SEPTEMBER 2013 SEMI-ANNUAL
WATER QUALITY AND LANDFILL GAS MONITORING REPORT

Western Carolina University
Closed Municipal Solid Waste Landfill
Monteith Gap Road
Cullowhee, Jackson County, North Carolina 28723
NCDENR Permit: 50-01

Prepared For:
Western Carolina University
3476 Old Cullowhee Road
Cullowhee, North Carolina 28723

Prepared by:
AMEC Environment & Infrastructure, Inc.
1308 Patton Avenue
Asheville, North Carolina 28806

October 7, 2013

AMEC Project 6252-11-1937

amec

October 7, 2013

Mr. Roger Turk
Western Carolina University
3476 Old Cullowhee Road
Cullowhee, North Carolina 28723

Subject: **September 2013 Semi-annual Water Quality and Landfill Gas Monitoring Report**
WCU Closed Municipal Solid Waste Landfill
Cullowhee, Jackson County, North Carolina
NCDENR Permit: 50-01
AMEC Project 6252-11-1937

Dear Mr. Turk:

AMEC Environment & Infrastructure, Inc. (AMEC) is pleased to submit this September 2013 Semi-annual Water Quality and Landfill Gas Monitoring Report for Western Carolina University's (WCU's) closed municipal solid waste landfill located in Cullowhee, North Carolina. The scope of work for this monitoring event was described in AMEC's Proposal for Environmental Services, dated July 12, 2012.

AMEC appreciates the opportunity to provide our environmental services to WCU. If you have any questions concerning this report, please contact us at (828) 252-8130.

Sincerely,

AMEC Environment & Infrastructure, Inc.

Susan E. Kelly, P.E., L.G.
Senior Engineer

Matthew E. Wallace, P.E.
Principal Engineer

SEK/MEW:rmc

cc: Ms. Jaclynne Drummond – NCDENR Solid Waste Section, Raleigh Regional Office
Mr. Troy Harrison – NCDENR Solid Waste Section, Asheville Regional Office

Correspondence:
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Asheville, North Carolina 28806
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1. INTRODUCTION

This report documents field activities and results from the September 2013 semi-annual water quality and landfill gas monitoring event at Western Carolina University's (WCU's) closed Municipal Solid Waste Landfill (MSWLF) located in Cullowhee, North Carolina (Site) as shown on Figure 1.

1.1. Site-Specific Information

Site Name:	WCU Closed MSWLF
Facility Permit Number:	50-01
Facility Latitude/Longitude:	N 35° 19' 30" / W 83° 10' 55"
Site Location Map:	Figure 1
Facility Address:	Monteith Gap Road Cullowhee, North Carolina Jackson County
Facility Owner :	Western Carolina University Attn. Mr. Roger Turk 3476 Old Cullowhee Road Cullowhee, North Carolina, 28723 (828) 227-3571
Primary Consultant:	AMEC Environment & Infrastructure, Inc. 1308 Patton Avenue Asheville, North Carolina 28806 (828) 252-8130

1.2. Background Information

WCU operated the MSWLF from approximately the 1960s until 1993. Jackson County also disposed of municipal solid waste at the landfill from approximately the early 1970s to the early 1980s. The landfill property is approximately 31.5 acres, approximately four acres of which contains the former landfill. The landfill was closed in accordance with the then applicable North Carolina Department of Environment and Natural Resources (NCDENR) closure standards (15A NCAC 13B 0.0510), and a closure letter was issued to WCU by NCDENR on September 5, 1995. NCDENR personnel conducted a facility audit on March 16, 2011, and determined that semi-annual water quality and landfill gas monitoring at the landfill must be performed to be in compliance with the post-closure conditions identified in the 1995 closure letter. AMEC Environment & Infrastructure, Inc. (AMEC) has conducted semi-annual water quality monitoring since August 2011 and landfill gas monitoring since February 2012 to comply with the post-closure condition.

2. FIELD ACTIVITIES

AMEC personnel visited the Site on September 4, 2013, to conduct the water quality monitoring activities and on September 10, 2013, to perform landfill gas monitoring activities.

2.1. Landfill Gas Monitoring

AMEC personnel measured landfill gas at the four existing monitoring wells MW-1, MW-2, MW-3, and MW-4 at the site (Figure 2). The monitoring wells were fitted with a temporary slip cap equipped with a barb fitting to allow for measurement of potential landfill gas. A calibrated gas monitoring instrument, a Landtec GEM 5000, was used to measure the following landfill gas parameters, as well as atmospheric barometric pressure:

- Methane (percent by volume)
- Oxygen (percent by volume)
- Carbon dioxide (percent by volume)

The initial and stabilized readings for the above parameters were measured and recorded. The Solid Waste Section's "Landfill Gas Monitoring Data Form" was used to record measurements and other relevant information and is provided as Appendix A.

2.2. Water Quality Monitoring

AMEC personnel gauged static groundwater levels in the four monitoring wells. Water levels were referenced to the top-of-casing at the wells. Depth to water measurements and approximate water table elevations for the monitoring wells are presented in Table 1.

Following gauging, the four monitoring wells were purged by removing at least three well volumes of water under static conditions with individual, pre-cleaned, disposable, polyethylene bailers. The purge water was discharged to the ground surface in proximity to each well in a manner that precluded erosion or surface runoff. Groundwater samples were collected after purging using pre-cleaned polyethylene disposable bailers. Water quality parameters including temperature, pH, and conductivity were measured and recorded (Table 1).

A surface water sample (SW-2) was collected at the approximate location depicted in Figure 2. The approximate location of surface water sample SW-1 as depicted in Figure 2 was observed to be dry.

The water samples were placed in laboratory-supplied containers, labeled with sampling information, packed in an ice-chilled cooler, and shipped with appropriate chain-of-custody records via overnight delivery to Prism Analytical Laboratories (a North Carolina-accredited analytical laboratory). The samples were submitted for analysis of Appendix I volatile organic compounds (VOCs) according to EPA Method 8260 and Appendix I metals according to EPA Method 6020.

3. RESULTS AND DISCUSSION

The results of the water quality and landfill gas monitoring event are reported in the NCDENR Environmental Monitoring Report Form that is provided as Appendix B and summarized in the following sections.

3.1. Landfill Gas

Monitoring well MW-3 initially did not indicate elevated concentrations of methane or carbon dioxide or decreased concentrations of atmospheric oxygen. Monitoring well MW-3 was retested after three well volumes of groundwater were purged, and a stabilized reading of 0.2 percent methane by volume and a lower explosive limit reading of four percent were recorded. A stabilized reading of 1.3 percent carbon dioxide and 19.3 percent oxygen were also recorded at MW-3 following the purging of three well volumes of groundwater. The initial and stabilized readings collected from the other three site monitoring wells (MW-1, MW-2 and MW-4), which were tested prior to purging and sampling, did not indicate elevated concentrations of methane or carbon dioxide or decreased concentrations of atmospheric oxygen, which would be indicative of landfill gas migration.

The percent methane and carbon dioxide results of MW-3 were lower and the percent oxygen was higher than previous measurements which are likely a result of the elevated groundwater table recorded in MW-3. The regulatory limit for methane at a MSWLF property boundary is equal to the lower explosive limit of methane (15A NCAC 13B.0544(d)), which is five percent methane on a volume to volume basis. The recorded results from the four Site monitoring wells do not exceed this limit. The results of the landfill gas monitoring do not suggest that regulatory limits are being exceeded at the Site.

3.2. Groundwater and Surface Water

Analytical results from the September 2013 water quality monitoring event are presented in Table 2 and historical analytical results are presented in Table 3. The groundwater analytical results were compared to the North Carolina “Groundwater Classification and Standards” (15A NCAC 2L .0202, last amended on January 1, 2010, and including applicable interim standards; referred to herein as the “Groundwater Standards”). The surface water analytical results were compared to the North Carolina “Surface Water and Wetlands Standards” (15A NCAC 2B, amended effective May 1, 2007; herein referred to as the “Surface Water Standards”). The laboratory analytical report and chain-of-custody record are included in Appendix C.

3.2.1. Appendix I VOCs

Appendix I VOCs were not detected above the method detection limit (MDL) in the groundwater samples collected from monitoring wells MW-1 and MW-2.

Three Appendix I VOCs (chlorobenzene, 1,4-dichlorobenzene, and 1,2-cis-dichloroethene) were detected at concentrations greater than the MDL but less than their respective Groundwater Standard in the groundwater samples collected from monitoring wells MW-3 and MW-4. Benzene was detected in the groundwater sample collected from monitoring well MW-3 at a concentration of 0.51 micrograms per liter (μg/L), which is below the Groundwater Standard of 1 μg/L.

Two Appendix I VOCs (chlorobenzene and 1,4-dichlorobenzene) were detected at concentrations above the MDL in the surface water sample SW-2. Surface Water Standards have not been established for the detected Appendix I VOCs.

3.2.2. Appendix I Metals

Twelve Appendix I metals were detected above the MDL in the groundwater samples collected from the monitoring wells, including the field duplicate sample, FD-1, which was collected from MW-3. Cobalt and Vanadium were detected at a concentration that exceeds the Groundwater Standard in the groundwater samples collected from MW-1, MW-3 and MW-4. Chromium was detected at a concentration that exceeds the Groundwater Standard in the groundwater samples collected from MW-1 and MW-3.

Four Appendix I metals were detected above the MDL in the surface water sample SW-2. Two metals, copper and zinc, were detected at concentrations that are below their respective Surface Water Standards. The remaining two detected metals, barium and cobalt, do not have a Surface Water Standard established.

TABLES

TABLE 1
Well Construction, Water Level, and Water Quality Data - September 2013
Western Carolina University - Closed MSWLF
Cullowhee, North Carolina
AMEC Project 6252-11-1937

Sampling Location	Approximate Ground Surface Elevation (feet MSL)	Well Depth (feet BTOC)	Casing Stickup (ft AGS)	Depth to Water (feet BTOC)	Approximate Groundwater Elevation (feet MSL)	Temperature (^{o}C)	pH	Conductivity (µS/cm)	Turbidity
MW-1	2,302	94.5	3.4	69.58	2,236	13.6	6.05	21	cloudy
MW-2	2,207	51.2	2.4	32.04	2,177	13.9	5.97	137	clear
MW-3	2,181	*64.5	2.8	53.51	2,130	15.6	6.41	371	**cloudy
MW-4	2,127	21.4	2.5	8.00	2,122	15.5	6.13	292	clear

Notes:
1. Water levels and parameters were obtained on September 4, 2013.
2. MSL - mean sea level; BTOC - below top of casing; AGS - above ground surface; ^{o}C - degrees Celcius; mS/cm - milliSiemens per centimeter.
3. Approximate ground surface elevations from Jackson County GIS contouring data. Note that elevations are 100 feet greater than elevations indicated on the "Landfill Closure & Transfer Station Plan" by Jensen Engineering, dated April 1994.
4. * - Well depth indicated in 2004 monitoring report (RETAW Corporation) indicates well depth is 71.7 feet.
5. ** - Organic materials (e.g, leaf fragments) and colloidal material present in purged water.

