE: 40

SCREEN INFORMATION

MATERIAL: [X] PVC
[ ] STAINLESS
[ ] TEFLON
[ ] OTHER

DIAMETER: [X] 2"
[ ] 4"
[ ] 6"
[ ] OTHER _____ IN

SLOT: [X] 0.010
[ ] 0.020
[ ] OTHER _____ IN

CENTRALIZER: [ ] YES [X] NO
SHOW LOCATION OF CENTRALIZER(S) ON SCHEMATIC

FILTER PACK MATERIAL

20/40 SAND
OTHER [X] GP #1

SECONDARY FILTER PACK MATERIAL

SUGAR SAND [ ]
OTHER [ ]

BENTONITE WELL SEAL

[ ] 1/2-INCH PELLETS
[ ] 1/4-INCH PELLETS
[ ] CHIPS
[X] OTHER 3/8-inch hole plug

SURFACE PROTECTION

CONCRETE PAD: [X] 3'X3'
[ ] 4'X4'
[ ] OTHER _____ FT

WELL SUMP/CAP

[X] YES
[ ] NO
LENGTH 0.30 FT.

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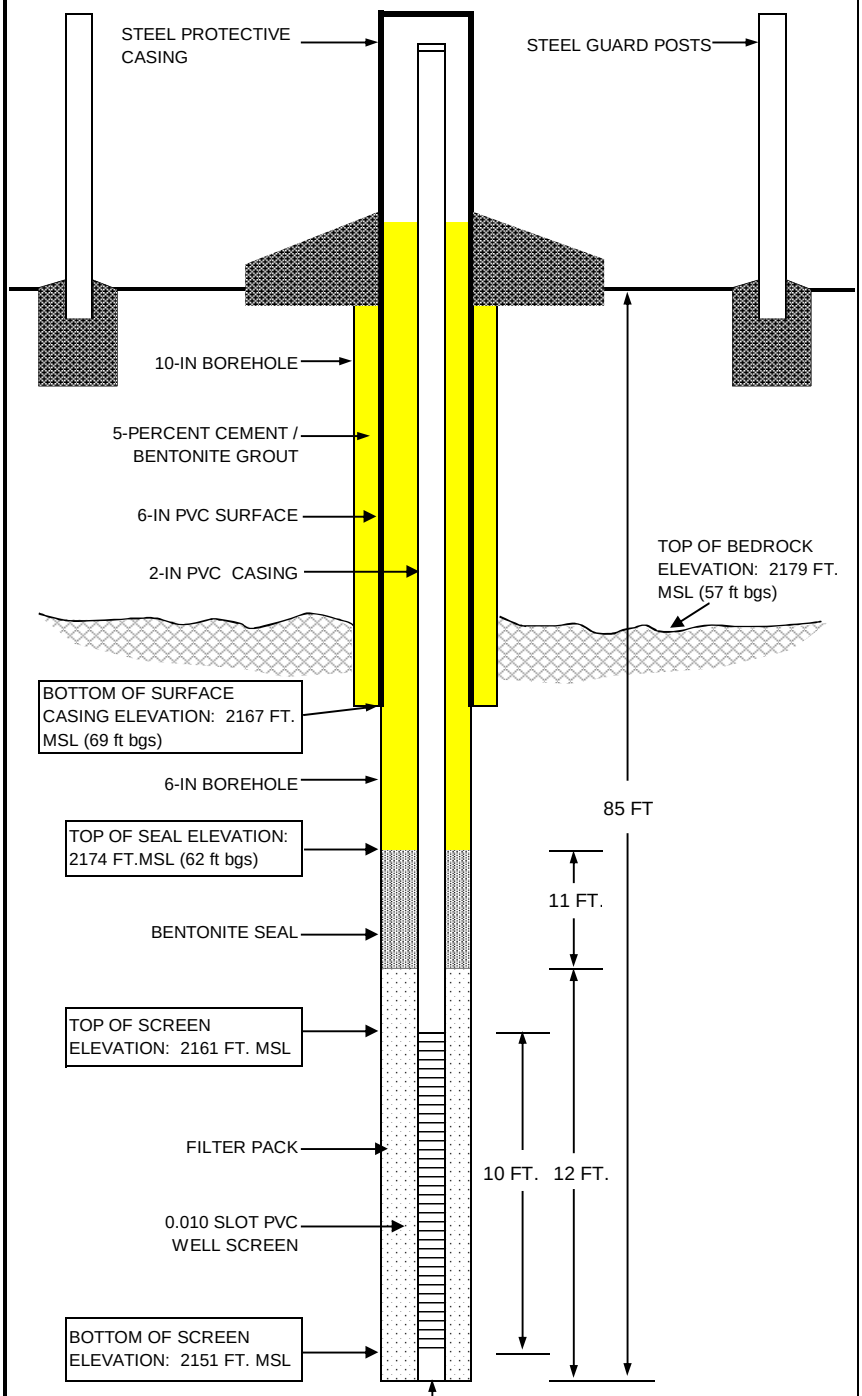
MONITORING WELL CONSTRUCTION DETAILS

Project Name	Jackson County/ Scott Creek	Boring Name	MW-02
Project No.	2040.4010	Grade Elevation	2236.1 FT MSL
Geologist	A. Bondurant	TOC Elevation	2238.5 FT MSL
Driller	Geologic Exploration, Inc.	Date of Installation	8/5/2010
Drilling Method	Air Rotary		

WELL CONSTRUCTION DIAGRAM



■ YES ☐ NO

LENGTH 0.3 FT.

(NOTE: NOT TO SCALE)

CONSTRUCTION DATA

CASING INFORMATION

MATERIAL: ■ PVC ☐ STAINLESS ☐ CARBON
☐ OTHER _____

DIAMETER: ■ 2" ☐ 4" ■ 6"
☐ OTHER _____ IN.

JOINTS: ■ THREADED ☐ WELDED
☐ SCREWED ☐ COUPLED
☐ OTHER _____

SCHEDULE: 40

SCREEN INFORMATION

MATERIAL: ■ PVC
☐ STAINLESS
☐ TEFLON
☐ OTHER _____

DIAMETER: ■ 2"
☐ 4"
☐ 6"
☐ OTHER _____ IN.

SLOT: ■ 0.010
☐ 0.020
☐ OTHER _____ IN.

CENTRALIZER: ☐ YES ■ NO

FILTER PACK MATERIAL

☐ 20/40 SAND
■ OTHER Sand #2

BENTONITE WELL SEAL

☐ 1/2-INCH PELLETS
☐ 1/4-INCH PELLETS
☐ CHIPS
■ OTHER 3/8-inch hole plug

SURFACE PROTECTION

CONCRETE PAD: ☐ 5'X5'
■ 4'X4'
☐ OTHER _____ FT.

STEEL POSTS: ■ 2"
☐ 4"
☐ OTHER _____ IN.

MONITORING WELL CONSTRUCTION DATA

DATE INSTALLED: 8/4/2010	CLIENT: Jackson Co. Scotts Creek Transfer Facility	PROJECT NO: 2040.4010

WELL/BORING NO: MW-03

PLANE COORDINATES:
NORTH 627198.0
EAST 760547.7

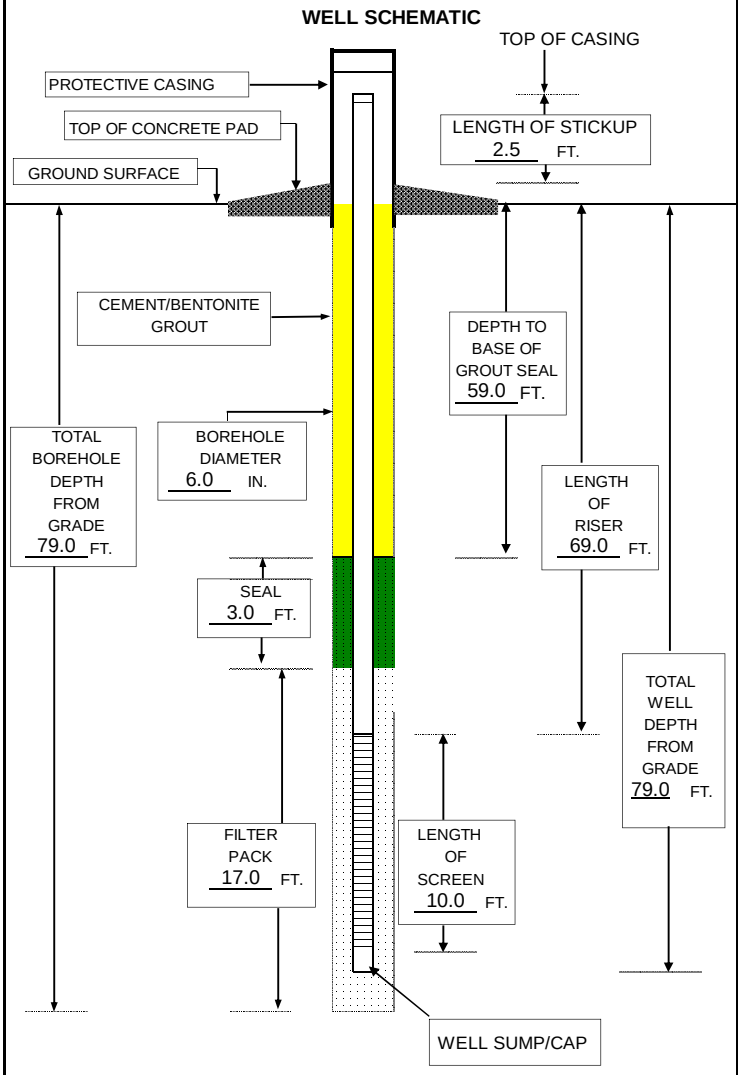
PROJECT NAME: Scott Creek Transfer Facility
ADDRESS: 1172 Mineral Springs Drive
Addie, NC 28779

TOP OF SLAB ELEVATION: 2304.8

WELL CONTRACTOR: Geologic Exploration, Inc

TOP OF CASING ELEVATION: 2307.3

WELL SCHEMATIC



ALL ELEVATIONS ARE IN FEET NGVD

CONSTRUCTION DATA

CASING INFORMATION

MATERIAL: [X] PVC [ ] STAINLESS [ ] CARBON
[ ] OTHER
DIAMETER: [X] 2" [ ] 4" [ ] 6"
[ ] OTHER ____ IN.
JOINTS: [X] THREADED [ ] WELDED
[ ] SCREWED [ ] COUPLED
[ ] OTHER
SCHEDULE: 40

SCREEN INFORMATION

MATERIAL: [X] PVC
[ ] STAINLESS
[ ] TEFLON
[ ] OTHER
DIAMETER: [X] 2"
[ ] 4"
[ ] 6"
[ ] OTHER ____ IN
SLOT: [X] 0.010
[ ] 0.020
[ ] OTHER ____ IN

CENTRALIZER: [ ] YES [X] NO
SHOW LOCATION OF CENTRALIZER(S) ON SCHEMATIC

FILTER PACK MATERIAL

20/40 SAND
OTHER [X] GP #1

SECONDARY FILTER PACK MATERIAL

SUGAR SAND [ ]
OTHER [ ]

BENTONITE WELL SEAL

[ ] 1/2-INCH PELLETS
[ ] 1/4-INCH PELLETS
[ ] CHIPS
[X] OTHER 3/8-inch hole plug

SURFACE PROTECTION

CONCRETE PAD: [X] 3'X3'
[ ] 4'X4'
[ ] OTHER ____ FT

WELL SUMP/CAP

[X] YES
[ ] NO
LENGTH 0.30 FT.

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APPENDIX B

BORING LOGS

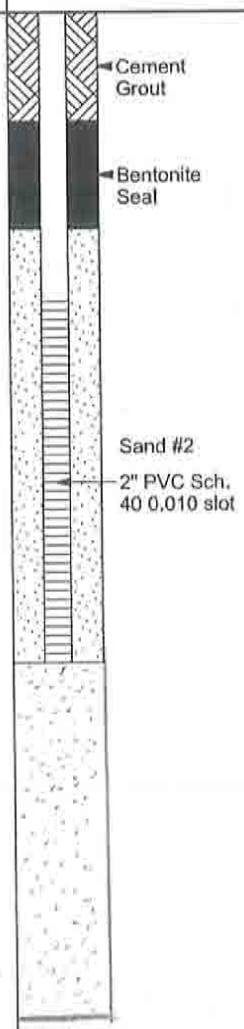
WELL NUMBER MW-01

ALTAMONT ENVIRONMENTAL, INC.
ENGINEERING & HYDROGEOLOGY

CLIENT Jackson County
PROJECT NAME Scott Creek Transfer Facility
PROJECT NUMBER 2040.4010
PROJECT LOCATION Sylva, NC
DATE STARTED 8/4/10 **COMPLETED** 8/4/10
GROUND ELEVATION ____ **HOLE SIZE** 4.25"
DRILLING CONTRACTOR Geologic Exploration
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe
AT TIME OF DRILLING 26.0 ft
LOGGED BY Amy Bondurant **CHECKED BY** Alec Macbeth
AT END OF DRILLING ---
NOTES Sunny and hot, 90's
AFTER DRILLING 12.0 ft

DEPTH (ft)	SAMPLE TYPE	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	FID (ppm)
0			CL-ML		FILL-sand and gravels, fill	
5	GB	Soil Sample MW01-5	ML		5.0 SILT-soft, dark brown to red, sandy clayey silt ML, few gravels, sub-angular to sub-rounded, damp to moist, trace woody debris	
10	GB	Soil Sample MW01-10	ML		10.0 SILT-saprolite, light yellow brown, micaceous, fine to medium grained sandy silt ML, moist	
15	GB	Soil Sample MW01-15	ML			
20		Total Well Depth= 18.0 ft bgs. Boring backfilled with 10 feet of sand.	ML		20.0 SILT-light brown to gray,micaceous, sandy silt ML, moist to wet	
25					28.0 Boring terminated at 28.0 feet.	

WELL DIAGRAM



GEN BH/TP/WELL 021510 SCOTTS CREEK TRANSFER STATION.GPJ GINT US.GDT 10/19/10

WELL NUMBER MW-02

ALTAMONT ENVIRONMENTAL, INC.
ENGINEERING & HYDROGEOLOGY

CLIENT Jackson County
PROJECT NAME Scott Creek Transfer Facility
PROJECT NUMBER 2040.4010
PROJECT LOCATION Sylva, NC
DATE STARTED 8/3/10 **COMPLETED** 8/5/10
GROUND ELEVATION ____ **HOLE SIZE** 6"
DRILLING CONTRACTOR Geologic Exploration
GROUND WATER LEVELS:
DRILLING METHOD Drilltech D25KW-Air Rig
AT TIME OF DRILLING 45.0 ft
LOGGED BY Robert Hastings **CHECKED BY** Amy Bondurant
AT END OF DRILLING ---
NOTES Sunny and hot, 90's
AFTER DRILLING 12.0 ft

DEPTH (ft)	SAMPLE TYPE	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	FID (ppm)	WELL DIAGRAM
0							
5		Begin drilling with air rig on 8/3/2010.	SC-SM		SAND- clayey sand SC-SM, abundant rock fragments and gravels, damp to moist		
10							
15					15.0 SAND-dark brown, fine to medium sand SP, more uniform cuttings, fewer rock fragments, moist		
20							
25			SP				
30							Cement Grout
35							

(Continued Next Page)

GEN BH/TP/WELL 021510 SCOTTS CREEK TRANSFER STATION.GPJ GINT US.GDT 10/19/10

ALTAMONT ENVIRONMENTAL, INC.
ENGINEERING & HYDROGEOLOGY

CLIENT Jackson County **PROJECT NAME** Scott Creek Transfer Facility
PROJECT NUMBER 2040.4010 **PROJECT LOCATION** Sylva, NC

DEPTH (ft)	SAMPLE TYPE	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	FID (ppm)	WELL DIAGRAM
35					SAND-dark brown, fine to medium sand SP, more uniform cuttings, fewer rock fragments, moist *(continued)*		
40			SP				
		Hole is making water. Stop drilling 8/3/2010. Begin drilling 8/4/2010 with 10.5-inch ID hollow stem augers (temporary casing) and advance to 54.0 ft bgs.					
45				45.0 ▽	SAND-wet, cut rock fragments		
50			SP				
		Begin drilling with air rig at 54.0 ft bgs on 8/4/2010.					
55				57.0	BEDROCK-Dunite, light brown to gray, wet, hard drilling		
60							
65							Bentonite Seal
		Set 8-inch surface casing to 69.0 ft bgs. Begin drilling with air rig on 8/5/2010.		69.0	Fracture at 76.0 ft bgs and 80.0 ft bgs		
70							
75							

(Continued Next Page)

ALTAMONT ENVIRONMENTAL, INC.
ENGINEERING & HYDROGEOLOGY

CLIENT Jackson County **PROJECT NAME** Scott Creek Transfer Facility
PROJECT NUMBER 2040.4010 **PROJECT LOCATION** Sylva, NC

DEPTH (ft)	SAMPLE TYPE	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	FID (ppm)	WELL DIAGRAM
75					Fracture at 76.0 ft bgs and 80.0 ft bgs *(continued)*		Sand #2 2" PVC Sch. 40 0.010 slot
80							
85					85.0		
					Boring terminated at 85.0 feet.		

WELL NUMBER MW-03

ALTAMONT ENVIRONMENTAL, INC.
ENGINEERING & HYDROGEOLOGY

CLIENT Jackson County
PROJECT NAME Scott Creek Transfer Facility
PROJECT NUMBER 2040.4010
PROJECT LOCATION Sylva, NC
DATE STARTED 8/4/10 **COMPLETED** 8/4/10
GROUND ELEVATION ____ **HOLE SIZE** 6"
DRILLING CONTRACTOR Geologic Exploration
GROUND WATER LEVELS:
DRILLING METHOD Drilltech D25KW-Air Rig
AT TIME OF DRILLING 76.0 ft
LOGGED BY Amy Bondurant **CHECKED BY** Alec Macbeth
AT END OF DRILLING ---
NOTES Sunny and hot, 90's
AFTER DRILLING 66.0 ft

DEPTH (ft)	SAMPLE TYPE	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	FID (ppm)	WELL DIAGRAM
0					FILL-orange red to brown, gravels with sand, some grass and topsoil, some silt		
3.0					SAND-light yellow brown, silty sand SM, trace clay, moist		
5	GB	Soil Sample MW03-5	SP-SM				
10	GB	Soil Sample MW03-10					
10.0					SILT-light yellow to light brown, micaceous, sandy silt ML, trace weathered quartz veins, trace relic structures, moist to wet		
15	AU	Soil Sample MW03-15	ML				
20							
20.0					SILT-light brown to red, micaceous, sandy clayey silt CL-ML, damp to moist		
25			CL-ML				
30							Cement Grout
35							
35.0							

(Continued Next Page)

GEN BH/TP/WELL 021510 SCOTTS CREEK TRANSFER STATION.GPJ GINT US.GDT 10/19/10

ALTAMONT ENVIRONMENTAL, INC.
ENGINEERING & HYDROGEOLOGY

WELL NUMBER MW-03

CLIENT Jackson County **PROJECT NAME** Scott Creek Transfer Facility
PROJECT NUMBER 2040.4010 **PROJECT LOCATION** Sylva, NC

DEPTH (ft)	SAMPLE TYPE	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	FID (ppm)	WELL DIAGRAM
35					SILT-light gray, sandy silt ML, weathered rock fragments, moist to wet		
40							
45							
50							
55							
60							Bentonite Seal
65							
70							Sand #2
75							2" PVC Sch. 40 0.010 slot

(Continued Next Page)

ALTAMONT ENVIRONMENTAL, INC.
ENGINEERING & HYDROGEOLOGY

CLIENT Jackson County **PROJECT NAME** Scott Creek Transfer Facility
PROJECT NUMBER 2040.4010 **PROJECT LOCATION** Sylva, NC

DEPTH (ft)	SAMPLE TYPE	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	FID (ppm)	WELL DIAGRAM
75			ML		SILT-light gray, sandy silt ML, weathered rock fragments, moist to wet *(continued)* 79.0		
					Boring terminated at 79.0 feet.		