Prepared By: RMC 9/19/13
Checked By: LRG 9/19/13

TABLE 2
Analytical Results - September 2013
Western Carolina University - Closed MSWLF
Cullowhee, North Carolina
AMEC Project 6252-11-1937

Constituent	GROUNDWATER						SURFACE WATER	
	Groundwater Standard	MW-1	MW-2	MW-3	FD-1 (MW-3)	MW-4	Surface Water Standard	SW-2
Appendix I VOCs								
Benzene	1			0.51			NE	
Chlorobenzene	50			11	9.8	10	NE	2.5
1,4-Dichlorobenzene	6			3.2	3.2	3.9	NE	0.84
cis-1,2-Dichloroethene	70			5.2	4.8	2.8	NE	
Appendix I Metals								
Antimony	1						NE	
Arsenic	10						50	
Barium	700	350	100	390	450	190	NE	180
Beryllium	4	0.32 J		0.20 J			NE	
Cadmium	2	1.7	0.38 J	0.70 J	0.74 J	0.26 J	2	
Chromium	10	**18**		**26**	**33**	8.0 J	50	
Cobalt	1	**22**	0.66 J	**17**	**19**	**3.1 J**	NE	8.5
Copper	1,000	61	2.9 J	16	19	7.8	7	0.51 J
Lead	15	9.8		4.3 J	5.1	1.6 J	25	
Nickel	100	13	1.8 J	19	22	3.0 J	88	
Selenium	20	2.4 JB		2.3 JB	2.8 JB		5	
Silver	20	0.15 J					0.06	
Thallium	0.2						NE	
Vanadium	0.3	**26**		**50**	**39**	**10 J**	NE	
Zinc	1,000	80	21	95	100	46	50	26

Notes:

Prepared By: RMC 9/19/13
Checked By: LRG 9/19/13

1. VOCs - volatile organic compounds according to EPA Method 8260B.
2. Metals according to EPA Method 6020A, using EPA Method 3030C preparation.
3. Concentrations are in micrograms per liter (μg/L).
4. Groundwater Standard - from 15A NCAC 2L, last amended January 1, 2010 (including interim standards).
5. Surface Water Standard - from 15A NCAC 2B (summary table dated May 1, 2007).
6. NE - associated standard has not been established.
7. Constituents detected above the method detection limit (MDL) are shown; refer to laboratory analytical report for list of constituents.
8. Blank cells indicate constituent not detected in sample above the MDL.
9. J - concentration is estimated (greater than the MDL, but less than the laboratory reporting limit).
10. B - constiuent detected in the laboratory blank sample.
11. Bold concentrations indicate exceedance of applicable standard.

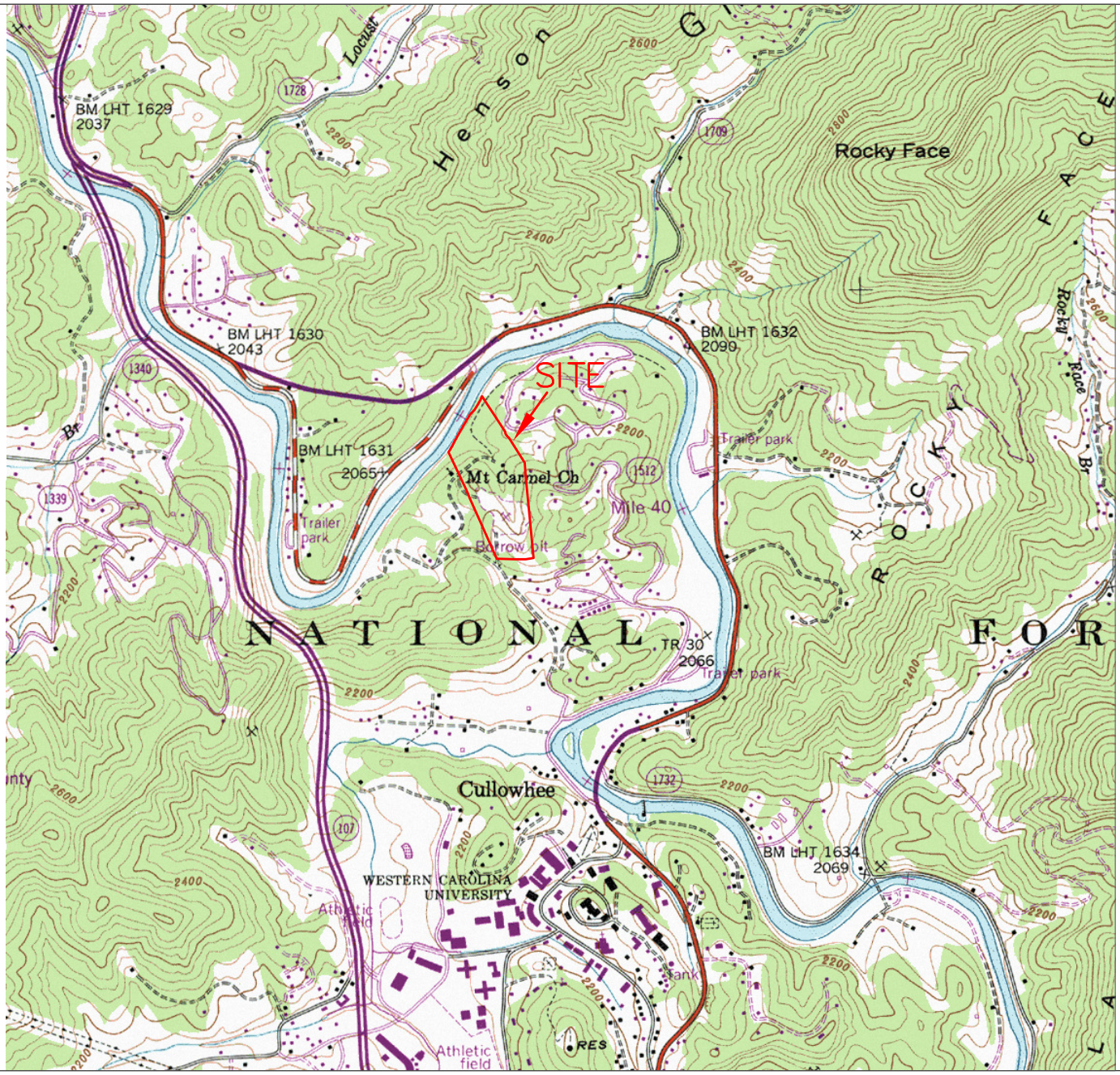
TABLE 3
Historical Analytical Results
Western Carolina University - Closed MSWLF
Cullowhee, North Carolina
AMEC Project 6252-11-1937

Monitoring Location	Sample Date	Appendix I VOCs						Appendix I Metals														
		Acetone	Benzene	Chlorobenzene	1,4-Dichlorobenzene	cis-1,2-Dichloroethene	Vinyl chloride	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Selenium	Silver	Thalium	Vanadium	Zinc
Groundwater																						
MW-1	8/3/11							0.35 JB		390			**63 B**	**28**	180	7.8	38			**0.88 J**	**0.98 J**	160
	2/2/12							0.42 JB		62				**1.7**	3.5 J	0.79 JB						17
	8/28/12							0.65 JB	0.32 J	270	0.35 J	0.59 J	8.2 JB	**16**	26	7.0	6.3		0.27 J	**2.9**	**14**	37 B
	2/8/13							0.73 J	0.58 JB	530	0.84 JA	0.59 J	17 B	**42**	64	**19**	17	0.34 J	0.48 J	**0.64J**	**20**	63
	9/4/13									350	0.32 J	1.7	**18**	**22**	61	9.8	13	2.4 JB	0.15 J		**26**	80
MW-2	8/3/11							0.48 J	0.22 J	130		0.20 J	2.0	**1.8**	1.2 J	0.59 J	2.5	0.54 J	0.076 J	**0.76 J**	**3.8 J**	9.5 J
	2/2/12							0.93 JB		120				0.33 J	0.72 J	0.17 JB	2.3		0.064 J	**0.26 J**		9.3 J
	8/28/12							0.46 JB		110	0.31 J	0.47 J	4.8 JB	0.62 J	1.5 J	0.50 J	2.5		0.040 J	**3.0**	**2.5 J**	11 B
	2/8/13									100		0.16 J	2.2 B	0.31 J	1.4 J	0.15 J	1.9 J	0.21 J	0.14 J	0.16 J		16
	9/4/13									100		0.38 J		0.66 J	2.9 J		1.8 J					21
MW-3	8/3/11	78	1.0	15	0.66	4.9	**9.5**	0.49 J	1.0	150		0.89 J	1.3	**8.5**	1.7 J	0.59 J	5.1	1.5	0.15 J	**1.1**	**3.0 J**	46
	2/2/12	6.6	0.79	7.1	3.4	4.8	**0.34 J**	0.72 JB	5.0	340	0.34 J	**31**	**36**	**75**	30	8.2 B	79	1.3	0.072 J	**1.3**	**36**	**3,700**
	8/28/12	3.3 J	0.97	14	4.5	8.8		0.18 JB	0.97 J	130		0.48 J	4.7 JB	**6.3**	1.8 J	0.30 J	4.1	1.6	0.091 J	**0.68 J**		40 B
	2/8/13		**3.2**	9.1	3.7	5.5				150		0.56 J	1.6 B	**15**	2.6 J	0.18 J	4.0	1.1	0.071 J			26
	9/4/13		0.51	11	3.2	5.2				390	0.20 J	0.70 J	26	**17**	16	4.3 J	19	2.3 JB			**50**	95
MW-4	8/3/11		0.67	15	0.53	5.4	**4.8**	0.27 J	0.31 J	210		0.36 J	4.4	**1.9**	3.5 J	1.4	2.3	0.91 J	0.060 J	**0.35 J**	**7.4**	11
	2/2/12			1.5	0.73	0.52		0.44 JB		89				0.38 J	1.0 J	0.46 JB				0.19 J		14
	8/28/12			3.5	1.6	1.1				120		0.37 J	5.9 JB	0.82 J	2.8 J	0.65 J	1.5 J	0.59 J		**0.41 J**	**4.1 J**	28 B
	2/8/13			1.7	0.83	0.65				85		0.13 J	3.0 B	0.47 J	1.9 J	0.33 J	0.67 J	0.33 J	0.041 J			18
	9/4/13			10.0	3.9	2.8				190		0.26 J	8.0 J	3.1 J	7.8	1.6 J	3.0 J				**10 J**	46
NCAC 2L GW Standard		6,000	1	50	6	70	0.03	1	10	700	4	2	10	1	1,000	15	100	20	20	0.2	0.3	1,000
Surface Water																						
SW-1	2/2/12		0.75	6.2	1.8	0.68		0.59 JB		250				6.5	1.2 J	0.20 JB	1.2 J	1.0		0.23 J		33
SW-2	8/3/11			2.0		0.96	1.1	0.23 J		250			1.0	12	1.2 J	0.080 J	1.7 J	1.0	**0.064 J**	0.30 J	0.67 J	12
	2/2/12			1.4	0.57			0.46 JB	0.22 J	170				5.5		0.25 JB	0.95 J	0.69 J		0.19 J		13
	8/28/12			2.2	0.78				0.48 J	220			5.4 JB	9.4	0.56 J		1.7 J	1.0		0.37 J	1.1 J	14 B
	2/8/13			1.6	0.55				0.97 JB	170			1.7 B	4.4	0.77 J		1.2 J	0.79 J	0.025 J			20
	9/4/13			2.5	0.84					180				8.5	0.51 J							26
NCAC 2B SW Standard		NE	NE	NE	NE	NE	NE	NE	50	NE	NE	2	50	NE	7	25	88	5	0.060	NE	NE	50

Notes:
1. VOCs - volatile organic compounds according to EPA Method 8260B.
2. Metals according to EPA Method 6020A, using EPA Method 3030C preparation.
3. Concentrations are in micrograms per liter (µg/L).
4. GW Standard - Groundwater Standard from 15A NCAC 2L, last amended January 1, 2010 (including interim standards).
5. SW Standard- Surface Water Standard from 15A NCAC 2B (summary table dated May 1, 2007).
6. NE - associated standard has not been established.
7. Constituents detected above the method detection limit (MDL) are shown; refer to laboratory analytical report for list of constituents.
8. Blank cells indicate constituent not detected in sample above the MDL.
9. J - concentration is estimated (greater than the MDL, but less than the laboratory reporting limit).
10. B - constiuent detected in the laboratory blank sample.
11. A - recovery for the initial calibration verification standard (114%) is greater than the upper control limit (110%), but sample result is less than the reporting limit.
12. Bold concentrations indicate exceedance of applicable standard.

Prepared By: RMC 9/19/13
Checked By: LRD 9/19/13

FIGURES



SYLVA SOUTH, N.C. QUADRANGLE
35083-C2-TF-024
DMA 4354 I SW-SERIES V842
PRINTED 1946
PHOTOREVISED 1990

QUADRANGLE LOCATION

NOTE: SITE BOUNDARY IS APPROXIMATE.

NORTH

CONTOUR INTERVAL 40 FEET

GRAPHIC SCALE FEET

2,000 1,000 0 2,000 4,000

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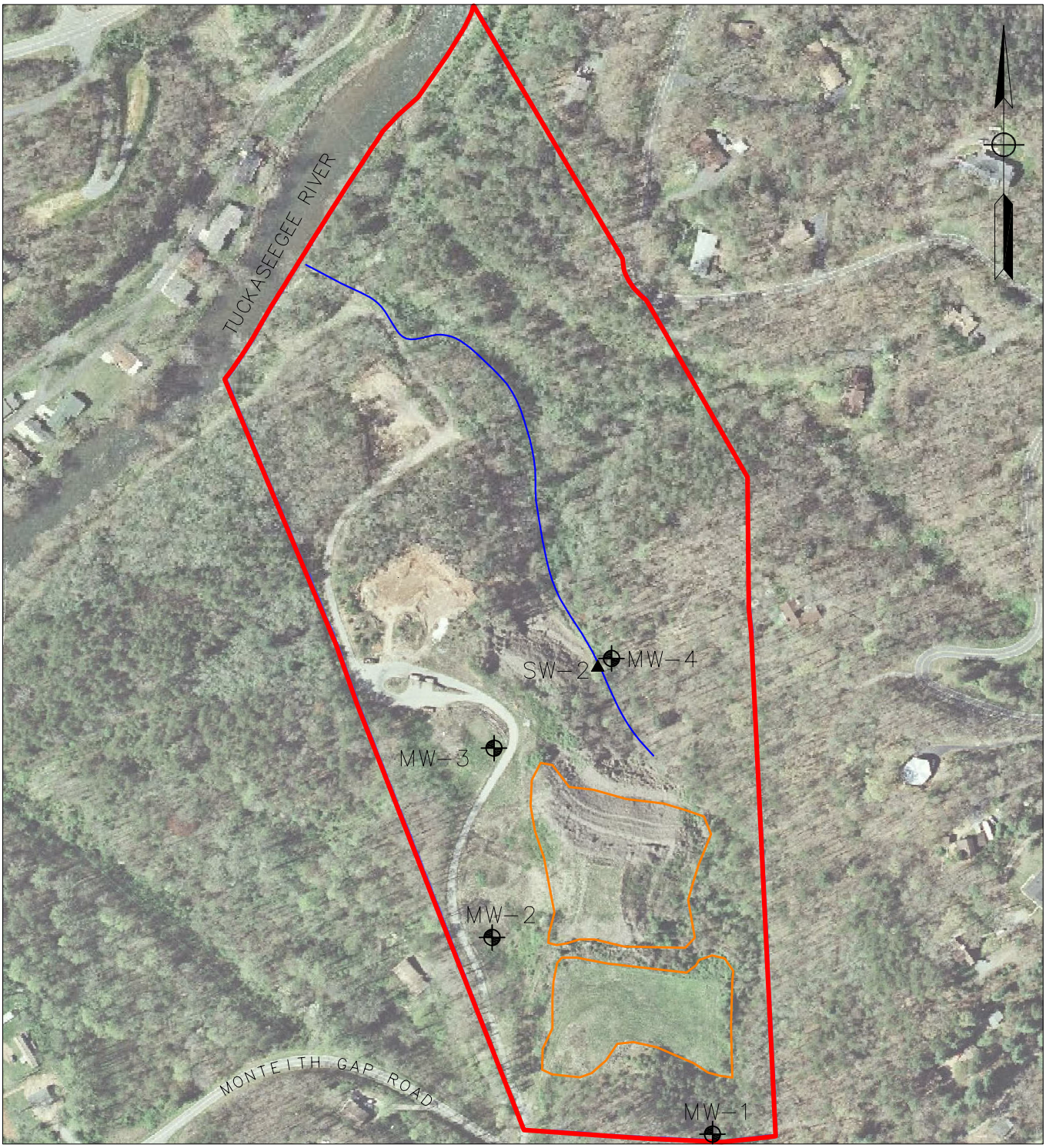
TOPOGRAPHIC SITE MAP

WCU CLOSED MSWLF
MONTEITH GAP ROAD
CULLOWHEE, NORTH CAROLINA

DRAWN: SEK	DATE: SEPT. 2013
DFT CHECK: MEW	SCALE: 1" = 2,000'
ENG CHECK: --	JOB: 6252-11-1937
APPROVAL: MEW	FIG: 1



LEGEND

- Property Boundary
- Landfill Extents
- Unnamed Tributary/Stream
- MW-1 Monitoring Well
- SW-2 Surface Water Sampling Location

NOTE: Locations of depicted features are approximate.

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SITE MAP WITH MONITORING LOCATIONS
WCU CLOSED MSWLF
MONTEITH GAP ROAD
CULLOWHEE, NORTH CAROLINA

DRAWN: SEK	DATE: SEPT. 2013
DFT CHECK: MEW	SCALE: NOT TO SCALE
ENG CHECK: --	PROJ: 6252-11-1937
APPROVAL: MEW	FIG: 2

REFERENCE: JACKSON COUNTY GIS; 1991 LAW ENGINEERING REPORT.

APPENDIX A

LANDFILL GAS MONITORING DATA FORM

NC Division of Waste Management - Solid Waste Section

Landfill Gas Monitoring Data Form

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

Facility Name: WCU Closed MSWLF Permit Number: 50 01

Date of Sampling: 9/10/13 NC Landfill Rule (.0500 or .1600): .0500

Name and Position of Sample Collector: Landtec GEM 5000

Type and Serial Number of Gas Meter: 6500980/22973 Calibration Date of Gas Meter: 8/26/13

Date and Time of Field Calibration: 9/10/13

Type of Field Calibration Gas (15/15 or 35/50): 35/50 Expiration Date of Field Calibration Gas Canister: 11/2016

Pump Rate of Gas Meter: 0.3 L/min

Ambient Air Temperature: 82°F Barometric Pressure: 27.98 General Weather Conditions: Sunny

Instructions: Under "Location or LFG Well" identify the monitoring wells or describe the location for other tests (e.g., inside buildings). A drawing showing the location of test must be attached. Report methane readings in both % LEL and % methane by volume. A reading in percent methane by volume can be converted to % LEL as follows: % methane by volume = % LEL/20

Location or LFG Well ID	Sample Tube Purge	Time	Time Pumped (s)	Initial %LEL	Stabilized %LEL	%CH4 by Volume	%O2	%CO2	Notes
MW-1	/	1430	10min	0%	0%	0.0%	21.1%	0.0%	
MW-2	/	1345	10min	0%	0%	0.0%	20.9%	0.0%	
MW-3	/	~~1200~~ 1315	~~12~~ 10min	0%	4%	0.2%	19.3%	1.3%	
MW-4	/	1300	10min	0%	0%	0.0%	20.8%	0.0%	
Background	/	1200	~~1200~~ 10min	0%	0%	0.0%	22.2%	0.0%	

If your facility has more gas monitoring locations than there is room on this form, please attach additional sheets listing the same information as contained on this form.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

SIGNATURE

Staff Geologist
TITLE

APPENDIX B

NCDENR ENVIRONMENTAL MONITORING REPORTING FORM

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

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

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

Instructions:

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

Solid Waste Monitoring Data Submittal Information

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

AMEC Environment & Infrastructure, Inc.

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

Name: Susan Kelly Phone: 828-252-8130

E-mail: susan.kelly@amec.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Western Carolina University MSW Landfill	Monteith Gap Road (State Road 1336) Cullowhee, Jackson County, NC 28723	50-01	0.0500	September 4 & 10, 2013

Environmental Status: (Check all that apply)

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

Type of data submitted: (Check all that apply)

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

Notification attached?

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

Certification

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

Susan E. Kelly, PE, LG — Senior Engineer — (828) 252-8130

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

Signature — 10/7/13 Date

Affix NC Licensed/ Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 1955 10/7/13 GEOLOGIST SUSAN E. KELLY

1308 Patton Avenue, Asheville, NC 28806

Facility Representative Address

F-1253

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

Revised 6/2009

APPENDIX C

LABORATORY ANALYTICAL REPORT AND CHAIN-OF-CUSTODY RECORD

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert No. 37735
VA Certification No. 460211
DoD ELAP: L-A-B Accredited Certificate No. L2307
ISO/IEC 17025: L-A-B Accredited Certificate No. L2307

Case Narrative

09/17/2013

AMEC Env. & Infrastructure Inc (Asheville)
Susan Kelly
1308 Patton Avenue
Asheville, NC 28806

Project: WCU MSWLF

Lab Submittal Date: 09/05/2013
Prism Work Order: 3090056

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

Robbi A. Jones
President/Project Manager

Reviewed By Robbi A. Jones
President/Project Manager

Data Qualifiers Key Reference:

B	Analyte is found in the associated blank at a concentration >1/2 RL.
BL	MB greater than one half of the RL, but the sample concentrations are less than the RL.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

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Sample Receipt Summary

09/17/2013

Prism Work Order: 3090056

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
MW-1	3090056-01	Water	09/04/13	09/05/13
MW-2	3090056-02	Water	09/04/13	09/05/13
MW-3	3090056-03	Water	09/04/13	09/05/13
MW-4	3090056-04	Water	09/04/13	09/05/13
SW-2	3090056-05	Water	09/04/13	09/05/13
FD-1	3090056-06	Water	09/04/13	09/05/13
TB-1	3090056-07	Water	09/04/13	09/05/13

Samples were received in good condition at 4.8 degrees C unless otherwise noted.