APPENDIX C

WELL DEVELOPMENT LOGS

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Well Development Log

FACILITY NAME: Scotts Creek
LOCATION: Jackson Co.
FIELD PERSONNEL: A Bondurant

DATE: 08/10/10
ARRIVE TIME: 1544
WEATHER: cloudy + raining (90's)

WELL NUMBER: MW-01
WELL DIAMETER: 2"
TYPE OF CASING: PVC
MEASURING POINT: TOC
FLUSH MOUNT / STICK-UP 3.5'
COMMENTS:

WELL DEPTH IN FEET (WD): 18.0' START TIME: 1610
WATER LEVEL IN FEET (WL): 15.75' TOC - 12.5' bgs
LENGTH OF WATER COLUMN: ~~2.25~~ 5.5 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: ~~0.4~~ 0.93 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: ~~1.15~~ 2.8 GALLONS 5 volumes - ~~2 gall~~ 4.65
ACTUAL VOLUME DEVELOPED: 20 GALLONS

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

TIME	DEVELOPMENT METHOD	ESTIMATED FLOW RATE (gpm)	GALLONS PURGED	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	DEPTH TO WATER (feet TOC)
1611	pump	1 gpm	1	7.84	94	18.92	3.53	54.9	37.44	17.4
1614	"	1 gpm	4	7.41	90	14.54	3.15	74.3	40.94	18.6
1617	"	"	7	7.11	82	16.54	2.43	84.8	43.37	19.2
1620	"	~ 0.5 gpm	9.5	6.94	86	16.63	2.09	96.8	39.3	19.2
1623	"	~ 0.5 gpm	12.0	6.96	85	16.03	2.49	97.5	166.6	19.9
1626	"	"	14.5	6.94	85	16.06	2.50	94.9	109.8	19.9
1629	"	"	17	6.80	88	16.26	2.69	102.9	97.9	19.9

374.9
409.4
433.7
293.7

PROTECTIVE CASING: ✓ PAD: ✓ LOCK: ✓ VEGETATION: ✓ ACCESS: ✓

Field Personnel Signature: **Date:**

Comments:
wait for rain to stop before hooking up battery
13 volts

a lot of fines: highly micaceous
pumped ~6 volumes out

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

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Well Development Log

FACILITY NAME: Scotts Creek
LOCATION: Jackson Co
FIELD PERSONNEL: A Bonduran

DATE: 08/09/10
ARRIVE TIME: 1416
WEATHER: Cloudy + hot

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

WELL DEPTH IN FEET (WD): 85 START TIME: 1436
WATER LEVEL IN FEET (WL): 13.9
LENGTH OF WATER COLUMN: 71.1 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 12.1 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 36.3 GALLONS 5 vol = 60 gal
ACTUAL VOLUME DEVELOPED: ~70 GALLONS

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

TIME	DEVELOPMENT METHOD	ESTIMATED FLOW RATE (gpm)	GALLONS PURGED	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	DEPTH TO WATER (feet TOC)
1437	pump	~2gpm	2	8.40	116	17.19	6.00	17.7	95.01	15.5
1442	"	"	12	8.90	105	16.20	6.47	26.6	12.55	16.6
1447	"	"	22	8.75	102	15.65	7.33	21.9	8.35	16.75
1452	"	"	32	8.46	95	15.64	6.55	32.0	7.53	16.75
1457	"	"	42	8.23	94	15.60	7.36	25.8	6.50	16.70
1502	"	"	52	8.05	95	15.65	7.71	32.3	5.85	16.50
1507	"	"	62	7.89	94	15.48	7.26	35.1	4.38	16.45
1512	"	1.5	~~72~~ 67 AB	7.85	95	15.50	7.30	32.3	2.25	16.00

PROTECTIVE CASING: ✓ PAD: ✓ LOCK: ✓ VEGETATION: none ACCESS: good

Field Personnel Signature: AB Date: 8/9/2010

Comments:

25.0 volts

put pump @ bottom pulled up 3.0'

1451 - pulled pump up 13.0'

1531 - off-site AB

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

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Well Development Log

FACILITY NAME: Scotts Creek
LOCATION: Jackson Co.
FIELD PERSONNEL: A Bonderant

DATE: 8/10/10
ARRIVE TIME: 1350
WEATHER: hot + cloudy (90s)

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

WELL DEPTH IN FEET (WD): 79.0 START TIME: ~~1414~~ 1451
WATER LEVEL IN FEET (WL): 66.5
LENGTH OF WATER COLUMN: 12.5 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 2.1 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 6.4 GALLONS 5 vol. = 10
ACTUAL VOLUME DEVELOPED: ~11 GALLONS

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

TIME	DEVELOPMENT METHOD	ESTIMATED FLOW RATE (gpm)	GALLONS PURGED	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	DEPTH TO WATER (feet TOC)
1452	pump	1 gpm	1	7.09	302	16.98	5.17	2.0	1013	75.7
1455	"	~1 gpm	~5	7.55	232	18.83	3.86	19.9	829.9	77.0
1506	"	.5 gpm	6	7.29	236	18.09	4.25	40.2	702.3	76.0
1517	"	1 gpm	7	7.20	262	18.15	4.70	46.8	500.1	69.0
1522	"	~1 gpm	9	7.43	274	19.60	4.86	67.9	244.8	71.0
1527	"	~1 gpm	11	7.45	273	19.70	4.68	66.5	106.8	77.0

PROTECTIVE CASING: ✓ PAD: ✓ LOCK: ✓ VEGETATION: ✓ ACCESS: ✓

Field Personnel Signature: AB Date: 08/10/10

Comments:
1421 - issue w/pump trouble shoot
replace motor

1455 - ~~went~~ 3.5 gal pumped out; well dry turn off pump
AB wait for re-charge

1458 pump back on
1510 pump off
1513 pump on DTW 69.0' ~~by~~ TOC

~13 min = ~10' of water

Slow re-charge lots of fines

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

APPENDIX D

GROUNDWATER SAMPLING LOGS

ALTAMONT ENVIRONMENTAL, INC.
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TEL.828.281.3350 FAX.828.281.3351
WWW.ALTAMONTENVIRONMENTAL.COM

Equipment Documentation & Instrument Calibration Data Sheet

Project Name: Scotts Creek Transfer Facility
Project Number: 2040.4D10
Project Location: Jackson Co.

Calibration Documentation
Person Conducting Calibration: A Bordurant
Date of Calibration: 08/19/10
Date of Field Measurements: 08/19/10

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

Equipment Type	Serial Number	Brand	Date of Use
150-ft Water Level	26154	Solinist	
150-ft Water Level	22754	Solinist	
150-ft Water Level	150	Testwell	
150-ft Drawdown	MP30-1527	QED	08/19/10
Other			

Micro TPW Turbidity Meter

Calibration Standards Exp Date	Instrument Serial #	Instrument Reading 0.02 NTU	10.0 NTU	1000 NTU
Aug. 2011	200601045	Initial: 0.02	Initial: 7.59	Initial: 936.6
		Cal: 0.01	Cal: 10.08	Cal: 1000
		Time: 810	Time: 810	Time: 810

YSI 556 Multiparameter Meter

Instrument Serial Number	07D100979						
Instrument Readings							Calibration Expiration Date
Dissolved Oxygen	Initial: 5.08	Cal: 8.06	mmHg: 705.5	Time: 849			NA
QC*	AM Time:	Meas:	Mid Day Time:	Check:	PM Time:	Check:	NA
pH 7 S.U. *report to 0.1 S.U.*	Initial: ~~4.10~~ 7.00	Cal: ~~4.17~~ 7.00	Time: 810				9/2010
pH 4 S.U. *report to 0.1 S.U.*	Initial: 4.18	Cal: 4.00	Time: 815				12/2010
pH 10 S.U. *report to 0.1 S.U.*	Initial: 10.24	Cal: 10.04	Time: 820				12/2010
QC* pH 7 S.U. *report to 0.1 S.U.*	AM Time: 827	Meas: 7.08	Mid Day Time:	Check:	PM Time: 518	Check: 8.46	~~1/2011~~
Spec. Cond. 447/84/23 mS**	Initial: 440	Cal: 447	Time: 807				JUN 2011
QC* 84 mS	AM Time: 827	Meas: 89	Mid Day Time:	Check:	PM Time:	Check:	
ORP 200 mV	Initial: 197.5	Cal: 200.0	Time: 822				01/2011

Comments:
Signature: Date: 08/19/10

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

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* Duplicate taken here
Dup 1 1224

Low-Flow Sampling Log

PROJECT NAME:	Swift Creek	PROJECT NUMBER:	2040 4010
LOCATION:	Jackson Co.	DATE:	08/19/10
SAMPLING PERSONNEL:	A Boudurant	WEATHER:	cloudy + hot

Well ID:	MW-01	Arrive at Well:	1139
Screen Interval:	18-8 bgs	Start Time:	1156
Depth to Water:	12.25 toc	Sample Time:	1223
Stickup:	3.25	Finish Sample Time:	1241
Depth of Pump Intake:	16.25 toc	Leave Well:	1300
Drawdown Set:	(AB) ~~16.55~~ 16.75 toc		

COMMENTS: very miraceous, turbid

Time	DTW (feet)	Temp (°C)	Specific Cond. (µS)	DO (mg/L)	pH (S.U.) *report to 0.1 S.U.*	ORP (mV)	Turbidity (NTU)
1159	16.55	23.67	516	6.58	6.86	120.0	553.6
1202	16.55	22.95	429	3.19	6.47	119.8	933.7
1205	16.55	22.98	407	2.11	6.29	121.1	498.5
1208	16.55	23.05	404	1.77	6.22	117.8	477.0
1211	16.75	22.35	409	1.77	6.28	116.8	468.1
1214	16.75	21.19	420	1.63	6.17	116.2	388.1
1217	16.75	21.37	427	1.43	6.11	116.7	286.2
1220	16.75	21.48	424	1.30	6.15	116.9	203.9
1223	16.75	21.48	425	1.37	6.12	115.9	148.0

Time between recharge during sample collection: ~~1min @ 3CPM~~ (AB) 15 sec @ 3CPM

Sampling Personnel Signature: [signature] Date: 08/19/10

NOTES:

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

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

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

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3 VOAS
1 metal 250
1 chem

Low-Flow Sampling Log

PROJECT NAME: Swift Creek
PROJECT NUMBER: 2040.4010
LOCATION: Jackson Co.
DATE: 08/19/10
SAMPLING PERSONNEL: A Bondurant
WEATHER: cloudy, rainy, p. sunny, humid

Well ID: MW-02
Screen Interval: 85-75 bgs
Depth to Water: 13.60 toc
Stickup: 2.50
Depth of Pump Intake: 82.50 toc
Drawdown Set: 13.70 toc

Arrive at Well: 1316
Start Time: 1329
Sample Time: 1359
Finish Sample Time: 1405
Leave Well:

COMMENTS: Condensation on glass is affecting turbidity readings

Time	DTW (feet)	Temp (°C)	Specific Cond. (µS)	DO (mg/L)	pH (S.U.) *report to 0.1 S.U.*	ORP (mV)	Turbidity (NTU)
1332	13.70	20.08	484	6.77	10.85	-71.6	50.81
1335	13.70	18.42	491	7.24	10.84	-49.4	42.10
1338	13.70	18.04	474	7.06	10.71	-41.2	39.8
1341	13.70	17.74	444	7.14	10.54	-31.7	29.7
1344	13.70	17.60	407	7.32	10.39	-23.7	24.15
1347	13.70	17.53	396	7.42	10.36	-22.5	26.44
1350	13.70	17.47	380	7.51	10.32	-21.0	21.48
1353	13.70	17.27	370	7.94	10.24	-16.5	10.97
1356	13.70	17.14	369	7.84	10.20	-15.9	10.31
1359	13.70	17.10	368	7.87	10.19	-15.8	9.71

Time between recharge during sample collection: 10 sec @ 3LPM

Sampling Personnel Signature: [signature]
Date: 08/19/10

★ NOTES:
Not that pH is higher than when well was developed. Checked pH meter when back a office and pH read 8.64 in pH 7 buffer.

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

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

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

1023 130

1024 15

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Low-Flow Sampling Log

PROJECT NAME: Swifts Creek
PROJECT NUMBER: 2040.4010
LOCATION: Jackson Co.
DATE: 08/19/10
SAMPLING PERSONNEL: ABondurant
WEATHER: cloudy & hot

Well ID: MW-03
Screen Interval: 79-69 bgs
Depth to Water: 66.71 toc
Stickup: 2.55
Depth of Pump Intake: 76.55 toc
Drawdown Set: 67.40 toc

Arrive at Well: 954
Start Time: 1016
Sample Time: 1058
Finish Sample Time: 1105
Leave Well: 1133

COMMENTS: 1019 drawdown 67.00 recharge = 2 min @ 3CPM
1024 - drop drawdown to 67.50 TOC and 2CPM
67.40 2CPM 5 sec.

Time	DTW (feet)	Temp (°C)	Specific Cond. (µS)	DO (mg/L)	pH (S.U.) *report to 0.1 S.U.*	ORP (mV)	Turbidity (NTU)
1021	67.00	18.12	344	7.48	7.23	128.0	71.81
1024	67.10	16.49	345	5.87	7.17	122.8	>1100
1027	67.50	15.75	331	4.36	7.12	123.8	>1100
1030	67.40	16.00	318	3.20	7.03	127.4	>1100
1033	67.40	15.91	311	2.93	7.03	126.0	>1100
1036	67.40	16.22	304	2.72	7.10	118.2	>1100
1039	67.40	16.17	300	2.66	7.04	119.9	>1100
1042	67.40	16.33	294	2.84	6.97	123.0	980
1045	67.40	16.20	280	4.32	6.88	126.3	890
1048	67.40	16.16	278	3.95	6.86	126.5	795
1051	67.40	16.14	270	4.11	6.76	127.3	800
1054	67.40	16.12	269	4.16	6.76	127.5	780
1057	67.40	16.18	268	4.14	6.75	127.4	760

Time between recharge during sample collection: 2CPM @ 5sec

Sampling Personnel Signature: AB
Date: 08/19/10

NOTES:

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

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

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

APPENDIX E

SOIL SAMPLE ANALYTICAL REPORTS

Pace Analytical Services, Inc.
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(704)875-9092

August 19, 2010

Mr. Alec Macbeth
Altamont Environmental
231 Haywood Street
Asheville, NC 28801

RE: Project: SCOTTS CREEK 08/05
Pace Project No.: 9274976

Dear Mr. Macbeth:
Enclosed are the analytical results for sample(s) received by the laboratory on August 05, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

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

Sincerely,

Lorri Patton

Lorri Patton

lorri.patton@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: SCOTTS CREEK 08/05
Pace Project No.: 9274976

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Virginia Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031

Asheville Certification IDs

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

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ANALYTICAL RESULTS

Project: SCOTTS CREEK 08/05
Pace Project No.: 9274976

Sample: MW03-5 **Lab ID: 9274976001** Collected: 08/03/10 14:33 Received: 08/05/10 11:06 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	**5.1**	mg/kg	0.51	1	08/17/10 14:40	08/18/10 19:18	7440-36-0	
Arsenic	ND	mg/kg	0.51	1	08/17/10 14:40	08/18/10 19:18	7440-38-2	
Barium	**21.9**	mg/kg	0.51	1	08/17/10 14:40	08/18/10 19:18	7440-39-3	
Beryllium	**0.25**	mg/kg	0.10	1	08/17/10 14:40	08/18/10 19:18	7440-41-7	
Cadmium	**3.7**	mg/kg	0.10	1	08/17/10 14:40	08/18/10 19:18	7440-43-9	
Chromium	**124**	mg/kg	0.51	1	08/17/10 14:40	08/18/10 19:18	7440-47-3	
Cobalt	**95.0**	mg/kg	0.51	1	08/17/10 14:40	08/18/10 19:18	7440-48-4	
Copper	**23.4**	mg/kg	0.51	1	08/17/10 14:40	08/18/10 19:18	7440-50-8	
Iron	**48700**	mg/kg	253	50	08/17/10 14:40	08/19/10 13:20	7439-89-6	
Lead	**3.1**	mg/kg	0.51	1	08/17/10 14:40	08/18/10 19:18	7439-92-1	
Magnesium	**140000**	mg/kg	505	50	08/17/10 14:40	08/19/10 13:20	7439-95-4	
Nickel	**1830**	mg/kg	25.3	50	08/17/10 14:40	08/19/10 13:20	7440-02-0	
Selenium	**4.0**	mg/kg	1.0	1	08/17/10 14:40	08/18/10 19:18	7782-49-2	
Silver	ND	mg/kg	0.51	1	08/17/10 14:40	08/18/10 19:18	7440-22-4	
Thallium	ND	mg/kg	1.0	1	08/17/10 14:40	08/19/10 13:09	7440-28-0	
Vanadium	**4.0**	mg/kg	0.51	1	08/17/10 14:40	08/18/10 19:18	7440-62-2	
Zinc	**15.8**	mg/kg	1.0	1	08/17/10 14:40	08/18/10 19:18	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.0046	1	08/18/10 12:20	08/18/10 14:37	7439-97-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	94.2	1		08/10/10 23:17	67-64-1	
Acrylonitrile	ND	ug/kg	94.2	1		08/10/10 23:17	107-13-1	
Benzene	ND	ug/kg	4.7	1		08/10/10 23:17	71-43-2	
Bromochloromethane	ND	ug/kg	4.7	1		08/10/10 23:17	74-97-5	
Bromodichloromethane	ND	ug/kg	4.7	1		08/10/10 23:17	75-27-4	
Bromoform	ND	ug/kg	4.7	1		08/10/10 23:17	75-25-2	
Bromomethane	ND	ug/kg	9.4	1		08/10/10 23:17	74-83-9	
2-Butanone (MEK)	ND	ug/kg	94.2	1		08/10/10 23:17	78-93-3	
Carbon tetrachloride	ND	ug/kg	4.7	1		08/10/10 23:17	56-23-5	
Chlorobenzene	ND	ug/kg	4.7	1		08/10/10 23:17	108-90-7	
Chloroethane	ND	ug/kg	9.4	1		08/10/10 23:17	75-00-3	
Chloroform	ND	ug/kg	4.7	1		08/10/10 23:17	67-66-3	
Chloromethane	ND	ug/kg	9.4	1		08/10/10 23:17	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.7	1		08/10/10 23:17	96-12-8	
Dibromochloromethane	ND	ug/kg	4.7	1		08/10/10 23:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.7	1		08/10/10 23:17	106-93-4	
Dibromomethane	ND	ug/kg	4.7	1		08/10/10 23:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.7	1		08/10/10 23:17	95-50-1	
1,4-Dichlorobenzene	ND	ug/kg	4.7	1		08/10/10 23:17	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	4.7	1		08/10/10 23:17	110-57-6	
1,1-Dichloroethane	ND	ug/kg	4.7	1		08/10/10 23:17	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.7	1		08/10/10 23:17	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.7	1		08/10/10 23:17	75-35-4	

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ANALYTICAL RESULTS

Project: SCOTTS CREEK 08/05
Pace Project No.: 9274976

Sample: MW03-5 **Lab ID: 9274976001** Collected: 08/03/10 14:33 Received: 08/05/10 11:06 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
cis-1,2-Dichloroethene	ND	ug/kg	4.7	1		08/10/10 23:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.7	1		08/10/10 23:17	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.7	1		08/10/10 23:17	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.7	1		08/10/10 23:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.7	1		08/10/10 23:17	10061-02-6	
Ethylbenzene	ND	ug/kg	4.7	1		08/10/10 23:17	100-41-4	
2-Hexanone	ND	ug/kg	47.1	1		08/10/10 23:17	591-78-6	
Iodomethane	ND	ug/kg	9.4	1		08/10/10 23:17	74-88-4	
Methylene Chloride	ND	ug/kg	18.8	1		08/10/10 23:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	47.1	1		08/10/10 23:17	108-10-1	
Styrene	ND	ug/kg	4.7	1		08/10/10 23:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		08/10/10 23:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.7	1		08/10/10 23:17	79-34-5	
Tetrachloroethene	ND	ug/kg	4.7	1		08/10/10 23:17	127-18-4	
Toluene	ND	ug/kg	4.7	1		08/10/10 23:17	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.7	1		08/10/10 23:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.7	1		08/10/10 23:17	79-00-5	
Trichloroethene	ND	ug/kg	4.7	1		08/10/10 23:17	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.7	1		08/10/10 23:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.7	1		08/10/10 23:17	96-18-4	
Vinyl acetate	ND	ug/kg	47.1	1		08/10/10 23:17	108-05-4	
Vinyl chloride	ND	ug/kg	9.4	1		08/10/10 23:17	75-01-4	
Xylene (Total)	ND	ug/kg	9.4	1		08/10/10 23:17	1330-20-7	
m&p-Xylene	ND	ug/kg	9.4	1		08/10/10 23:17	179601-23-1	
o-Xylene	ND	ug/kg	4.7	1		08/10/10 23:17	95-47-6	
Dibromofluoromethane (S)	104	%	70-130	1		08/10/10 23:17	1868-53-7	
Toluene-d8 (S)	101	%	70-130	1		08/10/10 23:17	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130	1		08/10/10 23:17	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%	70-132	1		08/10/10 23:17	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**28.3**	%	0.10	1		08/06/10 14:53		