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Summary of Detections

09/17/2013

Prism Work Order: 3090056

Prism ID	Client ID	Parameter	Method	Result		Units
3090056-01	MW-1	Barium	6020A	350		ug/L
3090056-01	MW-1	Beryllium	6020A	0.32	J	ug/L
3090056-01	MW-1	Cadmium	6020A	1.7		ug/L
3090056-01	MW-1	Chromium	6020A	18		ug/L
3090056-01	MW-1	Cobalt	6020A	22		ug/L
3090056-01	MW-1	Copper	6020A	61		ug/L
3090056-01	MW-1	Lead	6020A	9.8		ug/L
3090056-01	MW-1	Nickel	6020A	13		ug/L
3090056-01	MW-1	Selenium	6020A	2.4	J, B	ug/L
3090056-01	MW-1	Silver	6020A	0.15	J	ug/L
3090056-01	MW-1	Vanadium	6020A	26		ug/L
3090056-01	MW-1	Zinc	6020A	80		ug/L
3090056-02	MW-2	Barium	6020A	100		ug/L
3090056-02	MW-2	Cadmium	6020A	0.38	J	ug/L
3090056-02	MW-2	Cobalt	6020A	0.66	J	ug/L
3090056-02	MW-2	Copper	6020A	2.9	J	ug/L
3090056-02	MW-2	Nickel	6020A	1.8	J	ug/L
3090056-02	MW-2	Zinc	6020A	21		ug/L
3090056-03	MW-3	Barium	6020A	390		ug/L
3090056-03	MW-3	Beryllium	6020A	0.20	J	ug/L
3090056-03	MW-3	Cadmium	6020A	0.70	J	ug/L
3090056-03	MW-3	Chromium	6020A	26		ug/L
3090056-03	MW-3	Cobalt	6020A	17		ug/L
3090056-03	MW-3	Copper	6020A	16		ug/L
3090056-03	MW-3	Lead	6020A	4.3	J	ug/L
3090056-03	MW-3	Nickel	6020A	19		ug/L
3090056-03	MW-3	Selenium	6020A	2.3	J, B	ug/L
3090056-03	MW-3	Vanadium	6020A	50		ug/L
3090056-03	MW-3	Zinc	6020A	95		ug/L
3090056-03	MW-3	1,4-Dichlorobenzene	8260B	3.2		ug/L
3090056-03	MW-3	Benzene	8260B	0.51		ug/L
3090056-03	MW-3	Chlorobenzene	8260B	11		ug/L
3090056-03	MW-3	cis-1,2-Dichloroethylene	8260B	5.2		ug/L
3090056-04	MW-4	Barium	6020A	190		ug/L
3090056-04	MW-4	Cadmium	6020A	0.26	J	ug/L
3090056-04	MW-4	Chromium	6020A	8.0	J	ug/L
3090056-04	MW-4	Cobalt	6020A	3.1	J	ug/L
3090056-04	MW-4	Copper	6020A	7.8		ug/L
3090056-04	MW-4	Lead	6020A	1.6	J	ug/L
3090056-04	MW-4	Nickel	6020A	3.0	J	ug/L
3090056-04	MW-4	Vanadium	6020A	10	J	ug/L
3090056-04	MW-4	Zinc	6020A	46		ug/L
3090056-04	MW-4	1,4-Dichlorobenzene	8260B	3.9		ug/L
3090056-04	MW-4	Chlorobenzene	8260B	10		ug/L

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Summary of Detections

09/17/2013

Prism Work Order: 3090056

Prism ID	Client ID	Parameter	Method	Result		Units
3090056-04	MW-4	cis-1,2-Dichloroethylene	8260B	2.8		ug/L
3090056-05	SW-2	Barium	6020A	180		ug/L
3090056-05	SW-2	Cobalt	6020A	8.5		ug/L
3090056-05	SW-2	Copper	6020A	0.51	J	ug/L
3090056-05	SW-2	Zinc	6020A	26		ug/L
3090056-05	SW-2	1,4-Dichlorobenzene	8260B	0.84		ug/L
3090056-05	SW-2	Chlorobenzene	8260B	2.5		ug/L
3090056-06	FD-1	Barium	6020A	450		ug/L
3090056-06	FD-1	Cadmium	6020A	0.74	J	ug/L
3090056-06	FD-1	Chromium	6020A	33		ug/L
3090056-06	FD-1	Cobalt	6020A	19		ug/L
3090056-06	FD-1	Copper	6020A	19		ug/L
3090056-06	FD-1	Lead	6020A	5.1		ug/L
3090056-06	FD-1	Nickel	6020A	22		ug/L
3090056-06	FD-1	Selenium	6020A	2.8	J, B	ug/L
3090056-06	FD-1	Vanadium	6020A	39		ug/L
3090056-06	FD-1	Zinc	6020A	100		ug/L
3090056-06	FD-1	1,4-Dichlorobenzene	8260B	3.2		ug/L
3090056-06	FD-1	Chlorobenzene	8260B	9.8		ug/L
3090056-06	FD-1	cis-1,2-Dichloroethylene	8260B	4.8		ug/L

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Laboratory Report

09/17/2013

AMEC Env. & Infrastructure Inc (Asheville)
Attn: Susan Kelly
1308 Patton Avenue
Asheville, NC 28806

Project: WCU MSWLF

Sample Matrix: Water

Client Sample ID: MW-1
Prism Sample ID: 3090056-01
Prism Work Order: 3090056
Time Collected: 09/04/13 16:30
Time Submitted: 09/05/13 09:51

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
3030C Metals									
Antimony	BRL	ug/L	5.0	1.4	5	6020A	9/13/13 17:25	BGM	P3I0100
Arsenic	BRL	ug/L	5.0	1.8	5	6020A	9/13/13 17:25	BGM	P3I0100
Barium	**350**	**ug/L**	**25**	**0.72**	**5**	**6020A**	**9/13/13 17:25**	**BGM**	**P3I0100**
Beryllium	**0.32 J**	**ug/L**	**1.0**	**0.18**	**1**	**6020A**	**9/16/13 20:01**	**BGM**	**P3I0100**
Cadmium	**1.7**	**ug/L**	**1.0**	**0.038**	**1**	**6020A**	**9/16/13 20:01**	**BGM**	**P3I0100**
Chromium	**18**	**ug/L**	**10**	**0.40**	**5**	**6020A**	**9/13/13 17:25**	**BGM**	**P3I0100**
Cobalt	**22**	**ug/L**	**5.0**	**0.065**	**5**	**6020A**	**9/13/13 17:25**	**BGM**	**P3I0100**
Copper	**61**	**ug/L**	**5.0**	**0.11**	**1**	**6020A**	**9/16/13 20:01**	**BGM**	**P3I0100**
Lead	**9.8**	**ug/L**	**5.0**	**0.74**	**5**	**6020A**	**9/13/13 17:25**	**BGM**	**P3I0100**
Nickel	**13**	**ug/L**	**10**	**0.79**	**5**	**6020A**	**9/13/13 17:25**	**BGM**	**P3I0100**
Selenium	**2.4 J, B**	**ug/L**	**5.0**	**0.93**	**5**	**6020A**	**9/13/13 17:25**	**BGM**	**P3I0100**
Silver	**0.15 J**	**ug/L**	**5.0**	**0.10**	**5**	**6020A**	**9/13/13 17:25**	**BGM**	**P3I0100**
Thallium	BRL	ug/L	5.0	0.65	5	6020A	9/13/13 17:25	BGM	P3I0100
Vanadium	**26**	**ug/L**	**25**	**3.6**	**5**	**6020A**	**9/13/13 17:25**	**BGM**	**P3I0100**
Zinc	**80**	**ug/L**	**10**	**1.4**	**1**	**6020A**	**9/16/13 20:01**	**BGM**	**P3I0100**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	8260B	9/6/13 17:40	VHL	P3I0108
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	8260B	9/6/13 17:40	VHL	P3I0108
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	9/6/13 17:40	VHL	P3I0108
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	8260B	9/6/13 17:40	VHL	P3I0108
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	8260B	9/6/13 17:40	VHL	P3I0108
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	9/6/13 17:40	VHL	P3I0108
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	9/6/13 17:40	VHL	P3I0108
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	9/6/13 17:40	VHL	P3I0108
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	9/6/13 17:40	VHL	P3I0108
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	9/6/13 17:40	VHL	P3I0108
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	8260B	9/6/13 17:40	VHL	P3I0108
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	9/6/13 17:40	VHL	P3I0108
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	8260B	9/6/13 17:40	VHL	P3I0108
Acetone	BRL	ug/L	5.0	0.62	1	8260B	9/6/13 17:40	VHL	P3I0108
Acrylonitrile	BRL	ug/L	20	0.86	1	8260B	9/6/13 17:40	VHL	P3I0108
Benzene	BRL	ug/L	0.50	0.072	1	8260B	9/6/13 17:40	VHL	P3I0108
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	9/6/13 17:40	VHL	P3I0108
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	9/6/13 17:40	VHL	P3I0108
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	9/6/13 17:40	VHL	P3I0108
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	9/6/13 17:40	VHL	P3I0108
Carbon disulfide	BRL	ug/L	5.0	1.4	1	8260B	9/6/13 17:40	VHL	P3I0108
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	8260B	9/6/13 17:40	VHL	P3I0108
Chlorobenzene	BRL	ug/L	0.50	0.061	1	8260B	9/6/13 17:40	VHL	P3I0108
Chloroethane	BRL	ug/L	0.50	0.13	1	8260B	9/6/13 17:40	VHL	P3I0108
Chloroform	BRL	ug/L	0.50	0.089	1	8260B	9/6/13 17:40	VHL	P3I0108

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AMEC Env. & Infrastructure Inc (Asheville)
Attn: Susan Kelly
1308 Patton Avenue
Asheville, NC 28806

Project: WCU MSWLF

Sample Matrix: Water

Client Sample ID: MW-1
Prism Sample ID: 3090056-01
Prism Work Order: 3090056
Time Collected: 09/04/13 16:30
Time Submitted: 09/05/13 09:51

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chloromethane	BRL	ug/L	0.50	0.11	1	8260B	9/6/13 17:40	VHL	P3I0108
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.076	1	8260B	9/6/13 17:40	VHL	P3I0108
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	9/6/13 17:40	VHL	P3I0108
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	8260B	9/6/13 17:40	VHL	P3I0108
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	9/6/13 17:40	VHL	P3I0108
Ethylbenzene	BRL	ug/L	0.50	0.067	1	8260B	9/6/13 17:40	VHL	P3I0108
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	8260B	9/6/13 17:40	VHL	P3I0108
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	9/6/13 17:40	VHL	P3I0108
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	9/6/13 17:40	VHL	P3I0108
Methyl Iodide	BRL	ug/L	5.0	0.45	1	8260B	9/6/13 17:40	VHL	P3I0108
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	9/6/13 17:40	VHL	P3I0108
Methylene Chloride	BRL	ug/L	1.0	0.44	1	8260B	9/6/13 17:40	VHL	P3I0108
o-Xylene	BRL	ug/L	0.50	0.046	1	8260B	9/6/13 17:40	VHL	P3I0108
Styrene	BRL	ug/L	0.50	0.047	1	8260B	9/6/13 17:40	VHL	P3I0108
Tetrachloroethylene	BRL	ug/L	0.50	0.069	1	8260B	9/6/13 17:40	VHL	P3I0108
Toluene	BRL	ug/L	0.50	0.042	1	8260B	9/6/13 17:40	VHL	P3I0108
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	9/6/13 17:40	VHL	P3I0108
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	9/6/13 17:40	VHL	P3I0108
trans-1,4-Dichloro-2-butene	BRL	ug/L	10	0.51	1	8260B	9/6/13 17:40	VHL	P3I0108
Trichloroethylene	BRL	ug/L	0.50	0.054	1	8260B	9/6/13 17:40	VHL	P3I0108
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	8260B	9/6/13 17:40	VHL	P3I0108
Vinyl acetate	BRL	ug/L	2.0	0.10	1	8260B	9/6/13 17:40	VHL	P3I0108
Vinyl chloride	BRL	ug/L	0.50	0.16	1	8260B	9/6/13 17:40	VHL	P3I0108
Xylenes, total	BRL	ug/L	3.0	0.13	1	8260B	9/6/13 17:40	VHL	P3I0108

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*104 %*	*80-124*
Dibromofluoromethane	*106 %*	*75-129*
Toluene-d8	*105 %*	*77-123*

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AMEC Env. & Infrastructure Inc (Asheville)
Attn: Susan Kelly
1308 Patton Avenue
Asheville, NC 28806

Project: WCU MSWLF

Sample Matrix: Water

Client Sample ID: MW-2
Prism Sample ID: 3090056-02
Prism Work Order: 3090056
Time Collected: 09/04/13 15:00
Time Submitted: 09/05/13 09:51

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
3030C Metals									
Antimony	BRL	ug/L	5.0	1.4	5	6020A	9/13/13 17:22	BGM	P3I0100
Arsenic	BRL	ug/L	5.0	1.8	5	6020A	9/13/13 17:22	BGM	P3I0100
Barium	**100**	**ug/L**	**25**	**0.72**	**5**	**6020A**	**9/13/13 17:22**	**BGM**	**P3I0100**
Beryllium	BRL	ug/L	1.0	0.18	1	6020A	9/16/13 19:49	BGM	P3I0100
Cadmium	**0.38 J**	**ug/L**	**1.0**	**0.038**	**1**	**6020A**	**9/16/13 19:49**	**BGM**	**P3I0100**
Chromium	BRL	ug/L	10	0.40	5	6020A	9/13/13 17:22	BGM	P3I0100
Cobalt	**0.66 J**	**ug/L**	**5.0**	**0.065**	**5**	**6020A**	**9/13/13 17:22**	**BGM**	**P3I0100**
Copper	**2.9 J**	**ug/L**	**5.0**	**0.11**	**1**	**6020A**	**9/16/13 19:49**	**BGM**	**P3I0100**
Lead	BRL	ug/L	5.0	0.74	5	6020A	9/13/13 17:22	BGM	P3I0100
Nickel	**1.8 J**	**ug/L**	**10**	**0.79**	**5**	**6020A**	**9/13/13 17:22**	**BGM**	**P3I0100**
Selenium	BRL	ug/L	5.0	0.93	5	6020A	9/13/13 17:22	BGM	P3I0100
Silver	BRL	ug/L	5.0	0.10	5	6020A	9/13/13 17:22	BGM	P3I0100
Thallium	BRL	ug/L	5.0	0.65	5	6020A	9/13/13 17:22	BGM	P3I0100
Vanadium	BRL	ug/L	25	3.6	5	6020A	9/13/13 17:22	BGM	P3I0100
Zinc	**21**	**ug/L**	**10**	**1.4**	**1**	**6020A**	**9/16/13 19:49**	**BGM**	**P3I0100**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	8260B	9/6/13 18:05	VHL	P3I0108
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	8260B	9/6/13 18:05	VHL	P3I0108
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	9/6/13 18:05	VHL	P3I0108
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	8260B	9/6/13 18:05	VHL	P3I0108
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	8260B	9/6/13 18:05	VHL	P3I0108
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	9/6/13 18:05	VHL	P3I0108
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	9/6/13 18:05	VHL	P3I0108
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	9/6/13 18:05	VHL	P3I0108
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	9/6/13 18:05	VHL	P3I0108
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	9/6/13 18:05	VHL	P3I0108
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	8260B	9/6/13 18:05	VHL	P3I0108
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	9/6/13 18:05	VHL	P3I0108
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	8260B	9/6/13 18:05	VHL	P3I0108
Acetone	BRL	ug/L	5.0	0.62	1	8260B	9/6/13 18:05	VHL	P3I0108
Acrylonitrile	BRL	ug/L	20	0.86	1	8260B	9/6/13 18:05	VHL	P3I0108
Benzene	BRL	ug/L	0.50	0.072	1	8260B	9/6/13 18:05	VHL	P3I0108
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	9/6/13 18:05	VHL	P3I0108
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	9/6/13 18:05	VHL	P3I0108
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	9/6/13 18:05	VHL	P3I0108
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	9/6/13 18:05	VHL	P3I0108
Carbon disulfide	BRL	ug/L	5.0	1.4	1	8260B	9/6/13 18:05	VHL	P3I0108
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	8260B	9/6/13 18:05	VHL	P3I0108
Chlorobenzene	BRL	ug/L	0.50	0.061	1	8260B	9/6/13 18:05	VHL	P3I0108
Chloroethane	BRL	ug/L	0.50	0.13	1	8260B	9/6/13 18:05	VHL	P3I0108
Chloroform	BRL	ug/L	0.50	0.089	1	8260B	9/6/13 18:05	VHL	P3I0108

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AMEC Env. & Infrastructure Inc (Asheville)
Attn: Susan Kelly
1308 Patton Avenue
Asheville, NC 28806

Project: WCU MSWLF

Sample Matrix: Water

Client Sample ID: MW-2
Prism Sample ID: 3090056-02
Prism Work Order: 3090056
Time Collected: 09/04/13 15:00
Time Submitted: 09/05/13 09:51

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chloromethane	BRL	ug/L	0.50	0.11	1	8260B	9/6/13 18:05	VHL	P3I0108
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.076	1	8260B	9/6/13 18:05	VHL	P3I0108
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	9/6/13 18:05	VHL	P3I0108
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	8260B	9/6/13 18:05	VHL	P3I0108
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	9/6/13 18:05	VHL	P3I0108
Ethylbenzene	BRL	ug/L	0.50	0.067	1	8260B	9/6/13 18:05	VHL	P3I0108
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	8260B	9/6/13 18:05	VHL	P3I0108
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	9/6/13 18:05	VHL	P3I0108
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	9/6/13 18:05	VHL	P3I0108
Methyl Iodide	BRL	ug/L	5.0	0.45	1	8260B	9/6/13 18:05	VHL	P3I0108
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	9/6/13 18:05	VHL	P3I0108
Methylene Chloride	BRL	ug/L	1.0	0.44	1	8260B	9/6/13 18:05	VHL	P3I0108
o-Xylene	BRL	ug/L	0.50	0.046	1	8260B	9/6/13 18:05	VHL	P3I0108
Styrene	BRL	ug/L	0.50	0.047	1	8260B	9/6/13 18:05	VHL	P3I0108
Tetrachloroethylene	BRL	ug/L	0.50	0.069	1	8260B	9/6/13 18:05	VHL	P3I0108
Toluene	BRL	ug/L	0.50	0.042	1	8260B	9/6/13 18:05	VHL	P3I0108
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	9/6/13 18:05	VHL	P3I0108
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	9/6/13 18:05	VHL	P3I0108
trans-1,4-Dichloro-2-butene	BRL	ug/L	10	0.51	1	8260B	9/6/13 18:05	VHL	P3I0108
Trichloroethylene	BRL	ug/L	0.50	0.054	1	8260B	9/6/13 18:05	VHL	P3I0108
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	8260B	9/6/13 18:05	VHL	P3I0108
Vinyl acetate	BRL	ug/L	2.0	0.10	1	8260B	9/6/13 18:05	VHL	P3I0108
Vinyl chloride	BRL	ug/L	0.50	0.16	1	8260B	9/6/13 18:05	VHL	P3I0108
Xylenes, total	BRL	ug/L	3.0	0.13	1	8260B	9/6/13 18:05	VHL	P3I0108

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*109 %*	*80-124*
Dibromofluoromethane	*107 %*	*75-129*
Toluene-d8	*104 %*	*77-123*

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

AMEC Env. & Infrastructure Inc (Asheville)
Attn: Susan Kelly
1308 Patton Avenue
Asheville, NC 28806

Project: WCU MSWLF

Sample Matrix: Water

Client Sample ID: MW-3
Prism Sample ID: 3090056-03
Prism Work Order: 3090056
Time Collected: 09/04/13 14:00
Time Submitted: 09/05/13 09:51

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
3030C Metals									
Antimony	BRL	ug/L	5.0	1.4	5	6020A	9/13/13 17:37	BGM	P3I0100
Arsenic	BRL	ug/L	5.0	1.8	5	6020A	9/13/13 17:37	BGM	P3I0100
Barium	**390**	**ug/L**	**25**	**0.73**	**5**	**6020A**	**9/13/13 17:37**	**BGM**	**P3I0100**
Beryllium	**0.20 J**	**ug/L**	**1.0**	**0.18**	**1**	**6020A**	**9/16/13 20:04**	**BGM**	**P3I0100**
Cadmium	**0.70 J**	**ug/L**	**1.0**	**0.038**	**1**	**6020A**	**9/16/13 20:04**	**BGM**	**P3I0100**
Chromium	**26**	**ug/L**	**10**	**0.41**	**5**	**6020A**	**9/13/13 17:37**	**BGM**	**P3I0100**
Cobalt	**17**	**ug/L**	**5.0**	**0.066**	**5**	**6020A**	**9/13/13 17:37**	**BGM**	**P3I0100**
Copper	**16**	**ug/L**	**5.0**	**0.11**	**1**	**6020A**	**9/16/13 20:04**	**BGM**	**P3I0100**
Lead	**4.3 J**	**ug/L**	**5.0**	**0.75**	**5**	**6020A**	**9/13/13 17:37**	**BGM**	**P3I0100**
Nickel	**19**	**ug/L**	**10**	**0.80**	**5**	**6020A**	**9/13/13 17:37**	**BGM**	**P3I0100**
Selenium	**2.3 J, B**	**ug/L**	**5.0**	**0.94**	**5**	**6020A**	**9/13/13 17:37**	**BGM**	**P3I0100**
Silver	BRL	ug/L	5.0	0.11	5	6020A	9/13/13 17:37	BGM	P3I0100
Thallium	BRL	ug/L	5.0	0.66	5	6020A	9/13/13 17:37	BGM	P3I0100
Vanadium	**50**	**ug/L**	**25**	**3.7**	**5**	**6020A**	**9/13/13 17:37**	**BGM**	**P3I0100**
Zinc	**95**	**ug/L**	**10**	**1.5**	**1**	**6020A**	**9/16/13 20:04**	**BGM**	**P3I0100**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	8260B	9/6/13 18:31	VHL	P3I0108
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	8260B	9/6/13 18:31	VHL	P3I0108
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	9/6/13 18:31	VHL	P3I0108
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	8260B	9/6/13 18:31	VHL	P3I0108
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	8260B	9/6/13 18:31	VHL	P3I0108
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	9/6/13 18:31	VHL	P3I0108
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	9/6/13 18:31	VHL	P3I0108
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	9/6/13 18:31	VHL	P3I0108
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	9/6/13 18:31	VHL	P3I0108
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	9/6/13 18:31	VHL	P3I0108
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	8260B	9/6/13 18:31	VHL	P3I0108
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	9/6/13 18:31	VHL	P3I0108
1,4-Dichlorobenzene	**3.2**	**ug/L**	**0.50**	**0.068**	**1**	**8260B**	**9/6/13 18:31**	**VHL**	**P3I0108**
Acetone	BRL	ug/L	5.0	0.62	1	8260B	9/6/13 18:31	VHL	P3I0108
Acrylonitrile	BRL	ug/L	20	0.86	1	8260B	9/6/13 18:31	VHL	P3I0108
Benzene	**0.51**	**ug/L**	**0.50**	**0.072**	**1**	**8260B**	**9/6/13 18:31**	**VHL**	**P3I0108**
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	9/6/13 18:31	VHL	P3I0108
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	9/6/13 18:31	VHL	P3I0108
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	9/6/13 18:31	VHL	P3I0108
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	9/6/13 18:31	VHL	P3I0108
Carbon disulfide	BRL	ug/L	5.0	1.4	1	8260B	9/6/13 18:31	VHL	P3I0108
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	8260B	9/6/13 18:31	VHL	P3I0108
Chlorobenzene	**11**	**ug/L**	**0.50**	**0.061**	**1**	**8260B**	**9/6/13 18:31**	**VHL**	**P3I0108**
Chloroethane	BRL	ug/L	0.50	0.13	1	8260B	9/6/13 18:31	VHL	P3I0108
Chloroform	BRL	ug/L	0.50	0.089	1	8260B	9/6/13 18:31	VHL	P3I0108

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AMEC Env. & Infrastructure Inc (Asheville)
Attn: Susan Kelly
1308 Patton Avenue
Asheville, NC 28806

Project: WCU MSWLF

Sample Matrix: Water

Client Sample ID: MW-3
Prism Sample ID: 3090056-03
Prism Work Order: 3090056
Time Collected: 09/04/13 14:00
Time Submitted: 09/05/13 09:51