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ANALYTICAL RESULTS

Project: SCOTTS CREEK 08/05
Pace Project No.: 9274976

Sample: MW03-10 **Lab ID: 9274976002** Collected: 08/03/10 14:40 Received: 08/05/10 11:06 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	**6.2**	mg/kg	0.57	1	08/17/10 14:40	08/18/10 19:26	7440-36-0	
Arsenic	ND	mg/kg	0.57	1	08/17/10 14:40	08/18/10 19:26	7440-38-2	
Barium	**24.4**	mg/kg	0.57	1	08/17/10 14:40	08/18/10 19:26	7440-39-3	
Beryllium	**0.23**	mg/kg	0.11	1	08/17/10 14:40	08/18/10 19:26	7440-41-7	
Cadmium	**2.8**	mg/kg	0.11	1	08/17/10 14:40	08/18/10 19:26	7440-43-9	
Chromium	**147**	mg/kg	0.57	1	08/17/10 14:40	08/18/10 19:26	7440-47-3	
Cobalt	**93.0**	mg/kg	0.57	1	08/17/10 14:40	08/18/10 19:26	7440-48-4	
Copper	**25.4**	mg/kg	0.57	1	08/17/10 14:40	08/18/10 19:26	7440-50-8	
Iron	**44600**	mg/kg	284	50	08/17/10 14:40	08/19/10 13:27	7439-89-6	
Lead	**3.0**	mg/kg	0.57	1	08/17/10 14:40	08/18/10 19:26	7439-92-1	
Magnesium	**139000**	mg/kg	569	50	08/17/10 14:40	08/19/10 13:27	7439-95-4	
Nickel	**1140**	mg/kg	0.57	1	08/17/10 14:40	08/18/10 19:26	7440-02-0	
Selenium	**3.8**	mg/kg	1.1	1	08/17/10 14:40	08/18/10 19:26	7782-49-2	
Silver	ND	mg/kg	0.57	1	08/17/10 14:40	08/18/10 19:26	7440-22-4	
Thallium	ND	mg/kg	1.1	1	08/17/10 14:40	08/18/10 19:26	7440-28-0	
Vanadium	**7.1**	mg/kg	0.57	1	08/17/10 14:40	08/18/10 19:26	7440-62-2	
Zinc	**16.4**	mg/kg	1.1	1	08/17/10 14:40	08/18/10 19:26	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.0089**	mg/kg	0.0053	1	08/18/10 12:20	08/18/10 14:37	7439-97-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	70.2	1		08/10/10 23:36	67-64-1	
Acrylonitrile	ND	ug/kg	70.2	1		08/10/10 23:36	107-13-1	
Benzene	ND	ug/kg	3.5	1		08/10/10 23:36	71-43-2	
Bromochloromethane	ND	ug/kg	3.5	1		08/10/10 23:36	74-97-5	
Bromodichloromethane	ND	ug/kg	3.5	1		08/10/10 23:36	75-27-4	
Bromoform	ND	ug/kg	3.5	1		08/10/10 23:36	75-25-2	
Bromomethane	ND	ug/kg	7.0	1		08/10/10 23:36	74-83-9	
2-Butanone (MEK)	ND	ug/kg	70.2	1		08/10/10 23:36	78-93-3	
Carbon tetrachloride	ND	ug/kg	3.5	1		08/10/10 23:36	56-23-5	
Chlorobenzene	ND	ug/kg	3.5	1		08/10/10 23:36	108-90-7	
Chloroethane	ND	ug/kg	7.0	1		08/10/10 23:36	75-00-3	
Chloroform	ND	ug/kg	3.5	1		08/10/10 23:36	67-66-3	
Chloromethane	ND	ug/kg	7.0	1		08/10/10 23:36	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/kg	3.5	1		08/10/10 23:36	96-12-8	
Dibromochloromethane	ND	ug/kg	3.5	1		08/10/10 23:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.5	1		08/10/10 23:36	106-93-4	
Dibromomethane	ND	ug/kg	3.5	1		08/10/10 23:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.5	1		08/10/10 23:36	95-50-1	
1,4-Dichlorobenzene	ND	ug/kg	3.5	1		08/10/10 23:36	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	3.5	1		08/10/10 23:36	110-57-6	
1,1-Dichloroethane	ND	ug/kg	3.5	1		08/10/10 23:36	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.5	1		08/10/10 23:36	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.5	1		08/10/10 23:36	75-35-4	

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ANALYTICAL RESULTS

Project: SCOTTS CREEK 08/05
Pace Project No.: 9274976

Sample: MW03-10 **Lab ID: 9274976002** Collected: 08/03/10 14:40 Received: 08/05/10 11:06 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
cis-1,2-Dichloroethene	ND	ug/kg	3.5	1		08/10/10 23:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.5	1		08/10/10 23:36	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.5	1		08/10/10 23:36	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	3.5	1		08/10/10 23:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.5	1		08/10/10 23:36	10061-02-6	
Ethylbenzene	ND	ug/kg	3.5	1		08/10/10 23:36	100-41-4	
2-Hexanone	ND	ug/kg	35.1	1		08/10/10 23:36	591-78-6	
Iodomethane	ND	ug/kg	7.0	1		08/10/10 23:36	74-88-4	
Methylene Chloride	ND	ug/kg	14.0	1		08/10/10 23:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	35.1	1		08/10/10 23:36	108-10-1	
Styrene	ND	ug/kg	3.5	1		08/10/10 23:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.5	1		08/10/10 23:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.5	1		08/10/10 23:36	79-34-5	
Tetrachloroethene	ND	ug/kg	3.5	1		08/10/10 23:36	127-18-4	
Toluene	ND	ug/kg	3.5	1		08/10/10 23:36	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	3.5	1		08/10/10 23:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.5	1		08/10/10 23:36	79-00-5	
Trichloroethene	ND	ug/kg	3.5	1		08/10/10 23:36	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.5	1		08/10/10 23:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.5	1		08/10/10 23:36	96-18-4	
Vinyl acetate	ND	ug/kg	35.1	1		08/10/10 23:36	108-05-4	
Vinyl chloride	ND	ug/kg	7.0	1		08/10/10 23:36	75-01-4	
Xylene (Total)	ND	ug/kg	7.0	1		08/10/10 23:36	1330-20-7	
m&p-Xylene	ND	ug/kg	7.0	1		08/10/10 23:36	179601-23-1	
o-Xylene	ND	ug/kg	3.5	1		08/10/10 23:36	95-47-6	
Dibromofluoromethane (S)	150	%	70-130	1		08/10/10 23:36	1868-53-7	S3
Toluene-d8 (S)	99	%	70-130	1		08/10/10 23:36	2037-26-5	
4-Bromofluorobenzene (S)	90	%	70-130	1		08/10/10 23:36	460-00-4	
1,2-Dichloroethane-d4 (S)	165	%	70-132	1		08/10/10 23:36	17060-07-0	S3
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**18.6**	%	0.10	1		08/06/10 14:53		

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ANALYTICAL RESULTS

Project: SCOTTS CREEK 08/05
Pace Project No.: 9274976

Sample: MW03-15 **Lab ID: 9274976003** Collected: 08/03/10 14:46 Received: 08/05/10 11:06 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	**12.6**	mg/kg	0.38	1	08/17/10 14:40	08/18/10 19:43	7440-36-0	
Arsenic	ND	mg/kg	0.38	1	08/17/10 14:40	08/18/10 19:43	7440-38-2	
Barium	**31.1**	mg/kg	0.38	1	08/17/10 14:40	08/18/10 19:43	7440-39-3	
Beryllium	**0.39**	mg/kg	0.076	1	08/17/10 14:40	08/18/10 19:43	7440-41-7	
Cadmium	**5.1**	mg/kg	0.076	1	08/17/10 14:40	08/18/10 19:43	7440-43-9	
Chromium	**371**	mg/kg	0.38	1	08/17/10 14:40	08/18/10 19:43	7440-47-3	
Cobalt	**106**	mg/kg	0.38	1	08/17/10 14:40	08/18/10 19:43	7440-48-4	
Copper	**45.8**	mg/kg	0.38	1	08/17/10 14:40	08/18/10 19:43	7440-50-8	
Iron	**62100**	mg/kg	191	50	08/17/10 14:40	08/19/10 13:33	7439-89-6	
Lead	**5.1**	mg/kg	0.38	1	08/17/10 14:40	08/18/10 19:43	7439-92-1	
Magnesium	**60700**	mg/kg	382	50	08/17/10 14:40	08/19/10 13:33	7439-95-4	
Nickel	**1370**	mg/kg	19.1	50	08/17/10 14:40	08/19/10 13:33	7440-02-0	
Selenium	**1.7**	mg/kg	0.76	1	08/17/10 14:40	08/18/10 19:43	7782-49-2	
Silver	ND	mg/kg	0.38	1	08/17/10 14:40	08/18/10 19:43	7440-22-4	
Thallium	**0.87**	mg/kg	0.76	1	08/17/10 14:40	08/19/10 13:13	7440-28-0	
Vanadium	**26.3**	mg/kg	0.38	1	08/17/10 14:40	08/18/10 19:43	7440-62-2	
Zinc	**26.1**	mg/kg	0.76	1	08/17/10 14:40	08/18/10 19:43	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.049**	mg/kg	0.0060	1	08/18/10 12:20	08/18/10 14:37	7439-97-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	58.2	1		08/11/10 16:48	67-64-1	
Acrylonitrile	ND	ug/kg	58.2	1		08/11/10 16:48	107-13-1	
Benzene	ND	ug/kg	2.9	1		08/11/10 16:48	71-43-2	
Bromochloromethane	ND	ug/kg	2.9	1		08/11/10 16:48	74-97-5	
Bromodichloromethane	ND	ug/kg	2.9	1		08/11/10 16:48	75-27-4	
Bromoform	ND	ug/kg	2.9	1		08/11/10 16:48	75-25-2	
Bromomethane	ND	ug/kg	5.8	1		08/11/10 16:48	74-83-9	
2-Butanone (MEK)	ND	ug/kg	58.2	1		08/11/10 16:48	78-93-3	
Carbon tetrachloride	ND	ug/kg	2.9	1		08/11/10 16:48	56-23-5	
Chlorobenzene	ND	ug/kg	2.9	1		08/11/10 16:48	108-90-7	
Chloroethane	ND	ug/kg	5.8	1		08/11/10 16:48	75-00-3	
Chloroform	ND	ug/kg	2.9	1		08/11/10 16:48	67-66-3	
Chloromethane	ND	ug/kg	5.8	1		08/11/10 16:48	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/kg	2.9	1		08/11/10 16:48	96-12-8	
Dibromochloromethane	ND	ug/kg	2.9	1		08/11/10 16:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	2.9	1		08/11/10 16:48	106-93-4	
Dibromomethane	ND	ug/kg	2.9	1		08/11/10 16:48	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	2.9	1		08/11/10 16:48	95-50-1	
1,4-Dichlorobenzene	ND	ug/kg	2.9	1		08/11/10 16:48	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	2.9	1		08/11/10 16:48	110-57-6	
1,1-Dichloroethane	ND	ug/kg	2.9	1		08/11/10 16:48	75-34-3	
1,2-Dichloroethane	ND	ug/kg	2.9	1		08/11/10 16:48	107-06-2	
1,1-Dichloroethene	ND	ug/kg	2.9	1		08/11/10 16:48	75-35-4	

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ANALYTICAL RESULTS

Project: SCOTTS CREEK 08/05
Pace Project No.: 9274976

Sample: MW03-15 **Lab ID: 9274976003** Collected: 08/03/10 14:46 Received: 08/05/10 11:06 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
cis-1,2-Dichloroethene	ND	ug/kg	2.9	1		08/11/10 16:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	2.9	1		08/11/10 16:48	156-60-5	
1,2-Dichloropropane	ND	ug/kg	2.9	1		08/11/10 16:48	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	2.9	1		08/11/10 16:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	2.9	1		08/11/10 16:48	10061-02-6	
Ethylbenzene	ND	ug/kg	2.9	1		08/11/10 16:48	100-41-4	
2-Hexanone	ND	ug/kg	29.1	1		08/11/10 16:48	591-78-6	
Iodomethane	ND	ug/kg	5.8	1		08/11/10 16:48	74-88-4	
Methylene Chloride	ND	ug/kg	11.6	1		08/11/10 16:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	29.1	1		08/11/10 16:48	108-10-1	
Styrene	ND	ug/kg	2.9	1		08/11/10 16:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.9	1		08/11/10 16:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.9	1		08/11/10 16:48	79-34-5	
Tetrachloroethene	ND	ug/kg	2.9	1		08/11/10 16:48	127-18-4	
Toluene	ND	ug/kg	2.9	1		08/11/10 16:48	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	2.9	1		08/11/10 16:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	2.9	1		08/11/10 16:48	79-00-5	
Trichloroethene	ND	ug/kg	2.9	1		08/11/10 16:48	79-01-6	
Trichlorofluoromethane	ND	ug/kg	2.9	1		08/11/10 16:48	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	2.9	1		08/11/10 16:48	96-18-4	
Vinyl acetate	ND	ug/kg	29.1	1		08/11/10 16:48	108-05-4	
Vinyl chloride	ND	ug/kg	5.8	1		08/11/10 16:48	75-01-4	
Xylene (Total)	ND	ug/kg	5.8	1		08/11/10 16:48	1330-20-7	
m&p-Xylene	ND	ug/kg	5.8	1		08/11/10 16:48	179601-23-1	
o-Xylene	ND	ug/kg	2.9	1		08/11/10 16:48	95-47-6	
Dibromofluoromethane (S)	116	%	70-130	1		08/11/10 16:48	1868-53-7	
Toluene-d8 (S)	103	%	70-130	1		08/11/10 16:48	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130	1		08/11/10 16:48	460-00-4	
1,2-Dichloroethane-d4 (S)	135	%	70-132	1		08/11/10 16:48	17060-07-0	S3
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**24.0**	%	0.10	1		08/06/10 14:53		

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ANALYTICAL RESULTS

Project: SCOTTS CREEK 08/05
Pace Project No.: 9274976

Sample: MW01-5 **Lab ID: 9274976004** Collected: 08/04/10 10:17 Received: 08/05/10 11:06 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	**1.7**	mg/kg	0.69	1	08/17/10 14:40	08/18/10 19:47	7440-36-0	
Arsenic	**1.9**	mg/kg	0.69	1	08/17/10 14:40	08/18/10 19:47	7440-38-2	
Barium	**107**	mg/kg	0.69	1	08/17/10 14:40	08/18/10 19:47	7440-39-3	
Beryllium	**0.57**	mg/kg	0.14	1	08/17/10 14:40	08/18/10 19:47	7440-41-7	
Cadmium	**0.45**	mg/kg	0.14	1	08/17/10 14:40	08/18/10 19:47	7440-43-9	
Chromium	**39.8**	mg/kg	0.69	1	08/17/10 14:40	08/18/10 19:47	7440-47-3	
Cobalt	**17.8**	mg/kg	0.69	1	08/17/10 14:40	08/18/10 19:47	7440-48-4	
Copper	**25.8**	mg/kg	0.69	1	08/17/10 14:40	08/18/10 19:47	7440-50-8	
Iron	**13500**	mg/kg	6.9	1	08/17/10 14:40	08/18/10 19:47	7439-89-6	
Lead	**44.2**	mg/kg	0.69	1	08/17/10 14:40	08/18/10 19:47	7439-92-1	
Magnesium	**24200**	mg/kg	138	10	08/17/10 14:40	08/19/10 13:36	7439-95-4	
Nickel	**203**	mg/kg	0.69	1	08/17/10 14:40	08/18/10 19:47	7440-02-0	
Selenium	ND	mg/kg	1.4	1	08/17/10 14:40	08/18/10 19:47	7782-49-2	
Silver	ND	mg/kg	0.69	1	08/17/10 14:40	08/18/10 19:47	7440-22-4	
Thallium	ND	mg/kg	1.4	1	08/17/10 14:40	08/18/10 19:47	7440-28-0	
Vanadium	**27.1**	mg/kg	0.69	1	08/17/10 14:40	08/18/10 19:47	7440-62-2	
Zinc	**263**	mg/kg	1.4	1	08/17/10 14:40	08/18/10 19:47	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.054**	mg/kg	0.0069	1	08/18/10 12:20	08/18/10 14:37	7439-97-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	88.8	1		08/11/10 17:43	67-64-1	
Acrylonitrile	ND	ug/kg	88.8	1		08/11/10 17:43	107-13-1	
Benzene	ND	ug/kg	4.4	1		08/11/10 17:43	71-43-2	
Bromochloromethane	ND	ug/kg	4.4	1		08/11/10 17:43	74-97-5	
Bromodichloromethane	ND	ug/kg	4.4	1		08/11/10 17:43	75-27-4	
Bromoform	ND	ug/kg	4.4	1		08/11/10 17:43	75-25-2	
Bromomethane	ND	ug/kg	8.9	1		08/11/10 17:43	74-83-9	
2-Butanone (MEK)	ND	ug/kg	88.8	1		08/11/10 17:43	78-93-3	
Carbon tetrachloride	ND	ug/kg	4.4	1		08/11/10 17:43	56-23-5	
Chlorobenzene	ND	ug/kg	4.4	1		08/11/10 17:43	108-90-7	
Chloroethane	ND	ug/kg	8.9	1		08/11/10 17:43	75-00-3	
Chloroform	ND	ug/kg	4.4	1		08/11/10 17:43	67-66-3	
Chloromethane	ND	ug/kg	8.9	1		08/11/10 17:43	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.4	1		08/11/10 17:43	96-12-8	
Dibromochloromethane	ND	ug/kg	4.4	1		08/11/10 17:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.4	1		08/11/10 17:43	106-93-4	
Dibromomethane	ND	ug/kg	4.4	1		08/11/10 17:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.4	1		08/11/10 17:43	95-50-1	
1,4-Dichlorobenzene	ND	ug/kg	4.4	1		08/11/10 17:43	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	4.4	1		08/11/10 17:43	110-57-6	
1,1-Dichloroethane	ND	ug/kg	4.4	1		08/11/10 17:43	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.4	1		08/11/10 17:43	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.4	1		08/11/10 17:43	75-35-4	

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ANALYTICAL RESULTS

Project: SCOTTS CREEK 08/05
Pace Project No.: 9274976

Sample: MW01-5 **Lab ID: 9274976004** Collected: 08/04/10 10:17 Received: 08/05/10 11:06 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
cis-1,2-Dichloroethene	ND	ug/kg	4.4	1		08/11/10 17:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.4	1		08/11/10 17:43	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.4	1		08/11/10 17:43	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.4	1		08/11/10 17:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.4	1		08/11/10 17:43	10061-02-6	
Ethylbenzene	ND	ug/kg	4.4	1		08/11/10 17:43	100-41-4	
2-Hexanone	ND	ug/kg	44.4	1		08/11/10 17:43	591-78-6	
Iodomethane	ND	ug/kg	8.9	1		08/11/10 17:43	74-88-4	
Methylene Chloride	ND	ug/kg	17.8	1		08/11/10 17:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	44.4	1		08/11/10 17:43	108-10-1	
Styrene	ND	ug/kg	4.4	1		08/11/10 17:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.4	1		08/11/10 17:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.4	1		08/11/10 17:43	79-34-5	
Tetrachloroethene	ND	ug/kg	4.4	1		08/11/10 17:43	127-18-4	
Toluene	ND	ug/kg	4.4	1		08/11/10 17:43	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.4	1		08/11/10 17:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.4	1		08/11/10 17:43	79-00-5	
Trichloroethene	ND	ug/kg	4.4	1		08/11/10 17:43	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.4	1		08/11/10 17:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.4	1		08/11/10 17:43	96-18-4	
Vinyl acetate	ND	ug/kg	44.4	1		08/11/10 17:43	108-05-4	
Vinyl chloride	ND	ug/kg	8.9	1		08/11/10 17:43	75-01-4	
Xylene (Total)	ND	ug/kg	8.9	1		08/11/10 17:43	1330-20-7	
m&p-Xylene	ND	ug/kg	8.9	1		08/11/10 17:43	179601-23-1	
o-Xylene	ND	ug/kg	4.4	1		08/11/10 17:43	95-47-6	
Dibromofluoromethane (S)	107	%	70-130	1		08/11/10 17:43	1868-53-7	
Toluene-d8 (S)	99	%	70-130	1		08/11/10 17:43	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130	1		08/11/10 17:43	460-00-4	
1,2-Dichloroethane-d4 (S)	116	%	70-132	1		08/11/10 17:43	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**30.4**	%	0.10	1		08/06/10 14:54		