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chloromethane	BRL	ug/L	0.50	0.11	1	8260B	9/6/13 18:31	VHL	P3I0108
cis-1,2-Dichloroethylene	**5.2**	**ug/L**	**0.50**	**0.076**	**1**	**8260B**	**9/6/13 18:31**	**VHL**	**P3I0108**
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	9/6/13 18:31	VHL	P3I0108
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	8260B	9/6/13 18:31	VHL	P3I0108
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	9/6/13 18:31	VHL	P3I0108
Ethylbenzene	BRL	ug/L	0.50	0.067	1	8260B	9/6/13 18:31	VHL	P3I0108
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	8260B	9/6/13 18:31	VHL	P3I0108
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	9/6/13 18:31	VHL	P3I0108
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	9/6/13 18:31	VHL	P3I0108
Methyl Iodide	BRL	ug/L	5.0	0.45	1	8260B	9/6/13 18:31	VHL	P3I0108
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	9/6/13 18:31	VHL	P3I0108
Methylene Chloride	BRL	ug/L	1.0	0.44	1	8260B	9/6/13 18:31	VHL	P3I0108
o-Xylene	BRL	ug/L	0.50	0.046	1	8260B	9/6/13 18:31	VHL	P3I0108
Styrene	BRL	ug/L	0.50	0.047	1	8260B	9/6/13 18:31	VHL	P3I0108
Tetrachloroethylene	BRL	ug/L	0.50	0.069	1	8260B	9/6/13 18:31	VHL	P3I0108
Toluene	BRL	ug/L	0.50	0.042	1	8260B	9/6/13 18:31	VHL	P3I0108
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	9/6/13 18:31	VHL	P3I0108
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	9/6/13 18:31	VHL	P3I0108
trans-1,4-Dichloro-2-butene	BRL	ug/L	10	0.51	1	8260B	9/6/13 18:31	VHL	P3I0108
Trichloroethylene	BRL	ug/L	0.50	0.054	1	8260B	9/6/13 18:31	VHL	P3I0108
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	8260B	9/6/13 18:31	VHL	P3I0108
Vinyl acetate	BRL	ug/L	2.0	0.10	1	8260B	9/6/13 18:31	VHL	P3I0108
Vinyl chloride	BRL	ug/L	0.50	0.16	1	8260B	9/6/13 18:31	VHL	P3I0108
Xylenes, total	BRL	ug/L	3.0	0.13	1	8260B	9/6/13 18:31	VHL	P3I0108

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*110 %*	*80-124*
Dibromofluoromethane	*106 %*	*75-129*
Toluene-d8	*105 %*	*77-123*

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Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

AMEC Env. & Infrastructure Inc (Asheville)
Attn: Susan Kelly
1308 Patton Avenue
Asheville, NC 28806

Project: WCU MSWLF

Sample Matrix: Water

Client Sample ID: MW-4
Prism Sample ID: 3090056-04
Prism Work Order: 3090056
Time Collected: 09/04/13 13:00
Time Submitted: 09/05/13 09:51

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
3030C Metals									
Antimony	BRL	ug/L	5.0	1.4	5	6020A	9/13/13 17:40	BGM	P3I0100
Arsenic	BRL	ug/L	5.0	1.8	5	6020A	9/13/13 17:40	BGM	P3I0100
Barium	**190**	**ug/L**	**25**	**0.72**	**5**	**6020A**	**9/13/13 17:40**	**BGM**	**P3I0100**
Beryllium	BRL	ug/L	1.0	0.18	1	6020A	9/16/13 20:08	BGM	P3I0100
Cadmium	**0.26 J**	**ug/L**	**1.0**	**0.038**	**1**	**6020A**	**9/16/13 20:08**	**BGM**	**P3I0100**
Chromium	**8.0 J**	**ug/L**	**10**	**0.40**	**5**	**6020A**	**9/13/13 17:40**	**BGM**	**P3I0100**
Cobalt	**3.1 J**	**ug/L**	**5.0**	**0.065**	**5**	**6020A**	**9/13/13 17:40**	**BGM**	**P3I0100**
Copper	**7.8**	**ug/L**	**5.0**	**0.11**	**1**	**6020A**	**9/16/13 20:08**	**BGM**	**P3I0100**
Lead	**1.6 J**	**ug/L**	**5.0**	**0.74**	**5**	**6020A**	**9/13/13 17:40**	**BGM**	**P3I0100**
Nickel	**3.0 J**	**ug/L**	**10**	**0.79**	**5**	**6020A**	**9/13/13 17:40**	**BGM**	**P3I0100**
Selenium	BRL	ug/L	5.0	0.93	5	6020A	9/13/13 17:40	BGM	P3I0100
Silver	BRL	ug/L	5.0	0.10	5	6020A	9/13/13 17:40	BGM	P3I0100
Thallium	BRL	ug/L	5.0	0.65	5	6020A	9/13/13 17:40	BGM	P3I0100
Vanadium	**10 J**	**ug/L**	**25**	**3.6**	**5**	**6020A**	**9/13/13 17:40**	**BGM**	**P3I0100**
Zinc	**46**	**ug/L**	**10**	**1.4**	**1**	**6020A**	**9/16/13 20:08**	**BGM**	**P3I0100**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	8260B	9/6/13 18:57	VHL	P3I0108
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	8260B	9/6/13 18:57	VHL	P3I0108
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	9/6/13 18:57	VHL	P3I0108
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	8260B	9/6/13 18:57	VHL	P3I0108
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	8260B	9/6/13 18:57	VHL	P3I0108
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	9/6/13 18:57	VHL	P3I0108
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	9/6/13 18:57	VHL	P3I0108
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	9/6/13 18:57	VHL	P3I0108
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	9/6/13 18:57	VHL	P3I0108
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	9/6/13 18:57	VHL	P3I0108
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	8260B	9/6/13 18:57	VHL	P3I0108
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	9/6/13 18:57	VHL	P3I0108
1,4-Dichlorobenzene	**3.9**	**ug/L**	**0.50**	**0.068**	**1**	**8260B**	**9/6/13 18:57**	**VHL**	**P3I0108**
Acetone	BRL	ug/L	5.0	0.62	1	8260B	9/6/13 18:57	VHL	P3I0108
Acrylonitrile	BRL	ug/L	20	0.86	1	8260B	9/6/13 18:57	VHL	P3I0108
Benzene	BRL	ug/L	0.50	0.072	1	8260B	9/6/13 18:57	VHL	P3I0108
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	9/6/13 18:57	VHL	P3I0108
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	9/6/13 18:57	VHL	P3I0108
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	9/6/13 18:57	VHL	P3I0108
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	9/6/13 18:57	VHL	P3I0108
Carbon disulfide	BRL	ug/L	5.0	1.4	1	8260B	9/6/13 18:57	VHL	P3I0108
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	8260B	9/6/13 18:57	VHL	P3I0108
Chlorobenzene	**10**	**ug/L**	**0.50**	**0.061**	**1**	**8260B**	**9/6/13 18:57**	**VHL**	**P3I0108**
Chloroethane	BRL	ug/L	0.50	0.13	1	8260B	9/6/13 18:57	VHL	P3I0108
Chloroform	BRL	ug/L	0.50	0.089	1	8260B	9/6/13 18:57	VHL	P3I0108

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AMEC Env. & Infrastructure Inc (Asheville)
Attn: Susan Kelly
1308 Patton Avenue
Asheville, NC 28806

Project: WCU MSWLF

Sample Matrix: Water

Client Sample ID: MW-4
Prism Sample ID: 3090056-04
Prism Work Order: 3090056
Time Collected: 09/04/13 13:00
Time Submitted: 09/05/13 09:51

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chloromethane	BRL	ug/L	0.50	0.11	1	8260B	9/6/13 18:57	VHL	P3I0108
cis-1,2-Dichloroethylene	**2.8**	**ug/L**	**0.50**	**0.076**	**1**	**8260B**	**9/6/13 18:57**	**VHL**	**P3I0108**
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	9/6/13 18:57	VHL	P3I0108
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	8260B	9/6/13 18:57	VHL	P3I0108
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	9/6/13 18:57	VHL	P3I0108
Ethylbenzene	BRL	ug/L	0.50	0.067	1	8260B	9/6/13 18:57	VHL	P3I0108
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	8260B	9/6/13 18:57	VHL	P3I0108
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	9/6/13 18:57	VHL	P3I0108
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	9/6/13 18:57	VHL	P3I0108
Methyl Iodide	BRL	ug/L	5.0	0.45	1	8260B	9/6/13 18:57	VHL	P3I0108
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	9/6/13 18:57	VHL	P3I0108
Methylene Chloride	BRL	ug/L	1.0	0.44	1	8260B	9/6/13 18:57	VHL	P3I0108
o-Xylene	BRL	ug/L	0.50	0.046	1	8260B	9/6/13 18:57	VHL	P3I0108
Styrene	BRL	ug/L	0.50	0.047	1	8260B	9/6/13 18:57	VHL	P3I0108
Tetrachloroethylene	BRL	ug/L	0.50	0.069	1	8260B	9/6/13 18:57	VHL	P3I0108
Toluene	BRL	ug/L	0.50	0.042	1	8260B	9/6/13 18:57	VHL	P3I0108
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	9/6/13 18:57	VHL	P3I0108
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	9/6/13 18:57	VHL	P3I0108
trans-1,4-Dichloro-2-butene	BRL	ug/L	10	0.51	1	8260B	9/6/13 18:57	VHL	P3I0108
Trichloroethylene	BRL	ug/L	0.50	0.054	1	8260B	9/6/13 18:57	VHL	P3I0108
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	8260B	9/6/13 18:57	VHL	P3I0108
Vinyl acetate	BRL	ug/L	2.0	0.10	1	8260B	9/6/13 18:57	VHL	P3I0108
Vinyl chloride	BRL	ug/L	0.50	0.16	1	8260B	9/6/13 18:57	VHL	P3I0108
Xylenes, total	BRL	ug/L	3.0	0.13	1	8260B	9/6/13 18:57	VHL	P3I0108

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*104 %*	*80-124*
Dibromofluoromethane	*108 %*	*75-129*
Toluene-d8	*103 %*	*77-123*

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

AMEC Env. & Infrastructure Inc (Asheville)
Attn: Susan Kelly
1308 Patton Avenue
Asheville, NC 28806

Project: WCU MSWLF

Sample Matrix: Water

Client Sample ID: SW-2
Prism Sample ID: 3090056-05
Prism Work Order: 3090056
Time Collected: 09/04/13 12:30
Time Submitted: 09/05/13 09:51

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
3030C Metals									
Antimony	BRL	ug/L	5.0	1.4	5	6020A	9/13/13 17:43	BGM	P3I0100
Arsenic	BRL	ug/L	5.0	1.8	5	6020A	9/13/13 17:43	BGM	P3I0100
Barium	**180**	**ug/L**	**25**	**0.72**	**5**	**6020A**	**9/13/13 17:43**	**BGM**	**P3I0100**
Beryllium	BRL	ug/L	1.0	0.18	1	6020A	9/16/13 20:11	BGM	P3I0100
Cadmium	BRL	ug/L	1.0	0.038	1	6020A	9/16/13 20:11	BGM	P3I0100
Chromium	BRL	ug/L	10	0.41	5	6020A	9/13/13 17:43	BGM	P3I0100
Cobalt	**8.5**	**ug/L**	**5.0**	**0.065**	**5**	**6020A**	**9/13/13 17:43**	**BGM**	**P3I0100**
Copper	**0.51 J**	**ug/L**	**5.0**	**0.11**	**1**	**6020A**	**9/16/13 20:11**	**BGM**	**P3I0100**
Lead	BRL	ug/L	5.0	0.75	5	6020A	9/13/13 17:43	BGM	P3I0100
Nickel	BRL	ug/L	10	0.80	5	6020A	9/13/13 17:43	BGM	P3I0100
Selenium	BRL	ug/L	5.0	0.94	5	6020A	9/13/13 17:43	BGM	P3I0100
Silver	BRL	ug/L	5.0	0.11	5	6020A	9/13/13 17:43	BGM	P3I0100
Thallium	BRL	ug/L	5.0	0.65	5	6020A	9/13/13 17:43	BGM	P3I0100
Vanadium	BRL	ug/L	25	3.7	5	6020A	9/13/13 17:43	BGM	P3I0100
Zinc	**26**	**ug/L**	**10**	**1.5**	**1**	**6020A**	**9/16/13 20:11**	**BGM**	**P3I0100**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	8260B	9/6/13 19:22	VHL	P3I0108
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	8260B	9/6/13 19:22	VHL	P3I0108
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	9/6/13 19:22	VHL	P3I0108
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	8260B	9/6/13 19:22	VHL	P3I0108
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	8260B	9/6/13 19:22	VHL	P3I0108
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	9/6/13 19:22	VHL	P3I0108
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	9/6/13 19:22	VHL	P3I0108
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	9/6/13 19:22	VHL	P3I0108
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	9/6/13 19:22	VHL	P3I0108
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	9/6/13 19:22	VHL	P3I0108
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	8260B	9/6/13 19:22	VHL	P3I0108
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	9/6/13 19:22	VHL	P3I0108
1,4-Dichlorobenzene	**0.84**	**ug/L**	**0.50**	**0.068**	**1**	**8260B**	**9/6/13 19:22**	**VHL**	**P3I0108**
Acetone	BRL	ug/L	5.0	0.62	1	8260B	9/6/13 19:22	VHL	P3I0108
Acrylonitrile	BRL	ug/L	20	0.86	1	8260B	9/6/13 19:22	VHL	P3I0108
Benzene	BRL	ug/L	0.50	0.072	1	8260B	9/6/13 19:22	VHL	P3I0108
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	9/6/13 19:22	VHL	P3I0108
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	9/6/13 19:22	VHL	P3I0108
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	9/6/13 19:22	VHL	P3I0108
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	9/6/13 19:22	VHL	P3I0108
Carbon disulfide	BRL	ug/L	5.0	1.4	1	8260B	9/6/13 19:22	VHL	P3I0108
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	8260B	9/6/13 19:22	VHL	P3I0108
Chlorobenzene	**2.5**	**ug/L**	**0.50**	**0.061**	**1**	**8260B**	**9/6/13 19:22**	**VHL**	**P3I0108**
Chloroethane	BRL	ug/L	0.50	0.13	1	8260B	9/6/13 19:22	VHL	P3I0108
Chloroform	BRL	ug/L	0.50	0.089	1	8260B	9/6/13 19:22	VHL	P3I0108

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

AMEC Env. & Infrastructure Inc (Asheville)
Attn: Susan Kelly
1308 Patton Avenue
Asheville, NC 28806

Project: WCU MSWLF

Sample Matrix: Water

Client Sample ID: SW-2
Prism Sample ID: 3090056-05
Prism Work Order: 3090056
Time Collected: 09/04/13 12:30
Time Submitted: 09/05/13 09:51

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chloromethane	BRL	ug/L	0.50	0.11	1	8260B	9/6/13 19:22	VHL	P3I0108
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.076	1	8260B	9/6/13 19:22	VHL	P3I0108
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	9/6/13 19:22	VHL	P3I0108
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	8260B	9/6/13 19:22	VHL	P3I0108
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	9/6/13 19:22	VHL	P3I0108
Ethylbenzene	BRL	ug/L	0.50	0.067	1	8260B	9/6/13 19:22	VHL	P3I0108
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	8260B	9/6/13 19:22	VHL	P3I0108
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	9/6/13 19:22	VHL	P3I0108
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	9/6/13 19:22	VHL	P3I0108
Methyl Iodide	BRL	ug/L	5.0	0.45	1	8260B	9/6/13 19:22	VHL	P3I0108
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	9/6/13 19:22	VHL	P3I0108
Methylene Chloride	BRL	ug/L	1.0	0.44	1	8260B	9/6/13 19:22	VHL	P3I0108
o-Xylene	BRL	ug/L	0.50	0.046	1	8260B	9/6/13 19:22	VHL	P3I0108
Styrene	BRL	ug/L	0.50	0.047	1	8260B	9/6/13 19:22	VHL	P3I0108
Tetrachloroethylene	BRL	ug/L	0.50	0.069	1	8260B	9/6/13 19:22	VHL	P3I0108
Toluene	BRL	ug/L	0.50	0.042	1	8260B	9/6/13 19:22	VHL	P3I0108
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	9/6/13 19:22	VHL	P3I0108
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	9/6/13 19:22	VHL	P3I0108
trans-1,4-Dichloro-2-butene	BRL	ug/L	10	0.51	1	8260B	9/6/13 19:22	VHL	P3I0108
Trichloroethylene	BRL	ug/L	0.50	0.054	1	8260B	9/6/13 19:22	VHL	P3I0108
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	8260B	9/6/13 19:22	VHL	P3I0108
Vinyl acetate	BRL	ug/L	2.0	0.10	1	8260B	9/6/13 19:22	VHL	P3I0108
Vinyl chloride	BRL	ug/L	0.50	0.16	1	8260B	9/6/13 19:22	VHL	P3I0108
Xylenes, total	BRL	ug/L	3.0	0.13	1	8260B	9/6/13 19:22	VHL	P3I0108

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*106 %*	*80-124*
Dibromofluoromethane	*108 %*	*75-129*
Toluene-d8	*103 %*	*77-123*

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

AMEC Env. & Infrastructure Inc (Asheville)
Attn: Susan Kelly
1308 Patton Avenue
Asheville, NC 28806

Project: WCU MSWLF

Sample Matrix: Water

Client Sample ID: FD-1
Prism Sample ID: 3090056-06
Prism Work Order: 3090056
Time Collected: 09/04/13 12:30
Time Submitted: 09/05/13 09:51

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
3030C Metals									
Antimony	BRL	ug/L	5.1	1.4	5	6020A	9/13/13 17:47	BGM	P3I0100
Arsenic	BRL	ug/L	5.1	1.8	5	6020A	9/13/13 17:47	BGM	P3I0100
Barium	**450**	**ug/L**	**26**	**0.74**	**5**	**6020A**	**9/13/13 17:47**	**BGM**	**P3I0100**
Beryllium	BRL	ug/L	1.0	0.18	1	6020A	9/16/13 20:15	BGM	P3I0100
Cadmium	**0.74 J**	**ug/L**	**1.0**	**0.039**	**1**	**6020A**	**9/16/13 20:15**	**BGM**	**P3I0100**
Chromium	**33**	**ug/L**	**10**	**0.41**	**5**	**6020A**	**9/13/13 17:47**	**BGM**	**P3I0100**
Cobalt	**19**	**ug/L**	**5.1**	**0.067**	**5**	**6020A**	**9/13/13 17:47**	**BGM**	**P3I0100**
Copper	**19**	**ug/L**	**5.1**	**0.11**	**1**	**6020A**	**9/16/13 20:15**	**BGM**	**P3I0100**
Lead	**5.1**	**ug/L**	**5.1**	**0.76**	**5**	**6020A**	**9/13/13 17:47**	**BGM**	**P3I0100**
Nickel	**22**	**ug/L**	**10**	**0.81**	**5**	**6020A**	**9/13/13 17:47**	**BGM**	**P3I0100**
Selenium	**2.8 J, B**	**ug/L**	**5.1**	**0.96**	**5**	**6020A**	**9/13/13 17:47**	**BGM**	**P3I0100**
Silver	BRL	ug/L	5.1	0.11	5	6020A	9/13/13 17:47	BGM	P3I0100
Thallium	BRL	ug/L	5.1	0.67	5	6020A	9/13/13 17:47	BGM	P3I0100
Vanadium	**39**	**ug/L**	**26**	**3.7**	**5**	**6020A**	**9/13/13 17:47**	**BGM**	**P3I0100**
Zinc	**100**	**ug/L**	**10**	**1.5**	**1**	**6020A**	**9/16/13 20:15**	**BGM**	**P3I0100**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	8260B	9/6/13 19:48	VHL	P3I0108
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	8260B	9/6/13 19:48	VHL	P3I0108
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	9/6/13 19:48	VHL	P3I0108
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	8260B	9/6/13 19:48	VHL	P3I0108
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	8260B	9/6/13 19:48	VHL	P3I0108
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	9/6/13 19:48	VHL	P3I0108
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	9/6/13 19:48	VHL	P3I0108
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	9/6/13 19:48	VHL	P3I0108
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	9/6/13 19:48	VHL	P3I0108
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	9/6/13 19:48	VHL	P3I0108
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	8260B	9/6/13 19:48	VHL	P3I0108
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	9/6/13 19:48	VHL	P3I0108
1,4-Dichlorobenzene	**3.2**	**ug/L**	**0.50**	**0.068**	**1**	**8260B**	**9/6/13 19:48**	**VHL**	**P3I0108**
Acetone	BRL	ug/L	5.0	0.62	1	8260B	9/6/13 19:48	VHL	P3I0108
Acrylonitrile	BRL	ug/L	20	0.86	1	8260B	9/6/13 19:48	VHL	P3I0108
Benzene	BRL	ug/L	0.50	0.072	1	8260B	9/6/13 19:48	VHL	P3I0108
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	9/6/13 19:48	VHL	P3I0108
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	9/6/13 19:48	VHL	P3I0108
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	9/6/13 19:48	VHL	P3I0108
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	9/6/13 19:48	VHL	P3I0108
Carbon disulfide	BRL	ug/L	5.0	1.4	1	8260B	9/6/13 19:48	VHL	P3I0108
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	8260B	9/6/13 19:48	VHL	P3I0108
Chlorobenzene	**9.8**	**ug/L**	**0.50**	**0.061**	**1**	**8260B**	**9/6/13 19:48**	**VHL**	**P3I0108**
Chloroethane	BRL	ug/L	0.50	0.13	1	8260B	9/6/13 19:48	VHL	P3I0108
Chloroform	BRL	ug/L	0.50	0.089	1	8260B	9/6/13 19:48	VHL	P3I0108

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AMEC Env. & Infrastructure Inc (Asheville)
Attn: Susan Kelly
1308 Patton Avenue
Asheville, NC 28806

Project: WCU MSWLF

Sample Matrix: Water

Client Sample ID: FD-1
Prism Sample ID: 3090056-06
Prism Work Order: 3090056
Time Collected: 09/04/13 12:30
Time Submitted: 09/05/13 09:51