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ANALYTICAL RESULTS

Project: SCOTTS CREEK 08/05
Pace Project No.: 9274976

Sample: MW01-10 **Lab ID: 9274976005** Collected: 08/04/10 10:21 Received: 08/05/10 11:06 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	**0.53**	mg/kg	0.49	1	08/17/10 14:40	08/18/10 19:50	7440-36-0	
Arsenic	ND	mg/kg	0.49	1	08/17/10 14:40	08/18/10 19:50	7440-38-2	
Barium	**95.8**	mg/kg	0.49	1	08/17/10 14:40	08/18/10 19:50	7440-39-3	
Beryllium	**0.30**	mg/kg	0.098	1	08/17/10 14:40	08/18/10 19:50	7440-41-7	
Cadmium	**0.29**	mg/kg	0.098	1	08/17/10 14:40	08/18/10 19:50	7440-43-9	
Chromium	**12.5**	mg/kg	0.49	1	08/17/10 14:40	08/18/10 19:50	7440-47-3	
Cobalt	**9.0**	mg/kg	0.49	1	08/17/10 14:40	08/18/10 19:50	7440-48-4	
Copper	ND	mg/kg	0.49	1	08/17/10 14:40	08/18/10 19:50	7440-50-8	
Iron	**21800**	mg/kg	49.1	10	08/17/10 14:40	08/19/10 13:40	7439-89-6	
Lead	**2.7**	mg/kg	0.49	1	08/17/10 14:40	08/18/10 19:50	7439-92-1	
Magnesium	**3000**	mg/kg	9.8	1	08/17/10 14:40	08/18/10 19:50	7439-95-4	
Nickel	**8.8**	mg/kg	0.49	1	08/17/10 14:40	08/18/10 19:50	7440-02-0	
Selenium	ND	mg/kg	0.98	1	08/17/10 14:40	08/18/10 19:50	7782-49-2	
Silver	ND	mg/kg	0.49	1	08/17/10 14:40	08/18/10 19:50	7440-22-4	
Thallium	ND	mg/kg	0.98	1	08/17/10 14:40	08/18/10 19:50	7440-28-0	
Vanadium	**19.1**	mg/kg	0.49	1	08/17/10 14:40	08/18/10 19:50	7440-62-2	
Zinc	**16.9**	mg/kg	0.98	1	08/17/10 14:40	08/18/10 19:50	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.0044	1	08/18/10 12:20	08/18/10 14:37	7439-97-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	61.0	1		08/11/10 18:20	67-64-1	
Acrylonitrile	ND	ug/kg	61.0	1		08/11/10 18:20	107-13-1	
Benzene	ND	ug/kg	3.1	1		08/11/10 18:20	71-43-2	
Bromochloromethane	ND	ug/kg	3.1	1		08/11/10 18:20	74-97-5	
Bromodichloromethane	ND	ug/kg	3.1	1		08/11/10 18:20	75-27-4	
Bromoform	ND	ug/kg	3.1	1		08/11/10 18:20	75-25-2	
Bromomethane	ND	ug/kg	6.1	1		08/11/10 18:20	74-83-9	
2-Butanone (MEK)	ND	ug/kg	61.0	1		08/11/10 18:20	78-93-3	
Carbon tetrachloride	ND	ug/kg	3.1	1		08/11/10 18:20	56-23-5	
Chlorobenzene	ND	ug/kg	3.1	1		08/11/10 18:20	108-90-7	
Chloroethane	ND	ug/kg	6.1	1		08/11/10 18:20	75-00-3	
Chloroform	ND	ug/kg	3.1	1		08/11/10 18:20	67-66-3	
Chloromethane	ND	ug/kg	6.1	1		08/11/10 18:20	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/kg	3.1	1		08/11/10 18:20	96-12-8	
Dibromochloromethane	ND	ug/kg	3.1	1		08/11/10 18:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.1	1		08/11/10 18:20	106-93-4	
Dibromomethane	ND	ug/kg	3.1	1		08/11/10 18:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.1	1		08/11/10 18:20	95-50-1	
1,4-Dichlorobenzene	ND	ug/kg	3.1	1		08/11/10 18:20	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	3.1	1		08/11/10 18:20	110-57-6	
1,1-Dichloroethane	ND	ug/kg	3.1	1		08/11/10 18:20	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.1	1		08/11/10 18:20	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.1	1		08/11/10 18:20	75-35-4	

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ANALYTICAL RESULTS

Project: SCOTTS CREEK 08/05
Pace Project No.: 9274976

Sample: MW01-10 **Lab ID: 9274976005** Collected: 08/04/10 10:21 Received: 08/05/10 11:06 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
cis-1,2-Dichloroethene	ND	ug/kg	3.1	1		08/11/10 18:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.1	1		08/11/10 18:20	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.1	1		08/11/10 18:20	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	3.1	1		08/11/10 18:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.1	1		08/11/10 18:20	10061-02-6	
Ethylbenzene	ND	ug/kg	3.1	1		08/11/10 18:20	100-41-4	
2-Hexanone	ND	ug/kg	30.5	1		08/11/10 18:20	591-78-6	
Iodomethane	ND	ug/kg	6.1	1		08/11/10 18:20	74-88-4	
Methylene Chloride	ND	ug/kg	12.2	1		08/11/10 18:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	30.5	1		08/11/10 18:20	108-10-1	
Styrene	ND	ug/kg	3.1	1		08/11/10 18:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.1	1		08/11/10 18:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.1	1		08/11/10 18:20	79-34-5	
Tetrachloroethene	ND	ug/kg	3.1	1		08/11/10 18:20	127-18-4	
Toluene	ND	ug/kg	3.1	1		08/11/10 18:20	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	3.1	1		08/11/10 18:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.1	1		08/11/10 18:20	79-00-5	
Trichloroethene	ND	ug/kg	3.1	1		08/11/10 18:20	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.1	1		08/11/10 18:20	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.1	1		08/11/10 18:20	96-18-4	
Vinyl acetate	ND	ug/kg	30.5	1		08/11/10 18:20	108-05-4	
Vinyl chloride	ND	ug/kg	6.1	1		08/11/10 18:20	75-01-4	
Xylene (Total)	ND	ug/kg	6.1	1		08/11/10 18:20	1330-20-7	
m&p-Xylene	ND	ug/kg	6.1	1		08/11/10 18:20	179601-23-1	
o-Xylene	ND	ug/kg	3.1	1		08/11/10 18:20	95-47-6	
Dibromofluoromethane (S)	103	%	70-130	1		08/11/10 18:20	1868-53-7	
Toluene-d8 (S)	100	%	70-130	1		08/11/10 18:20	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130	1		08/11/10 18:20	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-132	1		08/11/10 18:20	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**12.2**	%	0.10	1		08/06/10 15:07		

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ANALYTICAL RESULTS

Project: SCOTTS CREEK 08/05
Pace Project No.: 9274976

Sample: MW01-15 **Lab ID: 9274976006** Collected: 08/04/10 10:25 Received: 08/05/10 11:06 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	1.1	2	08/17/10 14:40	08/19/10 12:47	7440-36-0	D3
Arsenic	**2.2**	mg/kg	1.1	2	08/17/10 14:40	08/19/10 12:47	7440-38-2	
Barium	**194**	mg/kg	1.1	2	08/17/10 14:40	08/19/10 12:47	7440-39-3	
Beryllium	**0.46**	mg/kg	0.22	2	08/17/10 14:40	08/19/10 12:47	7440-41-7	
Cadmium	**0.89**	mg/kg	0.22	2	08/17/10 14:40	08/19/10 12:47	7440-43-9	
Chromium	**27.1**	mg/kg	1.1	2	08/17/10 14:40	08/19/10 12:47	7440-47-3	
Cobalt	**26.4**	mg/kg	1.1	2	08/17/10 14:40	08/19/10 12:47	7440-48-4	
Copper	**14.9**	mg/kg	1.1	2	08/17/10 14:40	08/19/10 12:47	7440-50-8	
Iron	**41600**	mg/kg	55.1	10	08/17/10 14:40	08/19/10 14:01	7439-89-6	
Lead	**4.9**	mg/kg	1.1	2	08/17/10 14:40	08/19/10 12:47	7439-92-1	
Magnesium	**6560**	mg/kg	22.0	2	08/17/10 14:40	08/19/10 12:47	7439-95-4	
Nickel	**16.7**	mg/kg	1.1	2	08/17/10 14:40	08/19/10 12:47	7440-02-0	
Selenium	ND	mg/kg	2.2	2	08/17/10 14:40	08/19/10 12:47	7782-49-2	D3
Silver	ND	mg/kg	1.1	2	08/17/10 14:40	08/19/10 12:47	7440-22-4	D3
Thallium	ND	mg/kg	2.2	2	08/17/10 14:40	08/19/10 12:47	7440-28-0	D3
Vanadium	**41.6**	mg/kg	1.1	2	08/17/10 14:40	08/19/10 12:47	7440-62-2	
Zinc	**56.0**	mg/kg	2.2	2	08/17/10 14:40	08/19/10 12:47	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.0047	1	08/18/10 12:20	08/18/10 14:37	7439-97-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	75.2	1		08/11/10 18:39	67-64-1	
Acrylonitrile	ND	ug/kg	75.2	1		08/11/10 18:39	107-13-1	
Benzene	ND	ug/kg	3.8	1		08/11/10 18:39	71-43-2	
Bromochloromethane	ND	ug/kg	3.8	1		08/11/10 18:39	74-97-5	
Bromodichloromethane	ND	ug/kg	3.8	1		08/11/10 18:39	75-27-4	
Bromoform	ND	ug/kg	3.8	1		08/11/10 18:39	75-25-2	
Bromomethane	ND	ug/kg	7.5	1		08/11/10 18:39	74-83-9	
2-Butanone (MEK)	ND	ug/kg	75.2	1		08/11/10 18:39	78-93-3	
Carbon tetrachloride	ND	ug/kg	3.8	1		08/11/10 18:39	56-23-5	
Chlorobenzene	ND	ug/kg	3.8	1		08/11/10 18:39	108-90-7	
Chloroethane	ND	ug/kg	7.5	1		08/11/10 18:39	75-00-3	
Chloroform	ND	ug/kg	3.8	1		08/11/10 18:39	67-66-3	
Chloromethane	ND	ug/kg	7.5	1		08/11/10 18:39	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/kg	3.8	1		08/11/10 18:39	96-12-8	
Dibromochloromethane	ND	ug/kg	3.8	1		08/11/10 18:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.8	1		08/11/10 18:39	106-93-4	
Dibromomethane	ND	ug/kg	3.8	1		08/11/10 18:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.8	1		08/11/10 18:39	95-50-1	
1,4-Dichlorobenzene	ND	ug/kg	3.8	1		08/11/10 18:39	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	3.8	1		08/11/10 18:39	110-57-6	
1,1-Dichloroethane	ND	ug/kg	3.8	1		08/11/10 18:39	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.8	1		08/11/10 18:39	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.8	1		08/11/10 18:39	75-35-4	

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ANALYTICAL RESULTS

Project: SCOTTS CREEK 08/05
Pace Project No.: 9274976

Sample: MW01-15 **Lab ID: 9274976006** Collected: 08/04/10 10:25 Received: 08/05/10 11:06 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
cis-1,2-Dichloroethene	ND	ug/kg	3.8	1		08/11/10 18:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.8	1		08/11/10 18:39	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.8	1		08/11/10 18:39	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	3.8	1		08/11/10 18:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.8	1		08/11/10 18:39	10061-02-6	
Ethylbenzene	ND	ug/kg	3.8	1		08/11/10 18:39	100-41-4	
2-Hexanone	ND	ug/kg	37.6	1		08/11/10 18:39	591-78-6	
Iodomethane	ND	ug/kg	7.5	1		08/11/10 18:39	74-88-4	
Methylene Chloride	ND	ug/kg	15.0	1		08/11/10 18:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	37.6	1		08/11/10 18:39	108-10-1	
Styrene	ND	ug/kg	3.8	1		08/11/10 18:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.8	1		08/11/10 18:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.8	1		08/11/10 18:39	79-34-5	
Tetrachloroethene	ND	ug/kg	3.8	1		08/11/10 18:39	127-18-4	
Toluene	ND	ug/kg	3.8	1		08/11/10 18:39	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	3.8	1		08/11/10 18:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.8	1		08/11/10 18:39	79-00-5	
Trichloroethene	ND	ug/kg	3.8	1		08/11/10 18:39	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.8	1		08/11/10 18:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.8	1		08/11/10 18:39	96-18-4	
Vinyl acetate	ND	ug/kg	37.6	1		08/11/10 18:39	108-05-4	
Vinyl chloride	ND	ug/kg	7.5	1		08/11/10 18:39	75-01-4	
Xylene (Total)	ND	ug/kg	7.5	1		08/11/10 18:39	1330-20-7	
m&p-Xylene	ND	ug/kg	7.5	1		08/11/10 18:39	179601-23-1	
o-Xylene	ND	ug/kg	3.8	1		08/11/10 18:39	95-47-6	
Dibromofluoromethane (S)	110	%	70-130	1		08/11/10 18:39	1868-53-7	
Toluene-d8 (S)	98	%	70-130	1		08/11/10 18:39	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130	1		08/11/10 18:39	460-00-4	
1,2-Dichloroethane-d4 (S)	122	%	70-132	1		08/11/10 18:39	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**15.9**	%	0.10	1		08/06/10 15:08		

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ANALYTICAL RESULTS

Project: SCOTTS CREEK 08/05
Pace Project No.: 9274976

Sample: DUP1 **Lab ID: 9274976007** Collected: 08/04/10 10:25 Received: 08/05/10 11:06 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	2.2	5	08/17/10 14:40	08/19/10 12:51	7440-36-0	D3
Arsenic	**2.7**	mg/kg	2.2	5	08/17/10 14:40	08/19/10 12:51	7440-38-2	
Barium	**294**	mg/kg	2.2	5	08/17/10 14:40	08/19/10 12:51	7440-39-3	
Beryllium	**0.73**	mg/kg	0.44	5	08/17/10 14:40	08/19/10 12:51	7440-41-7	
Cadmium	**0.63**	mg/kg	0.44	5	08/17/10 14:40	08/19/10 12:51	7440-43-9	
Chromium	**45.3**	mg/kg	2.2	5	08/17/10 14:40	08/19/10 12:51	7440-47-3	
Cobalt	**45.3**	mg/kg	2.2	5	08/17/10 14:40	08/19/10 12:51	7440-48-4	
Copper	**42.3**	mg/kg	2.2	5	08/17/10 14:40	08/19/10 12:51	7440-50-8	
Iron	**42700**	mg/kg	22.0	5	08/17/10 14:40	08/19/10 12:51	7439-89-6	
Lead	**7.0**	mg/kg	2.2	5	08/17/10 14:40	08/19/10 12:51	7439-92-1	
Magnesium	**10700**	mg/kg	44.0	5	08/17/10 14:40	08/19/10 12:51	7439-95-4	
Nickel	**26.3**	mg/kg	2.2	5	08/17/10 14:40	08/19/10 12:51	7440-02-0	
Selenium	ND	mg/kg	4.4	5	08/17/10 14:40	08/19/10 12:51	7782-49-2	D3
Silver	ND	mg/kg	2.2	5	08/17/10 14:40	08/19/10 12:51	7440-22-4	D3
Thallium	ND	mg/kg	4.4	5	08/17/10 14:40	08/19/10 12:51	7440-28-0	D3
Vanadium	**65.1**	mg/kg	2.2	5	08/17/10 14:40	08/19/10 12:51	7440-62-2	
Zinc	**92.9**	mg/kg	4.4	5	08/17/10 14:40	08/19/10 12:51	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.0042	1	08/18/10 12:20	08/18/10 14:37	7439-97-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	66.3	1		08/11/10 18:57	67-64-1	
Acrylonitrile	ND	ug/kg	66.3	1		08/11/10 18:57	107-13-1	
Benzene	ND	ug/kg	3.3	1		08/11/10 18:57	71-43-2	
Bromochloromethane	ND	ug/kg	3.3	1		08/11/10 18:57	74-97-5	
Bromodichloromethane	ND	ug/kg	3.3	1		08/11/10 18:57	75-27-4	
Bromoform	ND	ug/kg	3.3	1		08/11/10 18:57	75-25-2	
Bromomethane	ND	ug/kg	6.6	1		08/11/10 18:57	74-83-9	
2-Butanone (MEK)	ND	ug/kg	66.3	1		08/11/10 18:57	78-93-3	
Carbon tetrachloride	ND	ug/kg	3.3	1		08/11/10 18:57	56-23-5	
Chlorobenzene	ND	ug/kg	3.3	1		08/11/10 18:57	108-90-7	
Chloroethane	ND	ug/kg	6.6	1		08/11/10 18:57	75-00-3	
Chloroform	ND	ug/kg	3.3	1		08/11/10 18:57	67-66-3	
Chloromethane	ND	ug/kg	6.6	1		08/11/10 18:57	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/kg	3.3	1		08/11/10 18:57	96-12-8	
Dibromochloromethane	ND	ug/kg	3.3	1		08/11/10 18:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.3	1		08/11/10 18:57	106-93-4	
Dibromomethane	ND	ug/kg	3.3	1		08/11/10 18:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.3	1		08/11/10 18:57	95-50-1	
1,4-Dichlorobenzene	ND	ug/kg	3.3	1		08/11/10 18:57	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	3.3	1		08/11/10 18:57	110-57-6	
1,1-Dichloroethane	ND	ug/kg	3.3	1		08/11/10 18:57	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.3	1		08/11/10 18:57	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.3	1		08/11/10 18:57	75-35-4	

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ANALYTICAL RESULTS

Project: SCOTTS CREEK 08/05
Pace Project No.: 9274976

Sample: DUP1 **Lab ID: 9274976007** Collected: 08/04/10 10:25 Received: 08/05/10 11:06 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
cis-1,2-Dichloroethene	ND	ug/kg	3.3	1		08/11/10 18:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.3	1		08/11/10 18:57	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.3	1		08/11/10 18:57	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	3.3	1		08/11/10 18:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.3	1		08/11/10 18:57	10061-02-6	
Ethylbenzene	ND	ug/kg	3.3	1		08/11/10 18:57	100-41-4	
2-Hexanone	ND	ug/kg	33.2	1		08/11/10 18:57	591-78-6	
Iodomethane	ND	ug/kg	6.6	1		08/11/10 18:57	74-88-4	
Methylene Chloride	ND	ug/kg	13.3	1		08/11/10 18:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	33.2	1		08/11/10 18:57	108-10-1	
Styrene	ND	ug/kg	3.3	1		08/11/10 18:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.3	1		08/11/10 18:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.3	1		08/11/10 18:57	79-34-5	
Tetrachloroethene	ND	ug/kg	3.3	1		08/11/10 18:57	127-18-4	
Toluene	ND	ug/kg	3.3	1		08/11/10 18:57	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	3.3	1		08/11/10 18:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.3	1		08/11/10 18:57	79-00-5	
Trichloroethene	ND	ug/kg	3.3	1		08/11/10 18:57	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.3	1		08/11/10 18:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.3	1		08/11/10 18:57	96-18-4	
Vinyl acetate	ND	ug/kg	33.2	1		08/11/10 18:57	108-05-4	
Vinyl chloride	ND	ug/kg	6.6	1		08/11/10 18:57	75-01-4	
Xylene (Total)	ND	ug/kg	6.6	1		08/11/10 18:57	1330-20-7	
m&p-Xylene	ND	ug/kg	6.6	1		08/11/10 18:57	179601-23-1	
o-Xylene	ND	ug/kg	3.3	1		08/11/10 18:57	95-47-6	
Dibromofluoromethane (S)	101	%	70-130	1		08/11/10 18:57	1868-53-7	
Toluene-d8 (S)	100	%	70-130	1		08/11/10 18:57	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130	1		08/11/10 18:57	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-132	1		08/11/10 18:57	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**17.7**	%	0.10	1		08/06/10 15:08		

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QUALITY CONTROL DATA

Project: SCOTTS CREEK 08/05
Pace Project No.: 9274976

QC Batch: MPRP/6877 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 9274976001, 9274976002, 9274976003, 9274976004, 9274976005, 9274976006, 9274976007

METHOD BLANK: 484038 Matrix: Solid
Associated Lab Samples: 9274976001, 9274976002, 9274976003, 9274976004, 9274976005, 9274976006, 9274976007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/kg	ND	0.50	08/18/10 19:12	
Arsenic	mg/kg	ND	0.50	08/18/10 19:12	
Barium	mg/kg	ND	0.50	08/18/10 19:12	
Beryllium	mg/kg	ND	0.10	08/18/10 19:12	
Cadmium	mg/kg	ND	0.10	08/18/10 19:12	
Chromium	mg/kg	ND	0.50	08/18/10 19:12	
Cobalt	mg/kg	ND	0.50	08/18/10 19:12	
Copper	mg/kg	ND	0.50	08/18/10 19:12	
Iron	mg/kg	6.6	5.0	08/18/10 19:12	P8
Lead	mg/kg	ND	0.50	08/18/10 19:12	
Magnesium	mg/kg	ND	10.0	08/18/10 19:12	
Nickel	mg/kg	ND	0.50	08/18/10 19:12	
Selenium	mg/kg	ND	1.0	08/18/10 19:12	
Silver	mg/kg	ND	0.50	08/18/10 19:12	
Thallium	mg/kg	ND	1.0	08/18/10 19:12	
Vanadium	mg/kg	ND	0.50	08/18/10 19:12	
Zinc	mg/kg	ND	1.0	08/18/10 19:12	

LABORATORY CONTROL SAMPLE: 484039

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/kg	50	50.8	102	80-120	
Arsenic	mg/kg	50	51.4	103	80-120	
Barium	mg/kg	50	52.0	104	80-120	
Beryllium	mg/kg	50	52.7	105	80-120	
Cadmium	mg/kg	50	52.7	105	80-120	
Chromium	mg/kg	50	52.1	104	80-120	
Cobalt	mg/kg	50	51.9	104	80-120	
Copper	mg/kg	50	51.5	103	80-120	
Iron	mg/kg	500	520	104	80-120	
Lead	mg/kg	50	52.2	104	80-120	
Magnesium	mg/kg	500	522	104	80-120	
Nickel	mg/kg	50	52.4	105	80-120	
Selenium	mg/kg	50	51.4	103	80-120	
Silver	mg/kg	25	25.6	102	80-120	
Thallium	mg/kg	50	49.9	100	80-120	
Vanadium	mg/kg	50	51.6	103	80-120	
Zinc	mg/kg	50	51.6	103	80-120	

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QUALITY CONTROL DATA

Project: SCOTTS CREEK 08/05
Pace Project No.: 9274976

MATRIX SPIKE SAMPLE: 484040

Parameter	Units	9274976001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	mg/kg	5.1	43.1	31.2	61	75-125	M0
Arsenic	mg/kg	ND	43.1	45.6	106	75-125	
Barium	mg/kg	21.9	43.1	66.3	103	75-125	
Beryllium	mg/kg	0.25	43.1	40.6	94	75-125	
Cadmium	mg/kg	3.7	43.1	42.6	90	75-125	
Chromium	mg/kg	124	43.1	152	65	75-125	M0
Cobalt	mg/kg	95.0	43.1	132	87	75-125	
Copper	mg/kg	23.4	43.1	69.6	107	75-125	
Iron	mg/kg	48700	431	50700	475	75-125	M0
Lead	mg/kg	3.1	43.1	38.0	81	75-125	
Magnesium	mg/kg	140000	431	163000	5423	75-125	M0
Nickel	mg/kg	1830	43.1	1950	270	75-125	M0
Selenium	mg/kg	4.0	43.1	45.9	97	75-125	
Silver	mg/kg	ND	21.5	25.2	116	75-125	
Thallium	mg/kg	ND	43.1	32.2	73	75-125	M0
Vanadium	mg/kg	4.0	43.1	46.8	100	75-125	
Zinc	mg/kg	15.8	43.1	62.3	108	75-125	

SAMPLE DUPLICATE: 484041

Parameter	Units	9274976002 Result	Dup Result	RPD	Qualifiers
Antimony	mg/kg	6.2	5.3	15	
Arsenic	mg/kg	ND	ND		
Barium	mg/kg	24.4	23.1	6	
Beryllium	mg/kg	0.23	0.21	7	
Cadmium	mg/kg	2.8	3.3	18	
Chromium	mg/kg	147	133	10	
Cobalt	mg/kg	93.0	76.1	20	
Copper	mg/kg	25.4	25.9	2	
Iron	mg/kg	44600	41700	7	
Lead	mg/kg	3.0	3.1	5	
Magnesium	mg/kg	139000	111000	22	R1
Nickel	mg/kg	1140	1260	11	
Selenium	mg/kg	3.8	2.9	25	R1
Silver	mg/kg	ND	.23J		
Thallium	mg/kg	ND	.41J		
Vanadium	mg/kg	7.1	7.3	2	
Zinc	mg/kg	16.4	16.4	0	

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QUALITY CONTROL DATA

Project: SCOTTS CREEK 08/05
Pace Project No.: 9274976

QC Batch: MERP/2961 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Associated Lab Samples: 9274976001, 9274976002, 9274976003, 9274976004, 9274976005, 9274976006, 9274976007

METHOD BLANK: 484502 Matrix: Solid
Associated Lab Samples: 9274976001, 9274976002, 9274976003, 9274976004, 9274976005, 9274976006, 9274976007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.0050	08/18/10 14:37	

LABORATORY CONTROL SAMPLE: 484503

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.067	0.059	89	80-120	

MATRIX SPIKE SAMPLE: 484504

Parameter	Units	9274976001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	ND	.085	0.077	86	75-125	

SAMPLE DUPLICATE: 484505

Parameter	Units	9274976002 Result	Dup Result	RPD	Qualifiers
Mercury	mg/kg	0.0089	0.0058	42	R1

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QUALITY CONTROL DATA

Project: SCOTTS CREEK 08/05
Pace Project No.: 9274976

QC Batch: MSV/11836
Analysis Method: EPA 8260
QC Batch Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 9274976001, 9274976002

METHOD BLANK: 480690
Matrix: Solid
Associated Lab Samples: 9274976001, 9274976002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	08/10/10 16:31	
1,1,1-Trichloroethane	ug/kg	ND	5.0	08/10/10 16:31	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	08/10/10 16:31	
1,1,2-Trichloroethane	ug/kg	ND	5.0	08/10/10 16:31	
1,1-Dichloroethane	ug/kg	ND	5.0	08/10/10 16:31	
1,1-Dichloroethene	ug/kg	ND	5.0	08/10/10 16:31	
1,2,3-Trichloropropane	ug/kg	ND	5.0	08/10/10 16:31	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	08/10/10 16:31	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	08/10/10 16:31	
1,2-Dichlorobenzene	ug/kg	ND	5.0	08/10/10 16:31	
1,2-Dichloroethane	ug/kg	ND	5.0	08/10/10 16:31	
1,2-Dichloropropane	ug/kg	ND	5.0	08/10/10 16:31	
1,4-Dichlorobenzene	ug/kg	ND	5.0	08/10/10 16:31	
2-Butanone (MEK)	ug/kg	ND	100	08/10/10 16:31	
2-Hexanone	ug/kg	ND	50.0	08/10/10 16:31	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	50.0	08/10/10 16:31	
Acetone	ug/kg	ND	100	08/10/10 16:31	
Acrylonitrile	ug/kg	ND	100	08/10/10 16:31	
Benzene	ug/kg	ND	5.0	08/10/10 16:31	
Bromochloromethane	ug/kg	ND	5.0	08/10/10 16:31	
Bromodichloromethane	ug/kg	ND	5.0	08/10/10 16:31	
Bromoform	ug/kg	ND	5.0	08/10/10 16:31	
Bromomethane	ug/kg	ND	10.0	08/10/10 16:31	
Carbon tetrachloride	ug/kg	ND	5.0	08/10/10 16:31	
Chlorobenzene	ug/kg	ND	5.0	08/10/10 16:31	
Chloroethane	ug/kg	ND	10.0	08/10/10 16:31	
Chloroform	ug/kg	ND	5.0	08/10/10 16:31	
Chloromethane	ug/kg	ND	10.0	08/10/10 16:31	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	08/10/10 16:31	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	08/10/10 16:31	
Dibromochloromethane	ug/kg	ND	5.0	08/10/10 16:31	
Dibromomethane	ug/kg	ND	5.0	08/10/10 16:31	
Ethylbenzene	ug/kg	ND	5.0	08/10/10 16:31	
Iodomethane	ug/kg	ND	10.0	08/10/10 16:31	
m&p-Xylene	ug/kg	ND	10.0	08/10/10 16:31	
Methylene Chloride	ug/kg	ND	20.0	08/10/10 16:31	
o-Xylene	ug/kg	ND	5.0	08/10/10 16:31	
Styrene	ug/kg	ND	5.0	08/10/10 16:31	
Tetrachloroethene	ug/kg	ND	5.0	08/10/10 16:31	
Toluene	ug/kg	ND	5.0	08/10/10 16:31	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	08/10/10 16:31	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	08/10/10 16:31	
trans-1,4-Dichloro-2-butene	ug/kg	ND	5.0	08/10/10 16:31	

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QUALITY CONTROL DATA

Project: SCOTTS CREEK 08/05
Pace Project No.: 9274976

METHOD BLANK: 480690 Matrix: Solid

Associated Lab Samples: 9274976001, 9274976002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichloroethene	ug/kg	ND	5.0	08/10/10 16:31	
Trichlorofluoromethane	ug/kg	ND	5.0	08/10/10 16:31	
Vinyl acetate	ug/kg	ND	50.0	08/10/10 16:31	
Vinyl chloride	ug/kg	ND	10.0	08/10/10 16:31	
Xylene (Total)	ug/kg	ND	10.0	08/10/10 16:31	
1,2-Dichloroethane-d4 (S)	%	100	70-132	08/10/10 16:31	
4-Bromofluorobenzene (S)	%	98	70-130	08/10/10 16:31	
Dibromofluoromethane (S)	%	99	70-130	08/10/10 16:31	
Toluene-d8 (S)	%	99	70-130	08/10/10 16:31	

METHOD BLANK: 481707 Matrix: Solid

Associated Lab Samples: 9274976001, 9274976002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	08/11/10 09:57	
1,1,1-Trichloroethane	ug/kg	ND	5.0	08/11/10 09:57	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	08/11/10 09:57	
1,1,2-Trichloroethane	ug/kg	ND	5.0	08/11/10 09:57	
1,1-Dichloroethane	ug/kg	ND	5.0	08/11/10 09:57	
1,1-Dichloroethene	ug/kg	ND	5.0	08/11/10 09:57	
1,2,3-Trichloropropane	ug/kg	ND	5.0	08/11/10 09:57	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	08/11/10 09:57	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	08/11/10 09:57	
1,2-Dichlorobenzene	ug/kg	ND	5.0	08/11/10 09:57	
1,2-Dichloroethane	ug/kg	ND	5.0	08/11/10 09:57	
1,2-Dichloropropane	ug/kg	ND	5.0	08/11/10 09:57	
1,4-Dichlorobenzene	ug/kg	ND	5.0	08/11/10 09:57	
2-Butanone (MEK)	ug/kg	ND	100	08/11/10 09:57	
2-Hexanone	ug/kg	ND	50.0	08/11/10 09:57	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	50.0	08/11/10 09:57	
Acetone	ug/kg	ND	100	08/11/10 09:57	
Acrylonitrile	ug/kg	ND	100	08/11/10 09:57	
Benzene	ug/kg	ND	5.0	08/11/10 09:57	
Bromochloromethane	ug/kg	ND	5.0	08/11/10 09:57	
Bromodichloromethane	ug/kg	ND	5.0	08/11/10 09:57	
Bromoform	ug/kg	ND	5.0	08/11/10 09:57	
Bromomethane	ug/kg	ND	10.0	08/11/10 09:57	
Carbon tetrachloride	ug/kg	ND	5.0	08/11/10 09:57	
Chlorobenzene	ug/kg	ND	5.0	08/11/10 09:57	
Chloroethane	ug/kg	ND	10.0	08/11/10 09:57	
Chloroform	ug/kg	ND	5.0	08/11/10 09:57	
Chloromethane	ug/kg	ND	10.0	08/11/10 09:57	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	08/11/10 09:57	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	08/11/10 09:57	
Dibromochloromethane	ug/kg	ND	5.0	08/11/10 09:57	

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QUALITY CONTROL DATA

Project: SCOTTS CREEK 08/05
Pace Project No.: 9274976

METHOD BLANK: 481707 Matrix: Solid

Associated Lab Samples: 9274976001, 9274976002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.0	08/11/10 09:57	
Ethylbenzene	ug/kg	ND	5.0	08/11/10 09:57	
Iodomethane	ug/kg	ND	10.0	08/11/10 09:57	
m&p-Xylene	ug/kg	ND	10.0	08/11/10 09:57	
Methylene Chloride	ug/kg	ND	20.0	08/11/10 09:57	
o-Xylene	ug/kg	ND	5.0	08/11/10 09:57	
Styrene	ug/kg	ND	5.0	08/11/10 09:57	
Tetrachloroethene	ug/kg	ND	5.0	08/11/10 09:57	
Toluene	ug/kg	ND	5.0	08/11/10 09:57	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	08/11/10 09:57	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	08/11/10 09:57	
trans-1,4-Dichloro-2-butene	ug/kg	ND	5.0	08/11/10 09:57	
Trichloroethene	ug/kg	ND	5.0	08/11/10 09:57	
Trichlorofluoromethane	ug/kg	ND	5.0	08/11/10 09:57	
Vinyl acetate	ug/kg	ND	50.0	08/11/10 09:57	
Vinyl chloride	ug/kg	ND	10.0	08/11/10 09:57	
Xylene (Total)	ug/kg	ND	10.0	08/11/10 09:57	
1,2-Dichloroethane-d4 (S)	%	102	70-132	08/11/10 09:57	
4-Bromofluorobenzene (S)	%	101	70-130	08/11/10 09:57	
Dibromofluoromethane (S)	%	99	70-130	08/11/10 09:57	
Toluene-d8 (S)	%	102	70-130	08/11/10 09:57	

LABORATORY CONTROL SAMPLE: 480691

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	50.6	101	70-131	
1,1,1-Trichloroethane	ug/kg	50	50.7	101	70-141	
1,1,2,2-Tetrachloroethane	ug/kg	50	51.2	102	70-130	
1,1,2-Trichloroethane	ug/kg	50	50.0	100	70-132	
1,1-Dichloroethane	ug/kg	50	50.7	101	70-143	
1,1-Dichloroethene	ug/kg	50	50.2	100	70-137	
1,2,3-Trichloropropane	ug/kg	50	47.6	95	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	50	49.7	99	68-141	
1,2-Dibromoethane (EDB)	ug/kg	50	49.6	99	70-130	
1,2-Dichlorobenzene	ug/kg	50	50.6	101	70-140	
1,2-Dichloroethane	ug/kg	50	49.9	100	70-137	
1,2-Dichloropropane	ug/kg	50	47.0	94	70-133	
1,4-Dichlorobenzene	ug/kg	50	50.7	101	70-142	
2-Butanone (MEK)	ug/kg	100	102	102	70-149	
2-Hexanone	ug/kg	100	101	101	70-149	
4-Methyl-2-pentanone (MIBK)	ug/kg	100	99.6	100	70-153	
Acetone	ug/kg	100	97.6J	98	70-157	
Acrylonitrile	ug/kg	250	253	101	70-130	
Benzene	ug/kg	50	49.2	98	70-130	
Bromochloromethane	ug/kg	50	47.8	96	70-149	

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QUALITY CONTROL DATA

Project: SCOTTS CREEK 08/05
Pace Project No.: 9274976

LABORATORY CONTROL SAMPLE: 480691

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/kg	50	49.4	99	70-130	
Bromoform	ug/kg	50	51.0	102	70-131	
Bromomethane	ug/kg	50	44.6	89	64-136	
Carbon tetrachloride	ug/kg	50	57.4	115	70-154	
Chlorobenzene	ug/kg	50	50.1	100	70-135	
Chloroethane	ug/kg	50	51.3	103	68-151	
Chloroform	ug/kg	50	49.8	100	70-130	
Chloromethane	ug/kg	50	55.4	111	70-132	
cis-1,2-Dichloroethene	ug/kg	50	49.8	100	70-140	
cis-1,3-Dichloropropene	ug/kg	50	48.2	96	70-137	
Dibromochloromethane	ug/kg	50	48.7	97	70-130	
Dibromomethane	ug/kg	50	51.6	103	70-136	
Ethylbenzene	ug/kg	50	51.3	103	70-137	
Iodomethane	ug/kg	100	89.7	90	70-130	
m&p-Xylene	ug/kg	100	105	105	70-140	
Methylene Chloride	ug/kg	50	40.7	81	70-133	
o-Xylene	ug/kg	50	51.9	104	70-141	
Styrene	ug/kg	50	50.6	101	70-138	
Tetrachloroethene	ug/kg	50	51.3	103	70-140	
Toluene	ug/kg	50	49.6	99	70-130	
trans-1,2-Dichloroethene	ug/kg	50	48.8	98	70-136	
trans-1,3-Dichloropropene	ug/kg	50	48.3	97	70-138	
trans-1,4-Dichloro-2-butene	ug/kg	50	50.3	101	70-130	
Trichloroethene	ug/kg	50	50.7	101	70-132	
Trichlorofluoromethane	ug/kg	50	54.4	109	69-134	
Vinyl acetate	ug/kg	100	142	142	24-161	
Vinyl chloride	ug/kg	50	53.1	106	55-140	
Xylene (Total)	ug/kg	150	156	104	70-141	
1,2-Dichloroethane-d4 (S)	%			98	70-132	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 480903

Parameter	Units	9275177002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/kg	ND	54.8	44.1	80	49-180	
Benzene	ug/kg	ND	54.8	43.7	80	50-166	
Chlorobenzene	ug/kg	ND	54.8	40.8	74	43-169	
Toluene	ug/kg	ND	54.8	43.0	78	52-163	
Trichloroethene	ug/kg	ND	54.8	44.2	81	49-167	
1,2-Dichloroethane-d4 (S)	%				102	70-132	
4-Bromofluorobenzene (S)	%				95	70-130	
Dibromofluoromethane (S)	%				98	70-130	
Toluene-d8 (S)	%				101	70-130	

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QUALITY CONTROL DATA

Project: SCOTTS CREEK 08/05
Pace Project No.: 9274976

SAMPLE DUPLICATE: 480904

Parameter	Units	9274976001 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,1-Trichloroethane	ug/kg	ND	ND		
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,2-Trichloroethane	ug/kg	ND	ND		
1,1-Dichloroethane	ug/kg	ND	ND		
1,1-Dichloroethene	ug/kg	ND	ND		
1,2,3-Trichloropropane	ug/kg	ND	ND		
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		
1,2-Dichlorobenzene	ug/kg	ND	ND		
1,2-Dichloroethane	ug/kg	ND	ND		
1,2-Dichloropropane	ug/kg	ND	ND		
1,4-Dichlorobenzene	ug/kg	ND	ND		
2-Butanone (MEK)	ug/kg	ND	ND		
2-Hexanone	ug/kg	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		
Acetone	ug/kg	ND	37.8J		
Acrylonitrile	ug/kg	ND	ND		
Benzene	ug/kg	ND	ND		
Bromochloromethane	ug/kg	ND	ND		
Bromodichloromethane	ug/kg	ND	ND		
Bromoform	ug/kg	ND	ND		
Bromomethane	ug/kg	ND	ND		
Carbon tetrachloride	ug/kg	ND	ND		
Chlorobenzene	ug/kg	ND	ND		
Chloroethane	ug/kg	ND	ND		
Chloroform	ug/kg	ND	ND		
Chloromethane	ug/kg	ND	ND		
cis-1,2-Dichloroethene	ug/kg	ND	ND		
cis-1,3-Dichloropropene	ug/kg	ND	ND		
Dibromochloromethane	ug/kg	ND	ND		
Dibromomethane	ug/kg	ND	ND		
Ethylbenzene	ug/kg	ND	ND		
Iodomethane	ug/kg	ND	ND		
m&p-Xylene	ug/kg	ND	ND		
Methylene Chloride	ug/kg	ND	ND		
o-Xylene	ug/kg	ND	ND		
Styrene	ug/kg	ND	ND		
Tetrachloroethene	ug/kg	ND	ND		
Toluene	ug/kg	ND	ND		
trans-1,2-Dichloroethene	ug/kg	ND	ND		
trans-1,3-Dichloropropene	ug/kg	ND	ND		
trans-1,4-Dichloro-2-butene	ug/kg	ND	ND		
Trichloroethene	ug/kg	ND	ND		
Trichlorofluoromethane	ug/kg	ND	ND		
Vinyl acetate	ug/kg	ND	ND		
Vinyl chloride	ug/kg	ND	ND		
Xylene (Total)	ug/kg	ND	ND		

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QUALITY CONTROL DATA

Project: SCOTTS CREEK 08/05
Pace Project No.: 9274976

SAMPLE DUPLICATE: 480904

Parameter	Units	9274976001 Result	Dup Result	RPD	Qualifiers
1,2-Dichloroethane-d4 (S)	%	115	123	24	
4-Bromofluorobenzene (S)	%	101	100	16	
Dibromofluoromethane (S)	%	104	110	22	
Toluene-d8 (S)	%	101	102	17	

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QUALITY CONTROL DATA

Project: SCOTTS CREEK 08/05
Pace Project No.: 9274976

QC Batch: MSV/11845 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 9274976003, 9274976004, 9274976005, 9274976006, 9274976007

METHOD BLANK: 481203 Matrix: Solid
Associated Lab Samples: 9274976003, 9274976004, 9274976005, 9274976006, 9274976007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	08/11/10 09:57	
1,1,1-Trichloroethane	ug/kg	ND	5.0	08/11/10 09:57	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	08/11/10 09:57	
1,1,2-Trichloroethane	ug/kg	ND	5.0	08/11/10 09:57	
1,1-Dichloroethane	ug/kg	ND	5.0	08/11/10 09:57	
1,1-Dichloroethene	ug/kg	ND	5.0	08/11/10 09:57	
1,2,3-Trichloropropane	ug/kg	ND	5.0	08/11/10 09:57	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	08/11/10 09:57	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	08/11/10 09:57	
1,2-Dichlorobenzene	ug/kg	ND	5.0	08/11/10 09:57	
1,2-Dichloroethane	ug/kg	ND	5.0	08/11/10 09:57	
1,2-Dichloropropane	ug/kg	ND	5.0	08/11/10 09:57	
1,4-Dichlorobenzene	ug/kg	ND	5.0	08/11/10 09:57	
2-Butanone (MEK)	ug/kg	ND	100	08/11/10 09:57	
2-Hexanone	ug/kg	ND	50.0	08/11/10 09:57	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	50.0	08/11/10 09:57	
Acetone	ug/kg	ND	100	08/11/10 09:57	
Acrylonitrile	ug/kg	ND	100	08/11/10 09:57	
Benzene	ug/kg	ND	5.0	08/11/10 09:57	
Bromochloromethane	ug/kg	ND	5.0	08/11/10 09:57	
Bromodichloromethane	ug/kg	ND	5.0	08/11/10 09:57	
Bromoform	ug/kg	ND	5.0	08/11/10 09:57	
Bromomethane	ug/kg	ND	10.0	08/11/10 09:57	
Carbon tetrachloride	ug/kg	ND	5.0	08/11/10 09:57	
Chlorobenzene	ug/kg	ND	5.0	08/11/10 09:57	
Chloroethane	ug/kg	ND	10.0	08/11/10 09:57	
Chloroform	ug/kg	ND	5.0	08/11/10 09:57	
Chloromethane	ug/kg	ND	10.0	08/11/10 09:57	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	08/11/10 09:57	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	08/11/10 09:57	
Dibromochloromethane	ug/kg	ND	5.0	08/11/10 09:57	
Dibromomethane	ug/kg	ND	5.0	08/11/10 09:57	
Ethylbenzene	ug/kg	ND	5.0	08/11/10 09:57	
Iodomethane	ug/kg	ND	10.0	08/11/10 09:57	
m&p-Xylene	ug/kg	ND	10.0	08/11/10 09:57	
Methylene Chloride	ug/kg	ND	20.0	08/11/10 09:57	
o-Xylene	ug/kg	ND	5.0	08/11/10 09:57	
Styrene	ug/kg	ND	5.0	08/11/10 09:57	
Tetrachloroethene	ug/kg	ND	5.0	08/11/10 09:57	
Toluene	ug/kg	ND	5.0	08/11/10 09:57	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	08/11/10 09:57	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	08/11/10 09:57	
trans-1,4-Dichloro-2-butene	ug/kg	ND	5.0	08/11/10 09:57	

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QUALITY CONTROL DATA

Project: SCOTTS CREEK 08/05
Pace Project No.: 9274976

METHOD BLANK: 481203 Matrix: Solid

Associated Lab Samples: 9274976003, 9274976004, 9274976005, 9274976006, 9274976007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichloroethene	ug/kg	ND	5.0	08/11/10 09:57	
Trichlorofluoromethane	ug/kg	ND	5.0	08/11/10 09:57	
Vinyl acetate	ug/kg	ND	50.0	08/11/10 09:57	
Vinyl chloride	ug/kg	ND	10.0	08/11/10 09:57	
Xylene (Total)	ug/kg	ND	10.0	08/11/10 09:57	
1,2-Dichloroethane-d4 (S)	%	102	70-132	08/11/10 09:57	
4-Bromofluorobenzene (S)	%	101	70-130	08/11/10 09:57	
Dibromofluoromethane (S)	%	99	70-130	08/11/10 09:57	
Toluene-d8 (S)	%	102	70-130	08/11/10 09:57	

LABORATORY CONTROL SAMPLE: 481204

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	45.9	92	70-131	
1,1,1-Trichloroethane	ug/kg	50	49.3	99	70-141	
1,1,2,2-Tetrachloroethane	ug/kg	50	46.7	93	70-130	
1,1,2-Trichloroethane	ug/kg	50	45.4	91	70-132	
1,1-Dichloroethane	ug/kg	50	48.6	97	70-143	
1,1-Dichloroethene	ug/kg	50	49.2	98	70-137	
1,2,3-Trichloropropane	ug/kg	50	43.6	87	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	50	45.0	90	68-141	
1,2-Dibromoethane (EDB)	ug/kg	50	44.3	89	70-130	
1,2-Dichlorobenzene	ug/kg	50	46.7	93	70-140	
1,2-Dichloroethane	ug/kg	50	47.8	96	70-137	
1,2-Dichloropropane	ug/kg	50	44.0	88	70-133	
1,4-Dichlorobenzene	ug/kg	50	47.6	95	70-142	
2-Butanone (MEK)	ug/kg	100	88.8J	89	70-149	
2-Hexanone	ug/kg	100	91.1	91	70-149	
4-Methyl-2-pentanone (MIBK)	ug/kg	100	88.8	89	70-153	
Acetone	ug/kg	100	92.7J	93	70-157	
Acrylonitrile	ug/kg	250	226	90	70-130	
Benzene	ug/kg	50	46.8	94	70-130	
Bromochloromethane	ug/kg	50	45.5	91	70-149	
Bromodichloromethane	ug/kg	50	47.0	94	70-130	
Bromoform	ug/kg	50	46.3	93	70-131	
Bromomethane	ug/kg	50	39.6	79	64-136	
Carbon tetrachloride	ug/kg	50	55.0	110	70-154	
Chlorobenzene	ug/kg	50	45.8	92	70-135	
Chloroethane	ug/kg	50	46.9	94	68-151	
Chloroform	ug/kg	50	48.2	96	70-130	
Chloromethane	ug/kg	50	52.9	106	70-132	
cis-1,2-Dichloroethene	ug/kg	50	46.9	94	70-140	
cis-1,3-Dichloropropene	ug/kg	50	45.1	90	70-137	
Dibromochloromethane	ug/kg	50	43.7	87	70-130	
Dibromomethane	ug/kg	50	47.3	95	70-136	

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QUALITY CONTROL DATA

Project: SCOTTS CREEK 08/05
Pace Project No.: 9274976

LABORATORY CONTROL SAMPLE: 481204

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethylbenzene	ug/kg	50	46.6	93	70-137	
Iodomethane	ug/kg	100	70.6	71	70-130	
m&p-Xylene	ug/kg	100	95.6	96	70-140	
Methylene Chloride	ug/kg	50	43.9	88	70-133	
o-Xylene	ug/kg	50	47.1	94	70-141	
Styrene	ug/kg	50	46.1	92	70-138	
Tetrachloroethene	ug/kg	50	48.1	96	70-140	
Toluene	ug/kg	50	46.4	93	70-130	
trans-1,2-Dichloroethene	ug/kg	50	46.8	94	70-136	
trans-1,3-Dichloropropene	ug/kg	50	45.2	90	70-138	
trans-1,4-Dichloro-2-butene	ug/kg	50	48.0	96	70-130	
Trichloroethene	ug/kg	50	48.2	96	70-132	
Trichlorofluoromethane	ug/kg	50	53.8	108	69-134	
Vinyl acetate	ug/kg	100	138	138	24-161	
Vinyl chloride	ug/kg	50	51.3	103	55-140	
Xylene (Total)	ug/kg	150	143	95	70-141	
1,2-Dichloroethane-d4 (S)	%			99	70-132	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			99	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE SAMPLE: 481918

Parameter	Units	9274978002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/kg	ND	44.8	36.5	81	49-180	
Benzene	ug/kg	ND	44.8	34.2	76	50-166	
Chlorobenzene	ug/kg	ND	44.8	30.4	68	43-169	
Toluene	ug/kg	ND	44.8	33.7	75	52-163	
Trichloroethene	ug/kg	ND	44.8	35.2	79	49-167	
1,2-Dichloroethane-d4 (S)	%				114	70-132	
4-Bromofluorobenzene (S)	%				99	70-130	
Dibromofluoromethane (S)	%				106	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 482806

Parameter	Units	9274978003 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,1-Trichloroethane	ug/kg	ND	ND		
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,2-Trichloroethane	ug/kg	ND	ND		
1,1-Dichloroethane	ug/kg	ND	ND		
1,1-Dichloroethene	ug/kg	ND	ND		
1,2,3-Trichloropropane	ug/kg	ND	ND		
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		

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QUALITY CONTROL DATA

Project: SCOTTS CREEK 08/05
Pace Project No.: 9274976

SAMPLE DUPLICATE: 482806

Parameter	Units	9274978003 Result	Dup Result	RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		
1,2-Dichlorobenzene	ug/kg	ND	ND		
1,2-Dichloroethane	ug/kg	ND	ND		
1,2-Dichloropropane	ug/kg	ND	ND		
1,4-Dichlorobenzene	ug/kg	ND	ND		
2-Butanone (MEK)	ug/kg	ND	ND		
2-Hexanone	ug/kg	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		
Acetone	ug/kg	ND	14J		
Acrylonitrile	ug/kg		ND		
Benzene	ug/kg	ND	ND		
Bromochloromethane	ug/kg	ND	ND		
Bromodichloromethane	ug/kg	ND	ND		
Bromoform	ug/kg	ND	ND		
Bromomethane	ug/kg	ND	ND		
Carbon tetrachloride	ug/kg	ND	ND		
Chlorobenzene	ug/kg	ND	ND		
Chloroethane	ug/kg	ND	ND		
Chloroform	ug/kg	ND	ND		
Chloromethane	ug/kg	ND	ND		
cis-1,2-Dichloroethene	ug/kg	ND	ND		
cis-1,3-Dichloropropene	ug/kg	ND	ND		
Dibromochloromethane	ug/kg	ND	ND		
Dibromomethane	ug/kg	ND	ND		
Ethylbenzene	ug/kg	ND	ND		
Iodomethane	ug/kg		ND		
m&p-Xylene	ug/kg	ND	ND		
Methylene Chloride	ug/kg	21.7	ND		
o-Xylene	ug/kg	ND	ND		
Styrene	ug/kg	ND	ND		
Tetrachloroethene	ug/kg	ND	ND		
Toluene	ug/kg	ND	ND		
trans-1,2-Dichloroethene	ug/kg	ND	ND		
trans-1,3-Dichloropropene	ug/kg	ND	ND		
trans-1,4-Dichloro-2-butene	ug/kg		ND		
Trichloroethene	ug/kg	ND	ND		
Trichlorofluoromethane	ug/kg	ND	ND		
Vinyl acetate	ug/kg	ND	ND		
Vinyl chloride	ug/kg	ND	ND		
Xylene (Total)	ug/kg	ND	ND		
1,2-Dichloroethane-d4 (S)	%	121	111	0	
4-Bromofluorobenzene (S)	%	98	99	9	
Dibromofluoromethane (S)	%	112	104	1	
Toluene-d8 (S)	%	100	101	10	

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QUALITY CONTROL DATA

Project: SCOTTS CREEK 08/05
Pace Project No.: 9274976

QC Batch: PMST/3326 | Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 | Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9274976005, 9274976006, 9274976007

SAMPLE DUPLICATE: 479214

Parameter	Units	9274874007 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	14.9	14.8	1	

SAMPLE DUPLICATE: 479317

Parameter	Units	9274747004 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	43.6	45.2	4	

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QUALITY CONTROL DATA

Project: SCOTTS CREEK 08/05
Pace Project No.: 9274976

QC Batch: PMST/3327 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9274976001, 9274976002, 9274976003, 9274976004

SAMPLE DUPLICATE: 479215

Parameter	Units	9274885001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	4.2	2.2	61	R1

SAMPLE DUPLICATE: 479216

Parameter	Units	9274978003 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	17.1	18.5	8	

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QUALIFIERS

Project: SCOTTS CREEK 08/05
Pace Project No.: 9274976

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.

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
P8	Analyte was detected in the method blank. All associated samples had concentrations of at least ten times greater than the blank or were below the reporting limit.
R1	RPD value was outside control limits.
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

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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

1410492

Section A Required Client Information:

Company: Altamont Environmental
Address: 231 Haywood St, Asheville NC 28801
Email To: amacbeth@altamontenvironmental.com
Phone: (828) 281-3350 Fax:
Requested Due Date/TAT: 2 weeks

Section B Required Project Information:

Report To: Alec Macbeth
Copy To: Amy Bonduraut
Purchase Order No.:
Project Name: Scotts Creek
Project Number: 2040.40

Section C Invoice Information:

Attention: Sue Brewer
Company Name: Altamont Environmental
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER SWS-DENR

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): 8260B/5035E; METALS 6010 by ICP

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 Y/N	8260B/5035E	METALS 6010 by ICP	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW03-5	SL	G			8/3/10	1433		5	X					X	X			X	X		9274976001
2	MW03-10	SL	G			8/3/10	1440		5	X					X	X			X	X		9274976002
3	MW03-15	SL	G			8/3/10	1446		5	X					X	X			X	X		9274976003
4	MW01-5	SL	G			8/4/10	1017		5	X					X	X			X	X		9274976004
5	MW01-10	SL	G			8/4/10	1021		5	X					X	X			X	X		9274976005
6	MW01-15	SL	G			8/4/10	1025		5	X					X	X			X	X		9274976006
7	DUP1	SL	G			8/4/10	1025		5	X					X	X			X	X		9274976007
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Evan Yurkanin / Altamont	8/5/10	1100	[signature]	8/5/10	1100	4.0	X	X	X

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

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Amy Bonduraut
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 8/4/10

*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

Sample Condition Upon Receipt

Pace Analytical

Client Name: Altamont Project # 9274976

Where Received: ☐ Huntersville ☑ Asheville ☐ Eden

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

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

Optional
Proj. Due Date:
Proj. Name:

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

Thermometer Used: IR Gun#2 / 14-648-44 Type of Ice: Wet Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor: Add / Subtract 0.5 C

Corrected Cooler Temp.: 4.0 C Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 8/5/10

		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: SL		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	L
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	Initial when completed
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: LP **Date:** 8/5/10

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

APPENDIX F

GROUNDWATER SAMPLE ANALYTICAL REPORTS

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October 19, 2010

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

RE: Project: SCOTTS CREEK 08/20
Pace Project No.: 9275985

Dear Mr. Lenk:
Enclosed are the analytical results for sample(s) received by the laboratory on August 19, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

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

Sincerely,

Lorri Patton

Lorri Patton

lorri.patton@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: SCOTTS CREEK 08/20
Pace Project No.: 9275985

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Virginia Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031

Asheville Certification IDs

2225 Riverside Dr., Asheville, NC 28804
Connecticut Certification #: PH-0106
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
New Jersey Certification #: NC011
North Carolina Bioassay Certification #: 9
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
Pennsylvania Certification #: 68-03578
South Carolina Bioassay Certification #: 99030002
South Carolina Certification #: 99030001
Virginia Certification #: 00072

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SAMPLE SUMMARY

Project: SCOTTS CREEK 08/20
Pace Project No.: 9275985

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9275985001	**MW-01**	Water	08/19/10 12:23	08/19/10 16:00
9275985002	**MW-02**	Water	08/19/10 13:59	08/19/10 16:00
9275985003	**MW-03**	Water	08/19/10 10:58	08/19/10 16:00
9275985004	**DUP 1**	Water	08/19/10 12:24	08/19/10 16:00
9275985005	**TRIP BLANK**	Water	08/19/10 00:00	08/19/10 16:00

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SAMPLE ANALYTE COUNT

Project: SCOTTS CREEK 08/20
Pace Project No.: 9275985

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9275985001	**MW-01**	EPA 6010	JMW	18	PASI-A
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	53	PASI-C
9275985002	**MW-02**	EPA 6010	JMW	18	PASI-A
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	53	PASI-C
9275985003	**MW-03**	EPA 6010	JMW	18	PASI-A
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	53	PASI-C
9275985004	**DUP 1**	EPA 6010	JMW	18	PASI-A
		EPA 7470	SHB	1	PASI-A
		EPA 8260	MCK	53	PASI-C
9275985005	**TRIP BLANK**	EPA 8260	MCK	53	PASI-C

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ANALYTICAL RESULTS

Project: SCOTTS CREEK 08/20
Pace Project No.: 9275985

Sample: MW-01 **Lab ID: 9275985001** Collected: 08/19/10 12:23 Received: 08/19/10 16:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	08/23/10 13:00	08/27/10 23:12	7440-36-0	
Arsenic	**3.7J**	ug/L	5.0	2.7	1	08/23/10 13:00	08/27/10 23:12	7440-38-2	
Barium	**199**	ug/L	5.0	0.20	1	08/23/10 13:00	08/27/10 23:12	7440-39-3	
Beryllium	**0.37J**	ug/L	1.0	0.10	1	08/23/10 13:00	08/27/10 23:12	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	08/23/10 13:00	08/27/10 23:12	7440-43-9	
Chromium	**7.6**	ug/L	5.0	0.40	1	08/23/10 13:00	08/27/10 23:12	7440-47-3	
Cobalt	**5.9**	ug/L	5.0	0.60	1	08/23/10 13:00	08/27/10 23:12	7440-48-4	
Copper	**2.3J**	ug/L	5.0	0.30	1	08/23/10 13:00	08/27/10 23:12	7440-50-8	
Iron	**6350**	ug/L	50.0	14.0	1	08/23/10 13:00	08/27/10 23:12	7439-89-6	
Lead	ND	ug/L	5.0	4.0	1	08/23/10 13:00	08/27/10 23:12	7439-92-1	
Magnesium	**21500**	ug/L	100	3.0	1	08/23/10 13:00	08/27/10 23:12	7439-95-4	
Manganese	**546**	ug/L	5.0	0.30	1	08/23/10 13:00	08/27/10 23:12	7439-96-5	
Nickel	**15.7**	ug/L	5.0	1.7	1	08/23/10 13:00	08/27/10 23:12	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	08/23/10 13:00	08/27/10 23:12	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	08/23/10 13:00	08/27/10 23:12	7440-22-4	
Thallium	ND	ug/L	5.4	3.0	1	08/23/10 13:00	08/27/10 23:12	7440-28-0	
Vanadium	**11.1**	ug/L	5.0	0.20	1	08/23/10 13:00	08/27/10 23:12	7440-62-2	
Zinc	**13.0**	ug/L	10.0	0.40	1	08/23/10 13:00	08/27/10 23:12	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.070	1	09/01/10 19:50	09/02/10 13:38	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		08/25/10 03:27	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		08/25/10 03:27	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		08/25/10 03:27	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		08/25/10 03:27	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/25/10 03:27	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		08/25/10 03:27	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		08/25/10 03:27	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		08/25/10 03:27	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		08/25/10 03:27	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/25/10 03:27	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		08/25/10 03:27	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		08/25/10 03:27	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		08/25/10 03:27	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/25/10 03:27	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		08/25/10 03:27	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		08/25/10 03:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/25/10 03:27	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		08/25/10 03:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		08/25/10 03:27	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/25/10 03:27	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		08/25/10 03:27	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		08/25/10 03:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/25/10 03:27	107-06-2	

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ANALYTICAL RESULTS

Project: SCOTTS CREEK 08/20
Pace Project No.: 9275985

Sample: MW-01 **Lab ID: 9275985001** Collected: 08/19/10 12:23 Received: 08/19/10 16:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		08/25/10 03:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		08/25/10 03:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		08/25/10 03:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/25/10 03:27	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/25/10 03:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/25/10 03:27	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/25/10 03:27	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		08/25/10 03:27	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		08/25/10 03:27	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		08/25/10 03:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		08/25/10 03:27	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		08/25/10 03:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		08/25/10 03:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		08/25/10 03:27	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/25/10 03:27	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/25/10 03:27	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/25/10 03:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/25/10 03:27	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/25/10 03:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/25/10 03:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/25/10 03:27	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		08/25/10 03:27	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/25/10 03:27	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		08/25/10 03:27	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/25/10 03:27	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		08/25/10 03:27	95-47-6	
4-Bromofluorobenzene (S)	98	%	70-130		1		08/25/10 03:27	460-00-4	
Dibromofluoromethane (S)	116	%	70-130		1		08/25/10 03:27	1868-53-7	
1,2-Dichloroethane-d4 (S)	120	%	70-130		1		08/25/10 03:27	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		08/25/10 03:27	2037-26-5	

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ANALYTICAL RESULTS

Project: SCOTTS CREEK 08/20
Pace Project No.: 9275985

Sample: MW-02 **Lab ID: 9275985002** Collected: 08/19/10 13:59 Received: 08/19/10 16:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	08/23/10 13:00	08/27/10 23:15	7440-36-0	
Arsenic	**3.8J**	ug/L	5.0	2.7	1	08/23/10 13:00	08/27/10 23:15	7440-38-2	
Barium	**268**	ug/L	5.0	0.20	1	08/23/10 13:00	08/27/10 23:15	7440-39-3	
Beryllium	**0.23J**	ug/L	1.0	0.10	1	08/23/10 13:00	08/27/10 23:15	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	08/23/10 13:00	08/27/10 23:15	7440-43-9	
Chromium	**9.2**	ug/L	5.0	0.40	1	08/23/10 13:00	08/27/10 23:15	7440-47-3	
Cobalt	ND	ug/L	5.0	0.60	1	08/23/10 13:00	08/27/10 23:15	7440-48-4	
Copper	**0.44J**	ug/L	5.0	0.30	1	08/23/10 13:00	08/27/10 23:15	7440-50-8	
Iron	**1190**	ug/L	50.0	14.0	1	08/23/10 13:00	08/27/10 23:15	7439-89-6	
Lead	ND	ug/L	5.0	4.0	1	08/23/10 13:00	08/27/10 23:15	7439-92-1	
Magnesium	**29100**	ug/L	100	3.0	1	08/23/10 13:00	08/27/10 23:15	7439-95-4	
Manganese	**22.6**	ug/L	5.0	0.30	1	08/23/10 13:00	08/27/10 23:15	7439-96-5	
Nickel	ND	ug/L	5.0	1.7	1	08/23/10 13:00	08/27/10 23:15	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	08/23/10 13:00	08/27/10 23:15	7782-49-2	
Silver	**0.64J**	ug/L	5.0	0.10	1	08/23/10 13:00	08/27/10 23:15	7440-22-4	
Thallium	ND	ug/L	5.4	3.0	1	08/23/10 13:00	08/27/10 23:15	7440-28-0	
Vanadium	**6.7**	ug/L	5.0	0.20	1	08/23/10 13:00	08/27/10 23:15	7440-62-2	
Zinc	**7.4J**	ug/L	10.0	0.40	1	08/23/10 13:00	08/27/10 23:15	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.071J**	ug/L	0.20	0.070	1	09/01/10 19:50	09/02/10 13:41	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	**2.7J**	ug/L	25.0	2.2	1		08/25/10 03:52	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		08/25/10 03:52	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		08/25/10 03:52	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		08/25/10 03:52	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/25/10 03:52	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		08/25/10 03:52	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		08/25/10 03:52	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		08/25/10 03:52	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		08/25/10 03:52	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/25/10 03:52	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		08/25/10 03:52	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		08/25/10 03:52	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		08/25/10 03:52	67-66-3	
Chloromethane	**0.14J**	ug/L	1.0	0.11	1		08/25/10 03:52	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		08/25/10 03:52	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		08/25/10 03:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/25/10 03:52	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		08/25/10 03:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		08/25/10 03:52	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/25/10 03:52	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		08/25/10 03:52	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		08/25/10 03:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/25/10 03:52	107-06-2	

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ANALYTICAL RESULTS

Project: SCOTTS CREEK 08/20
Pace Project No.: 9275985

Sample: MW-02 **Lab ID: 9275985002** Collected: 08/19/10 13:59 Received: 08/19/10 16:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		08/25/10 03:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		08/25/10 03:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		08/25/10 03:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/25/10 03:52	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/25/10 03:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/25/10 03:52	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/25/10 03:52	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		08/25/10 03:52	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		08/25/10 03:52	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		08/25/10 03:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		08/25/10 03:52	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		08/25/10 03:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		08/25/10 03:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		08/25/10 03:52	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/25/10 03:52	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/25/10 03:52	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/25/10 03:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/25/10 03:52	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/25/10 03:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/25/10 03:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/25/10 03:52	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		08/25/10 03:52	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/25/10 03:52	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		08/25/10 03:52	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/25/10 03:52	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		08/25/10 03:52	95-47-6	
4-Bromofluorobenzene (S)	100	%	70-130		1		08/25/10 03:52	460-00-4	
Dibromofluoromethane (S)	115	%	70-130		1		08/25/10 03:52	1868-53-7	
1,2-Dichloroethane-d4 (S)	117	%	70-130		1		08/25/10 03:52	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		08/25/10 03:52	2037-26-5	

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ANALYTICAL RESULTS

Project: SCOTTS CREEK 08/20
Pace Project No.: 9275985

Sample: MW-03 **Lab ID: 9275985003** Collected: 08/19/10 10:58 Received: 08/19/10 16:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	**27.3**	ug/L	5.0	2.6	1	08/23/10 13:00	08/27/10 23:18	7440-36-0	
Arsenic	**2.9J**	ug/L	5.0	2.7	1	08/23/10 13:00	08/27/10 23:18	7440-38-2	
Barium	**61.5**	ug/L	5.0	0.20	1	08/23/10 13:00	08/27/10 23:18	7440-39-3	
Beryllium	**0.63J**	ug/L	1.0	0.10	1	08/23/10 13:00	08/27/10 23:18	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	08/23/10 13:00	08/27/10 23:18	7440-43-9	
Chromium	**668**	ug/L	5.0	0.40	1	08/23/10 13:00	08/27/10 23:18	7440-47-3	
Cobalt	**137**	ug/L	5.0	0.60	1	08/23/10 13:00	08/27/10 23:18	7440-48-4	
Copper	**62.9**	ug/L	5.0	0.30	1	08/23/10 13:00	08/27/10 23:18	7440-50-8	
Iron	**54500**	ug/L	50.0	14.0	1	08/23/10 13:00	08/27/10 23:18	7439-89-6	
Lead	ND	ug/L	5.0	4.0	1	08/23/10 13:00	08/27/10 23:18	7439-92-1	
Magnesium	**115000**	ug/L	100	3.0	1	08/23/10 13:00	08/27/10 23:18	7439-95-4	
Manganese	**906**	ug/L	5.0	0.30	1	08/23/10 13:00	08/27/10 23:18	7439-96-5	
Nickel	**1880**	ug/L	5.0	1.7	1	08/23/10 13:00	08/27/10 23:18	7440-02-0	
Selenium	**8.9J**	ug/L	10.0	3.8	1	08/23/10 13:00	08/27/10 23:18	7782-49-2	
Silver	**0.49J**	ug/L	5.0	0.10	1	08/23/10 13:00	08/27/10 23:18	7440-22-4	
Thallium	ND	ug/L	5.4	3.0	1	08/23/10 13:00	08/27/10 23:18	7440-28-0	
Vanadium	**22.6**	ug/L	5.0	0.20	1	08/23/10 13:00	08/27/10 23:18	7440-62-2	
Zinc	**24.5**	ug/L	10.0	0.40	1	08/23/10 13:00	08/27/10 23:18	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.073J**	ug/L	0.20	0.070	1	09/01/10 19:50	09/02/10 13:44	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	**2.2J**	ug/L	25.0	2.2	1		08/25/10 04:18	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		08/25/10 04:18	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		08/25/10 04:18	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		08/25/10 04:18	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/25/10 04:18	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		08/25/10 04:18	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		08/25/10 04:18	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		08/25/10 04:18	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		08/25/10 04:18	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/25/10 04:18	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		08/25/10 04:18	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		08/25/10 04:18	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		08/25/10 04:18	67-66-3	
Chloromethane	**0.35J**	ug/L	1.0	0.11	1		08/25/10 04:18	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		08/25/10 04:18	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		08/25/10 04:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/25/10 04:18	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		08/25/10 04:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		08/25/10 04:18	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/25/10 04:18	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		08/25/10 04:18	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		08/25/10 04:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/25/10 04:18	107-06-2	

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ANALYTICAL RESULTS

Project: SCOTTS CREEK 08/20
Pace Project No.: 9275985

Sample: MW-03 **Lab ID: 9275985003** Collected: 08/19/10 10:58 Received: 08/19/10 16:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		08/25/10 04:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		08/25/10 04:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		08/25/10 04:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/25/10 04:18	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/25/10 04:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/25/10 04:18	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/25/10 04:18	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		08/25/10 04:18	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		08/25/10 04:18	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		08/25/10 04:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		08/25/10 04:18	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		08/25/10 04:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		08/25/10 04:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		08/25/10 04:18	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/25/10 04:18	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/25/10 04:18	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/25/10 04:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/25/10 04:18	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/25/10 04:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/25/10 04:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/25/10 04:18	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		08/25/10 04:18	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/25/10 04:18	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		08/25/10 04:18	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/25/10 04:18	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		08/25/10 04:18	95-47-6	
4-Bromofluorobenzene (S)	96	%	70-130		1		08/25/10 04:18	460-00-4	
Dibromofluoromethane (S)	115	%	70-130		1		08/25/10 04:18	1868-53-7	
1,2-Dichloroethane-d4 (S)	115	%	70-130		1		08/25/10 04:18	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		08/25/10 04:18	2037-26-5	

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ANALYTICAL RESULTS

Project: SCOTTS CREEK 08/20
Pace Project No.: 9275985

Sample: DUP 1 **Lab ID: 9275985004** Collected: 08/19/10 12:24 Received: 08/19/10 16:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	08/23/10 13:00	08/27/10 23:21	7440-36-0	
Arsenic	**3.3J**	ug/L	5.0	2.7	1	08/23/10 13:00	08/27/10 23:21	7440-38-2	
Barium	**195**	ug/L	5.0	0.20	1	08/23/10 13:00	08/27/10 23:21	7440-39-3	
Beryllium	**0.32J**	ug/L	1.0	0.10	1	08/23/10 13:00	08/27/10 23:21	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	08/23/10 13:00	08/27/10 23:21	7440-43-9	
Chromium	**7.6**	ug/L	5.0	0.40	1	08/23/10 13:00	08/27/10 23:21	7440-47-3	
Cobalt	**4.9J**	ug/L	5.0	0.60	1	08/23/10 13:00	08/27/10 23:21	7440-48-4	
Copper	**1.8J**	ug/L	5.0	0.30	1	08/23/10 13:00	08/27/10 23:21	7440-50-8	
Iron	**6060**	ug/L	50.0	14.0	1	08/23/10 13:00	08/27/10 23:21	7439-89-6	
Lead	ND	ug/L	5.0	4.0	1	08/23/10 13:00	08/27/10 23:21	7439-92-1	
Magnesium	**21500**	ug/L	100	3.0	1	08/23/10 13:00	08/27/10 23:21	7439-95-4	
Manganese	**529**	ug/L	5.0	0.30	1	08/23/10 13:00	08/27/10 23:21	7439-96-5	
Nickel	**13.7**	ug/L	5.0	1.7	1	08/23/10 13:00	08/27/10 23:21	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	08/23/10 13:00	08/27/10 23:21	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	08/23/10 13:00	08/27/10 23:21	7440-22-4	
Thallium	ND	ug/L	5.4	3.0	1	08/23/10 13:00	08/27/10 23:21	7440-28-0	
Vanadium	**10.4**	ug/L	5.0	0.20	1	08/23/10 13:00	08/27/10 23:21	7440-62-2	
Zinc	**10.1**	ug/L	10.0	0.40	1	08/23/10 13:00	08/27/10 23:21	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.070	1	09/01/10 19:50	09/02/10 13:46	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		08/25/10 04:43	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		08/25/10 04:43	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		08/25/10 04:43	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		08/25/10 04:43	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/25/10 04:43	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		08/25/10 04:43	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		08/25/10 04:43	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		08/25/10 04:43	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		08/25/10 04:43	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/25/10 04:43	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		08/25/10 04:43	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		08/25/10 04:43	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		08/25/10 04:43	67-66-3	
Chloromethane	**0.24J**	ug/L	1.0	0.11	1		08/25/10 04:43	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		08/25/10 04:43	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		08/25/10 04:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/25/10 04:43	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		08/25/10 04:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		08/25/10 04:43	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/25/10 04:43	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		08/25/10 04:43	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		08/25/10 04:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/25/10 04:43	107-06-2	

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ANALYTICAL RESULTS

Project: SCOTTS CREEK 08/20
Pace Project No.: 9275985

Sample: DUP 1 **Lab ID: 9275985004** Collected: 08/19/10 12:24 Received: 08/19/10 16:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		08/25/10 04:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		08/25/10 04:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		08/25/10 04:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/25/10 04:43	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/25/10 04:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/25/10 04:43	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/25/10 04:43	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		08/25/10 04:43	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		08/25/10 04:43	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		08/25/10 04:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		08/25/10 04:43	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		08/25/10 04:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		08/25/10 04:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		08/25/10 04:43	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/25/10 04:43	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/25/10 04:43	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/25/10 04:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/25/10 04:43	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/25/10 04:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/25/10 04:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/25/10 04:43	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		08/25/10 04:43	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/25/10 04:43	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		08/25/10 04:43	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/25/10 04:43	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		08/25/10 04:43	95-47-6	
4-Bromofluorobenzene (S)	96	%	70-130		1		08/25/10 04:43	460-00-4	
Dibromofluoromethane (S)	117	%	70-130		1		08/25/10 04:43	1868-53-7	
1,2-Dichloroethane-d4 (S)	119	%	70-130		1		08/25/10 04:43	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		08/25/10 04:43	2037-26-5	

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ANALYTICAL RESULTS

Project: SCOTTS CREEK 08/20
Pace Project No.: 9275985

Sample: TRIP BLANK **Lab ID: 9275985005** Collected: 08/19/10 00:00 Received: 08/19/10 16:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	**10.5J**	ug/L	25.0	2.2	1		08/25/10 01:20	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		08/25/10 01:20	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		08/25/10 01:20	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		08/25/10 01:20	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/25/10 01:20	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		08/25/10 01:20	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		08/25/10 01:20	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		08/25/10 01:20	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		08/25/10 01:20	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/25/10 01:20	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		08/25/10 01:20	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		08/25/10 01:20	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		08/25/10 01:20	67-66-3	
Chloromethane	**0.19J**	ug/L	1.0	0.11	1		08/25/10 01:20	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		08/25/10 01:20	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		08/25/10 01:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/25/10 01:20	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		08/25/10 01:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		08/25/10 01:20	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/25/10 01:20	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		08/25/10 01:20	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		08/25/10 01:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/25/10 01:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		08/25/10 01:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		08/25/10 01:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		08/25/10 01:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/25/10 01:20	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/25/10 01:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/25/10 01:20	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/25/10 01:20	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		08/25/10 01:20	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		08/25/10 01:20	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		08/25/10 01:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		08/25/10 01:20	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		08/25/10 01:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		08/25/10 01:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		08/25/10 01:20	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/25/10 01:20	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/25/10 01:20	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/25/10 01:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/25/10 01:20	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/25/10 01:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/25/10 01:20	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/25/10 01:20	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		08/25/10 01:20	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/25/10 01:20	75-01-4	

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ANALYTICAL RESULTS

Project: SCOTTS CREEK 08/20
Pace Project No.: 9275985

Sample: TRIP BLANK **Lab ID: 9275985005** Collected: 08/19/10 00:00 Received: 08/19/10 16:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Xylene (Total)	ND	ug/L	2.0	0.66	1		08/25/10 01:20	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/25/10 01:20	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		08/25/10 01:20	95-47-6	
4-Bromofluorobenzene (S)	96	%	70-130		1		08/25/10 01:20	460-00-4	
Dibromofluoromethane (S)	116	%	70-130		1		08/25/10 01:20	1868-53-7	
1,2-Dichloroethane-d4 (S)	113	%	70-130		1		08/25/10 01:20	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		08/25/10 01:20	2037-26-5	

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QUALITY CONTROL DATA

Project: SCOTTS CREEK 08/20
Pace Project No.: 9275985

QC Batch: MPRP/6917 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 9275985001, 9275985002, 9275985003, 9275985004

METHOD BLANK: 487021 Matrix: Water
Associated Lab Samples: 9275985001, 9275985002, 9275985003, 9275985004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	08/27/10 22:06	
Arsenic	ug/L	ND	5.0	08/27/10 22:06	
Barium	ug/L	ND	5.0	08/27/10 22:06	
Beryllium	ug/L	0.23J	1.0	08/27/10 22:06	
Cadmium	ug/L	ND	1.0	08/27/10 22:06	
Chromium	ug/L	ND	5.0	08/27/10 22:06	
Cobalt	ug/L	ND	5.0	08/27/10 22:06	
Copper	ug/L	ND	5.0	08/27/10 22:06	
Iron	ug/L	ND	50.0	08/27/10 22:06	
Lead	ug/L	ND	5.0	08/27/10 22:06	
Manganese	ug/L	ND	5.0	08/27/10 22:06	
Nickel	ug/L	ND	5.0	08/27/10 22:06	
Selenium	ug/L	ND	10.0	08/27/10 22:06	
Silver	ug/L	ND	5.0	08/27/10 22:06	
Thallium	ug/L	ND	5.4	08/27/10 22:06	
Vanadium	ug/L	0.39J	5.0	08/27/10 22:06	
Zinc	ug/L	1.0J	10.0	08/27/10 22:06	

LABORATORY CONTROL SAMPLE: 487022

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	483	97	80-120	
Arsenic	ug/L	500	497	99	80-120	
Barium	ug/L	500	487	97	80-120	
Beryllium	ug/L	500	495	99	80-120	
Cadmium	ug/L	500	507	101	80-120	
Chromium	ug/L	500	497	99	80-120	
Cobalt	ug/L	500	494	99	80-120	
Copper	ug/L	500	489	98	80-120	
Iron	ug/L	5000	4630	93	80-120	
Lead	ug/L	500	501	100	80-120	
Manganese	ug/L	500	493	99	80-120	
Nickel	ug/L	500	498	100	80-120	
Selenium	ug/L	500	486	97	80-120	
Silver	ug/L	250	208	83	80-120	
Thallium	ug/L	500	475	95	80-120	
Vanadium	ug/L	500	496	99	80-120	
Zinc	ug/L	500	495	99	80-120	

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QUALITY CONTROL DATA

Project: SCOTTS CREEK 08/20
Pace Project No.: 9275985

MATRIX SPIKE SAMPLE: 487023

Parameter	Units	9275710002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	489	97	75-125	
Arsenic	ug/L	ND	500	502	100	75-125	
Barium	ug/L	65.6	500	557	98	75-125	
Beryllium	ug/L	ND	500	500	100	75-125	
Cadmium	ug/L	ND	500	512	102	75-125	
Chromium	ug/L	ND	500	501	100	75-125	
Cobalt	ug/L	ND	500	501	100	75-125	
Copper	ug/L	ND	500	492	98	75-125	
Iron	ug/L	221	5000	4900	94	75-125	
Lead	ug/L	ND	500	503	100	75-125	
Manganese	ug/L	25.8	500	522	99	75-125	
Nickel	ug/L	ND	500	504	101	75-125	
Selenium	ug/L	ND	500	495	98	75-125	
Silver	ug/L	ND	250	202	81	75-125	
Thallium	ug/L	6.2	500	480	95	75-125	
Vanadium	ug/L	ND	500	503	100	75-125	
Zinc	ug/L	ND	500	505	100	75-125	

SAMPLE DUPLICATE: 487024

Parameter	Units	9275710003 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND		25	
Arsenic	ug/L	ND	ND		25	
Barium	ug/L	72.2	71.9	0	25	
Beryllium	ug/L	ND	0.24J		25	
Cadmium	ug/L	ND	ND		25	
Chromium	ug/L	ND	1.1J		25	
Cobalt	ug/L	35.2	35.8	2	25	
Copper	ug/L	ND	ND		25	
Iron	ug/L	34100	34300	0	25	
Lead	ug/L	ND	ND		25	
Manganese	ug/L	108	106	2	25	
Nickel	ug/L	ND	3.6J		25	
Selenium	ug/L	ND	ND		25	
Silver	ug/L	ND	ND		25	
Thallium	ug/L	ND	3.1J		25	
Vanadium	ug/L	ND	2.2J		25	
Zinc	ug/L	11.5	10.7	7	25	

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QUALITY CONTROL DATA

Project: SCOTTS CREEK 08/20
Pace Project No.: 9275985

QC Batch: MERP/2989 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 9275985001, 9275985002, 9275985003, 9275985004

METHOD BLANK: 491167 Matrix: Water
Associated Lab Samples: 9275985001, 9275985002, 9275985003, 9275985004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	09/02/10 13:07	

LABORATORY CONTROL SAMPLE: 491168

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.2	88	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 491169 491170

Parameter	Units	9275853008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.5	2.5	95	97	75-125	2	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 491171 491172

Parameter	Units	9275853009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.2	2.2	86	85	75-125	0	25	

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QUALITY CONTROL DATA

Project: SCOTTS CREEK 08/20
Pace Project No.: 9275985

QC Batch: MSV/11998 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 9275985001, 9275985002, 9275985003, 9275985004, 9275985005

METHOD BLANK: 487617 Matrix: Water
Associated Lab Samples: 9275985001, 9275985002, 9275985003, 9275985004, 9275985005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	08/25/10 00:54	
1,1,1-Trichloroethane	ug/L	ND	1.0	08/25/10 00:54	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	08/25/10 00:54	
1,1,2-Trichloroethane	ug/L	ND	1.0	08/25/10 00:54	
1,1-Dichloroethane	ug/L	ND	1.0	08/25/10 00:54	
1,1-Dichloroethene	ug/L	ND	1.0	08/25/10 00:54	
1,2,3-Trichloropropane	ug/L	ND	1.0	08/25/10 00:54	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	08/25/10 00:54	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	08/25/10 00:54	
1,2-Dichlorobenzene	ug/L	ND	1.0	08/25/10 00:54	
1,2-Dichloroethane	ug/L	ND	1.0	08/25/10 00:54	
1,2-Dichloropropane	ug/L	ND	1.0	08/25/10 00:54	
1,4-Dichlorobenzene	ug/L	ND	1.0	08/25/10 00:54	
2-Butanone (MEK)	ug/L	ND	5.0	08/25/10 00:54	
2-Hexanone	ug/L	ND	5.0	08/25/10 00:54	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	08/25/10 00:54	
Acetone	ug/L	ND	25.0	08/25/10 00:54	
Acrylonitrile	ug/L	ND	10.0	08/25/10 00:54	
Benzene	ug/L	ND	1.0	08/25/10 00:54	
Bromochloromethane	ug/L	ND	1.0	08/25/10 00:54	
Bromodichloromethane	ug/L	ND	1.0	08/25/10 00:54	
Bromoform	ug/L	ND	1.0	08/25/10 00:54	
Bromomethane	ug/L	ND	2.0	08/25/10 00:54	
Carbon disulfide	ug/L	ND	2.0	08/25/10 00:54	
Carbon tetrachloride	ug/L	ND	1.0	08/25/10 00:54	
Chlorobenzene	ug/L	ND	1.0	08/25/10 00:54	
Chloroethane	ug/L	ND	1.0	08/25/10 00:54	
Chloroform	ug/L	ND	1.0	08/25/10 00:54	
Chloromethane	ug/L	ND	1.0	08/25/10 00:54	
cis-1,2-Dichloroethene	ug/L	ND	1.0	08/25/10 00:54	
cis-1,3-Dichloropropene	ug/L	ND	1.0	08/25/10 00:54	
Dibromochloromethane	ug/L	ND	1.0	08/25/10 00:54	
Dibromomethane	ug/L	ND	1.0	08/25/10 00:54	
Ethylbenzene	ug/L	ND	1.0	08/25/10 00:54	
Iodomethane	ug/L	ND	5.0	08/25/10 00:54	
m&p-Xylene	ug/L	ND	2.0	08/25/10 00:54	
Methylene Chloride	ug/L	ND	2.0	08/25/10 00:54	
o-Xylene	ug/L	ND	1.0	08/25/10 00:54	
Styrene	ug/L	ND	1.0	08/25/10 00:54	
Tetrachloroethene	ug/L	ND	1.0	08/25/10 00:54	
Toluene	ug/L	ND	1.0	08/25/10 00:54	
trans-1,2-Dichloroethene	ug/L	ND	1.0	08/25/10 00:54	
trans-1,3-Dichloropropene	ug/L	ND	1.0	08/25/10 00:54	

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QUALITY CONTROL DATA

Project: SCOTTS CREEK 08/20
Pace Project No.: 9275985

METHOD BLANK: 487617 Matrix: Water

Associated Lab Samples: 9275985001, 9275985002, 9275985003, 9275985004, 9275985005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,4-Dichloro-2-butene	ug/L	ND	1.0	08/25/10 00:54	
Trichloroethene	ug/L	ND	1.0	08/25/10 00:54	
Trichlorofluoromethane	ug/L	ND	1.0	08/25/10 00:54	
Vinyl acetate	ug/L	ND	2.0	08/25/10 00:54	
Vinyl chloride	ug/L	ND	1.0	08/25/10 00:54	
Xylene (Total)	ug/L	ND	2.0	08/25/10 00:54	
1,2-Dichloroethane-d4 (S)	%	112	70-130	08/25/10 00:54	
4-Bromofluorobenzene (S)	%	100	70-130	08/25/10 00:54	
Dibromofluoromethane (S)	%	117	70-130	08/25/10 00:54	
Toluene-d8 (S)	%	100	70-130	08/25/10 00:54	

METHOD BLANK: 490465 Matrix: Water

Associated Lab Samples: 9275985001, 9275985002, 9275985003, 9275985004, 9275985005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	08/25/10 23:22	
1,1,1-Trichloroethane	ug/L	ND	1.0	08/25/10 23:22	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	08/25/10 23:22	
1,1,2-Trichloroethane	ug/L	ND	1.0	08/25/10 23:22	
1,1-Dichloroethane	ug/L	ND	1.0	08/25/10 23:22	
1,1-Dichloroethene	ug/L	ND	1.0	08/25/10 23:22	
1,2,3-Trichloropropane	ug/L	ND	1.0	08/25/10 23:22	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	08/25/10 23:22	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	08/25/10 23:22	
1,2-Dichlorobenzene	ug/L	ND	1.0	08/25/10 23:22	
1,2-Dichloroethane	ug/L	ND	1.0	08/25/10 23:22	
1,2-Dichloropropane	ug/L	ND	1.0	08/25/10 23:22	
1,4-Dichlorobenzene	ug/L	ND	1.0	08/25/10 23:22	
2-Butanone (MEK)	ug/L	ND	5.0	08/25/10 23:22	
2-Hexanone	ug/L	ND	5.0	08/25/10 23:22	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	08/25/10 23:22	
Acetone	ug/L	ND	25.0	08/25/10 23:22	
Acrylonitrile	ug/L	ND	10.0	08/25/10 23:22	
Benzene	ug/L	ND	1.0	08/25/10 23:22	
Bromochloromethane	ug/L	ND	1.0	08/25/10 23:22	
Bromodichloromethane	ug/L	ND	1.0	08/25/10 23:22	
Bromoform	ug/L	ND	1.0	08/25/10 23:22	
Bromomethane	ug/L	ND	2.0	08/25/10 23:22	
Carbon disulfide	ug/L	ND	2.0	08/25/10 23:22	
Carbon tetrachloride	ug/L	ND	1.0	08/25/10 23:22	
Chlorobenzene	ug/L	ND	1.0	08/25/10 23:22	
Chloroethane	ug/L	ND	1.0	08/25/10 23:22	
Chloroform	ug/L	ND	1.0	08/25/10 23:22	
Chloromethane	ug/L	ND	1.0	08/25/10 23:22	
cis-1,2-Dichloroethene	ug/L	ND	1.0	08/25/10 23:22	

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QUALITY CONTROL DATA

Project: SCOTTS CREEK 08/20
Pace Project No.: 9275985

METHOD BLANK: 490465 Matrix: Water

Associated Lab Samples: 9275985001, 9275985002, 9275985003, 9275985004, 9275985005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	1.0	08/25/10 23:22	
Dibromochloromethane	ug/L	ND	1.0	08/25/10 23:22	
Dibromomethane	ug/L	ND	1.0	08/25/10 23:22	
Ethylbenzene	ug/L	ND	1.0	08/25/10 23:22	
Iodomethane	ug/L	ND	5.0	08/25/10 23:22	
m&p-Xylene	ug/L	ND	2.0	08/25/10 23:22	
Methylene Chloride	ug/L	4.6	2.0	08/25/10 23:22	C9
o-Xylene	ug/L	ND	1.0	08/25/10 23:22	
Styrene	ug/L	ND	1.0	08/25/10 23:22	
Tetrachloroethene	ug/L	ND	1.0	08/25/10 23:22	
Toluene	ug/L	ND	1.0	08/25/10 23:22	
trans-1,2-Dichloroethene	ug/L	ND	1.0	08/25/10 23:22	
trans-1,3-Dichloropropene	ug/L	ND	1.0	08/25/10 23:22	
trans-1,4-Dichloro-2-butene	ug/L	ND	1.0	08/25/10 23:22	
Trichloroethene	ug/L	ND	1.0	08/25/10 23:22	
Trichlorofluoromethane	ug/L	ND	1.0	08/25/10 23:22	
Vinyl acetate	ug/L	ND	2.0	08/25/10 23:22	
Vinyl chloride	ug/L	ND	1.0	08/25/10 23:22	
Xylene (Total)	ug/L	ND	2.0	08/25/10 23:22	
1,2-Dichloroethane-d4 (S)	%	104	70-130	08/25/10 23:22	
4-Bromofluorobenzene (S)	%	99	70-130	08/25/10 23:22	
Dibromofluoromethane (S)	%	102	70-130	08/25/10 23:22	
Toluene-d8 (S)	%	99	70-130	08/25/10 23:22	

METHOD BLANK: 490466 Matrix: Water

Associated Lab Samples: 9275985001, 9275985002, 9275985003, 9275985004, 9275985005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	08/26/10 23:26	
1,1,1-Trichloroethane	ug/L	ND	1.0	08/26/10 23:26	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	08/26/10 23:26	
1,1,2-Trichloroethane	ug/L	ND	1.0	08/26/10 23:26	
1,1-Dichloroethane	ug/L	ND	1.0	08/26/10 23:26	
1,1-Dichloroethene	ug/L	ND	1.0	08/26/10 23:26	
1,2,3-Trichloropropane	ug/L	ND	1.0	08/26/10 23:26	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	08/26/10 23:26	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	08/26/10 23:26	
1,2-Dichlorobenzene	ug/L	ND	1.0	08/26/10 23:26	
1,2-Dichloroethane	ug/L	ND	1.0	08/26/10 23:26	
1,2-Dichloropropane	ug/L	ND	1.0	08/26/10 23:26	
1,4-Dichlorobenzene	ug/L	ND	1.0	08/26/10 23:26	
2-Butanone (MEK)	ug/L	ND	5.0	08/26/10 23:26	
2-Hexanone	ug/L	ND	5.0	08/26/10 23:26	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	08/26/10 23:26	
Acetone	ug/L	ND	25.0	08/26/10 23:26	

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QUALITY CONTROL DATA

Project: SCOTTS CREEK 08/20
Pace Project No.: 9275985

METHOD BLANK: 490466 Matrix: Water

Associated Lab Samples: 9275985001, 9275985002, 9275985003, 9275985004, 9275985005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acrylonitrile	ug/L	ND	10.0	08/26/10 23:26	
Benzene	ug/L	ND	1.0	08/26/10 23:26	
Bromochloromethane	ug/L	ND	1.0	08/26/10 23:26	
Bromodichloromethane	ug/L	ND	1.0	08/26/10 23:26	
Bromoform	ug/L	ND	1.0	08/26/10 23:26	
Bromomethane	ug/L	ND	2.0	08/26/10 23:26	
Carbon disulfide	ug/L	ND	2.0	08/26/10 23:26	
Carbon tetrachloride	ug/L	ND	1.0	08/26/10 23:26	
Chlorobenzene	ug/L	ND	1.0	08/26/10 23:26	
Chloroethane	ug/L	ND	1.0	08/26/10 23:26	
Chloroform	ug/L	ND	1.0	08/26/10 23:26	
Chloromethane	ug/L	ND	1.0	08/26/10 23:26	
cis-1,2-Dichloroethene	ug/L	0.29J	1.0	08/26/10 23:26	
cis-1,3-Dichloropropene	ug/L	ND	1.0	08/26/10 23:26	
Dibromochloromethane	ug/L	ND	1.0	08/26/10 23:26	
Dibromomethane	ug/L	ND	1.0	08/26/10 23:26	
Ethylbenzene	ug/L	ND	1.0	08/26/10 23:26	
Iodomethane	ug/L	ND	5.0	08/26/10 23:26	
m&p-Xylene	ug/L	ND	2.0	08/26/10 23:26	
Methylene Chloride	ug/L	ND	2.0	08/26/10 23:26	
o-Xylene	ug/L	ND	1.0	08/26/10 23:26	
Styrene	ug/L	ND	1.0	08/26/10 23:26	
Tetrachloroethene	ug/L	ND	1.0	08/26/10 23:26	
Toluene	ug/L	ND	1.0	08/26/10 23:26	
trans-1,2-Dichloroethene	ug/L	ND	1.0	08/26/10 23:26	
trans-1,3-Dichloropropene	ug/L	ND	1.0	08/26/10 23:26	
trans-1,4-Dichloro-2-butene	ug/L	ND	1.0	08/26/10 23:26	
Trichloroethene	ug/L	ND	1.0	08/26/10 23:26	
Trichlorofluoromethane	ug/L	ND	1.0	08/26/10 23:26	
Vinyl acetate	ug/L	ND	2.0	08/26/10 23:26	
Vinyl chloride	ug/L	ND	1.0	08/26/10 23:26	
Xylene (Total)	ug/L	ND	2.0	08/26/10 23:26	
1,2-Dichloroethane-d4 (S)	%	99	70-130	08/26/10 23:26	
4-Bromofluorobenzene (S)	%	93	70-130	08/26/10 23:26	
Dibromofluoromethane (S)	%	102	70-130	08/26/10 23:26	
Toluene-d8 (S)	%	99	70-130	08/26/10 23:26	

LABORATORY CONTROL SAMPLE: 487618

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	57.2	114	70-130	
1,1,1-Trichloroethane	ug/L	50	59.4	119	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	56.3	113	70-130	
1,1,2-Trichloroethane	ug/L	50	56.2	112	70-130	
1,1-Dichloroethane	ug/L	50	58.0	116	70-130	

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QUALITY CONTROL DATA

Project: SCOTTS CREEK 08/20
Pace Project No.: 9275985

LABORATORY CONTROL SAMPLE: 487618

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	59.8	120	70-132	
1,2,3-Trichloropropane	ug/L	50	53.9	108	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	57.3	115	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	56.3	113	70-130	
1,2-Dichlorobenzene	ug/L	50	57.2	114	70-130	
1,2-Dichloroethane	ug/L	50	54.6	109	70-130	
1,2-Dichloropropane	ug/L	50	52.7	105	70-130	
1,4-Dichlorobenzene	ug/L	50	55.0	110	70-130	
2-Butanone (MEK)	ug/L	100	116	116	70-145	
2-Hexanone	ug/L	100	98.8	99	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	99.0	99	70-140	
Acetone	ug/L	100	115	115	50-175	
Acrylonitrile	ug/L	250	263	105	70-143	
Benzene	ug/L	50	55.8	112	70-130	
Bromochloromethane	ug/L	50	55.4	111	70-130	
Bromodichloromethane	ug/L	50	55.7	111	70-130	
Bromoform	ug/L	50	57.1	114	70-130	
Bromomethane	ug/L	50	65.2	130	54-130	
Carbon disulfide	ug/L	50	62.3	125	70-131	
Carbon tetrachloride	ug/L	50	57.9	116	70-132	
Chlorobenzene	ug/L	50	55.8	112	70-130	
Chloroethane	ug/L	50	63.6	127	64-134	
Chloroform	ug/L	50	54.8	110	70-130	
Chloromethane	ug/L	50	53.8	108	64-130	
cis-1,2-Dichloroethene	ug/L	50	54.8	110	70-131	
cis-1,3-Dichloropropene	ug/L	50	48.5	97	70-130	
Dibromochloromethane	ug/L	50	55.2	110	70-130	
Dibromomethane	ug/L	50	56.4	113	70-131	
Ethylbenzene	ug/L	50	57.8	116	70-130	
Iodomethane	ug/L	100	111	111	49-180	
m&p-Xylene	ug/L	100	124	124	70-130	
Methylene Chloride	ug/L	50	53.5	107	63-130	
o-Xylene	ug/L	50	62.4	125	70-130	
Styrene	ug/L	50	55.2	110	70-130	
Tetrachloroethene	ug/L	50	55.7	111	70-130	
Toluene	ug/L	50	58.1	116	70-130	
trans-1,2-Dichloroethene	ug/L	50	56.7	113	70-130	
trans-1,3-Dichloropropene	ug/L	50	47.8	96	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	49.8	100	70-141	
Trichloroethene	ug/L	50	57.2	114	70-130	
Trichlorofluoromethane	ug/L	50	58.6	117	62-133	
Vinyl acetate	ug/L	100	109	109	66-157	
Vinyl chloride	ug/L	50	61.6	123	69-130	
Xylene (Total)	ug/L	150	186	124	70-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			103	70-130	
Toluene-d8 (S)	%			101	70-130	

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Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: SCOTTS CREEK 08/20
Pace Project No.: 9275985

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 487619 487620

Parameter	Units	9275943001 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	51.0	48.9	102	98	70-166	4	30	
Benzene	ug/L	ND	50	50	63.6	62.6	127	125	70-148	1	30	
Chlorobenzene	ug/L	ND	50	50	57.3	55.6	115	111	70-146	3	30	
Toluene	ug/L	ND	50	50	58.7	56.5	117	113	70-155	4	30	
Trichloroethene	ug/L	ND	50	50	55.2	52.9	110	106	69-151	4	30	
1,2-Dichloroethane-d4 (S)	%						79	79	70-130			
4-Bromofluorobenzene (S)	%						93	94	70-130			
Dibromofluoromethane (S)	%						93	86	70-130			
Toluene-d8 (S)	%						96	97	70-130			

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QUALIFIERS

Project: SCOTTS CREEK 08/20
Pace Project No.: 9275985

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.

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

LABORATORIES

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

ANALYTE QUALIFIERS

C9	Common Laboratory Contaminant.

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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

1396243

Section A Required Client Information:

Company: Altamont Environmental
Address: 231 Haywood St
Asheville NC 28801
Email To: amacbeth@altamontenvironmental.com
Phone: 281-3350 Fax:
Requested Due Date/TAT: 2 weeks

Section B Required Project Information:

Report To: Chris Gilbert
Copy To: Alec Macbeth
Purchase Order No.:
Project Name: Scotts Creek
Project Number: 2040-4010

Section C Invoice Information:

Attention: Sue Brewer
Company Name: Altamont
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

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

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	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	App I Volatiles (8260)	Metals Lab ID	Metals Lab ID	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-01	WT	G			08-19-10	1223		5	X		X	X					X	X	X		9275985
2	MW-02	WT	G			08-19-10	1359		5	X		X	X					X	X	X		Please do not
3	MW-03	WT	G			08-19-10	1058		5	X		X	X					X	X	X		run filtered 002
4	DUP 1	WT	G			08-19-10	1224		5	X		X	X					X	X	X		Metal analysis 003
5	Trip Blank								2				X					X				until after 004
6																						preserved metals
7																						total analysis
8																						is reported
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
		08/19/10	1460		8/19/10	1600	5.2	X	on	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Amy Bondurant
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 08/19/10

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

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

Sample Condition Upon Receipt

Pace Analytical

Client Name: Altamont Project # 9275985

Where Received: ☐ Huntersville ☑ Asheville ☐ Eden

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

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

Optional
Proj. Due Date:
Proj. Name:

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

Thermometer Used: IR Gun#2 / 14-648-44 Type of Ice: Wet Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor: Add / Subtract 0.5 C

Corrected Cooler Temp.: 5.2 C Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 8/19/10

Temp should be above freezing to 6°C

		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: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 8/20/10

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)