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chloromethane	BRL	ug/L	0.50	0.11	1	8260B	9/6/13 19:48	VHL	P3I0108
cis-1,2-Dichloroethylene	**4.8**	**ug/L**	**0.50**	**0.076**	**1**	**8260B**	**9/6/13 19:48**	**VHL**	**P3I0108**
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	9/6/13 19:48	VHL	P3I0108
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	8260B	9/6/13 19:48	VHL	P3I0108
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	9/6/13 19:48	VHL	P3I0108
Ethylbenzene	BRL	ug/L	0.50	0.067	1	8260B	9/6/13 19:48	VHL	P3I0108
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	8260B	9/6/13 19:48	VHL	P3I0108
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	9/6/13 19:48	VHL	P3I0108
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	9/6/13 19:48	VHL	P3I0108
Methyl Iodide	BRL	ug/L	5.0	0.45	1	8260B	9/6/13 19:48	VHL	P3I0108
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	9/6/13 19:48	VHL	P3I0108
Methylene Chloride	BRL	ug/L	1.0	0.44	1	8260B	9/6/13 19:48	VHL	P3I0108
o-Xylene	BRL	ug/L	0.50	0.046	1	8260B	9/6/13 19:48	VHL	P3I0108
Styrene	BRL	ug/L	0.50	0.047	1	8260B	9/6/13 19:48	VHL	P3I0108
Tetrachloroethylene	BRL	ug/L	0.50	0.069	1	8260B	9/6/13 19:48	VHL	P3I0108
Toluene	BRL	ug/L	0.50	0.042	1	8260B	9/6/13 19:48	VHL	P3I0108
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	9/6/13 19:48	VHL	P3I0108
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	9/6/13 19:48	VHL	P3I0108
trans-1,4-Dichloro-2-butene	BRL	ug/L	10	0.51	1	8260B	9/6/13 19:48	VHL	P3I0108
Trichloroethylene	BRL	ug/L	0.50	0.054	1	8260B	9/6/13 19:48	VHL	P3I0108
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	8260B	9/6/13 19:48	VHL	P3I0108
Vinyl acetate	BRL	ug/L	2.0	0.10	1	8260B	9/6/13 19:48	VHL	P3I0108
Vinyl chloride	BRL	ug/L	0.50	0.16	1	8260B	9/6/13 19:48	VHL	P3I0108
Xylenes, total	BRL	ug/L	3.0	0.13	1	8260B	9/6/13 19:48	VHL	P3I0108

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*102 %*	*80-124*
Dibromofluoromethane	*106 %*	*75-129*
Toluene-d8	*105 %*	*77-123*

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AMEC Env. & Infrastructure Inc (Asheville)
Attn: Susan Kelly
1308 Patton Avenue
Asheville, NC 28806

Project: WCU MSWLF

Sample Matrix: Water

Client Sample ID: TB-1
Prism Sample ID: 3090056-07
Prism Work Order: 3090056
Time Collected: 09/04/13 00:00
Time Submitted: 09/05/13 09:51

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	8260B	9/6/13 17:14	VHL	P3I0108
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	8260B	9/6/13 17:14	VHL	P3I0108
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	9/6/13 17:14	VHL	P3I0108
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	8260B	9/6/13 17:14	VHL	P3I0108
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	8260B	9/6/13 17:14	VHL	P3I0108
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	9/6/13 17:14	VHL	P3I0108
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	9/6/13 17:14	VHL	P3I0108
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	9/6/13 17:14	VHL	P3I0108
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	9/6/13 17:14	VHL	P3I0108
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	9/6/13 17:14	VHL	P3I0108
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	8260B	9/6/13 17:14	VHL	P3I0108
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	9/6/13 17:14	VHL	P3I0108
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	8260B	9/6/13 17:14	VHL	P3I0108
Acetone	BRL	ug/L	5.0	0.62	1	8260B	9/6/13 17:14	VHL	P3I0108
Acrylonitrile	BRL	ug/L	20	0.86	1	8260B	9/6/13 17:14	VHL	P3I0108
Benzene	BRL	ug/L	0.50	0.072	1	8260B	9/6/13 17:14	VHL	P3I0108
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	9/6/13 17:14	VHL	P3I0108
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	9/6/13 17:14	VHL	P3I0108
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	9/6/13 17:14	VHL	P3I0108
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	9/6/13 17:14	VHL	P3I0108
Carbon disulfide	BRL	ug/L	5.0	1.4	1	8260B	9/6/13 17:14	VHL	P3I0108
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	8260B	9/6/13 17:14	VHL	P3I0108
Chlorobenzene	BRL	ug/L	0.50	0.061	1	8260B	9/6/13 17:14	VHL	P3I0108
Chloroethane	BRL	ug/L	0.50	0.13	1	8260B	9/6/13 17:14	VHL	P3I0108
Chloroform	BRL	ug/L	0.50	0.089	1	8260B	9/6/13 17:14	VHL	P3I0108
Chloromethane	BRL	ug/L	0.50	0.11	1	8260B	9/6/13 17:14	VHL	P3I0108
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.076	1	8260B	9/6/13 17:14	VHL	P3I0108
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	9/6/13 17:14	VHL	P3I0108
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	8260B	9/6/13 17:14	VHL	P3I0108
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	9/6/13 17:14	VHL	P3I0108
Ethylbenzene	BRL	ug/L	0.50	0.067	1	8260B	9/6/13 17:14	VHL	P3I0108
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	8260B	9/6/13 17:14	VHL	P3I0108
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	9/6/13 17:14	VHL	P3I0108
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	9/6/13 17:14	VHL	P3I0108
Methyl Iodide	BRL	ug/L	5.0	0.45	1	8260B	9/6/13 17:14	VHL	P3I0108
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	9/6/13 17:14	VHL	P3I0108
Methylene Chloride	BRL	ug/L	1.0	0.44	1	8260B	9/6/13 17:14	VHL	P3I0108
o-Xylene	BRL	ug/L	0.50	0.046	1	8260B	9/6/13 17:14	VHL	P3I0108
Styrene	BRL	ug/L	0.50	0.047	1	8260B	9/6/13 17:14	VHL	P3I0108
Tetrachloroethylene	BRL	ug/L	0.50	0.069	1	8260B	9/6/13 17:14	VHL	P3I0108
Toluene	BRL	ug/L	0.50	0.042	1	8260B	9/6/13 17:14	VHL	P3I0108
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	9/6/13 17:14	VHL	P3I0108

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AMEC Env. & Infrastructure Inc (Asheville)
Attn: Susan Kelly
1308 Patton Avenue
Asheville, NC 28806

Project: WCU MSWLF

Sample Matrix: Water

Client Sample ID: TB-1
Prism Sample ID: 3090056-07
Prism Work Order: 3090056
Time Collected: 09/04/13 00:00
Time Submitted: 09/05/13 09:51

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	9/6/13 17:14	VHL	P3I0108
trans-1,4-Dichloro-2-butene	BRL	ug/L	10	0.51	1	8260B	9/6/13 17:14	VHL	P3I0108
Trichloroethylene	BRL	ug/L	0.50	0.054	1	8260B	9/6/13 17:14	VHL	P3I0108
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	8260B	9/6/13 17:14	VHL	P3I0108
Vinyl acetate	BRL	ug/L	2.0	0.10	1	8260B	9/6/13 17:14	VHL	P3I0108
Vinyl chloride	BRL	ug/L	0.50	0.16	1	8260B	9/6/13 17:14	VHL	P3I0108
Xylenes, total	BRL	ug/L	3.0	0.13	1	8260B	9/6/13 17:14	VHL	P3I0108

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*110 %*	*80-124*
Dibromofluoromethane	*106 %*	*75-129*
Toluene-d8	*104 %*	*77-123*

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AMEC Env. & Infrastructure Inc (Asheville) Project: WCU MSWLF
Attn: Susan Kelly
1308 Patton Avenue
Asheville, NC 28806

Prism Work Order: 3090056
Time Submitted: 9/5/2013 9:51:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3I0108 - 5030B										
Blank (P3I0108-BLK1)				Prepared & Analyzed: 09/06/13						
1,1,1,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,1-Trichloroethane	BRL	0.50	ug/L							
1,1,2,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,2-Trichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethylene	BRL	0.50	ug/L							
1,2,3-Trichloropropane	BRL	1.0	ug/L							
1,2-Dibromo-3-chloropropane	BRL	2.0	ug/L							
1,2-Dibromoethane	BRL	0.50	ug/L							
1,2-Dichlorobenzene	BRL	0.50	ug/L							
1,2-Dichloroethane	BRL	0.50	ug/L							
1,2-Dichloropropane	BRL	0.50	ug/L							
1,4-Dichlorobenzene	BRL	0.50	ug/L							
Acetone	BRL	5.0	ug/L							
Acrylonitrile	BRL	20	ug/L							
Benzene	BRL	0.50	ug/L							
Bromochloromethane	BRL	0.50	ug/L							
Bromodichloromethane	BRL	0.50	ug/L							
Bromoform	BRL	1.0	ug/L							
Bromomethane	BRL	1.0	ug/L							
Carbon disulfide	BRL	5.0	ug/L							
Carbon Tetrachloride	BRL	0.50	ug/L							
Chlorobenzene	BRL	0.50	ug/L							
Chloroethane	BRL	0.50	ug/L							
Chloroform	BRL	0.50	ug/L							
Chloromethane	BRL	0.50	ug/L							
cis-1,2-Dichloroethylene	BRL	0.50	ug/L							
cis-1,3-Dichloropropylene	BRL	0.50	ug/L							
Dibromochloromethane	BRL	0.50	ug/L							
Dibromomethane	BRL	0.50	ug/L							
Ethylbenzene	BRL	0.50	ug/L							
m,p-Xylenes	BRL	1.0	ug/L							
Methyl Butyl Ketone (2-Hexanone)	BRL	5.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	BRL	5.0	ug/L							
Methyl Iodide	BRL	5.0	ug/L							
Methyl Isobutyl Ketone	BRL	5.0	ug/L							
Methylene Chloride	BRL	1.0	ug/L							
o-Xylene	BRL	0.50	ug/L							
Styrene	BRL	0.50	ug/L							
Tetrachloroethylene	BRL	0.50	ug/L							
Toluene	BRL	0.50	ug/L							
trans-1,2-Dichloroethylene	BRL	0.50	ug/L							
trans-1,3-Dichloropropylene	BRL	0.50	ug/L							
trans-1,4-Dichloro-2-butene	BRL	10	ug/L							
Trichloroethylene	BRL	0.50	ug/L							
Trichlorofluoromethane	BRL	0.50	ug/L							

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Attn: Susan Kelly
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Prism Work Order: 3090056
Time Submitted: 9/5/2013 9:51:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3I0108 - 5030B										
Blank (P3I0108-BLK1)				Prepared & Analyzed: 09/06/13						
Vinyl acetate	BRL	2.0	ug/L							
Vinyl chloride	BRL	0.50	ug/L							
Xylenes, total	BRL	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*56.0*		*ug/L*	*50.00*		*112*	*80-124*			
Surrogate: Dibromofluoromethane	*52.1*		*ug/L*	*50.00*		*104*	*75-129*			
Surrogate: Toluene-d8	*52.5*		*ug/L*	*50.00*		*105*	*77-123*			
LCS (P3I0108-BS1)				Prepared & Analyzed: 09/06/13						
1,1-Dichloroethylene	16.8	0.50	ug/L	20.00		84	70-154			
Benzene	16.1	0.50	ug/L	20.00		80	77-128			
Chlorobenzene	18.2	0.50	ug/L	20.00		91	78-119			
Toluene	16.4	0.50	ug/L	20.00		82	76-131			
Trichloroethylene	16.5	0.50	ug/L	20.00		82	77-133			
Surrogate: 4-Bromofluorobenzene	*55.1*		*ug/L*	*50.00*		*110*	*80-124*			
Surrogate: Dibromofluoromethane	*52.0*		*ug/L*	*50.00*		*104*	*75-129*			
Surrogate: Toluene-d8	*52.6*		*ug/L*	*50.00*		*105*	*77-123*			
LCS Dup (P3I0108-BSD1)				Prepared & Analyzed: 09/06/13						
1,1-Dichloroethylene	19.0	0.50	ug/L	20.00		95	70-154	12	20	
Benzene	17.7	0.50	ug/L	20.00		88	77-128	9	20	
Chlorobenzene	20.2	0.50	ug/L	20.00		101	78-119	11	20	
Toluene	18.4	0.50	ug/L	20.00		92	76-131	11	20	
Trichloroethylene	18.8	0.50	ug/L	20.00		94	77-133	13	20	
Surrogate: 4-Bromofluorobenzene	*55.1*		*ug/L*	*50.00*		*110*	*80-124*			
Surrogate: Dibromofluoromethane	*52.0*		*ug/L*	*50.00*		*104*	*75-129*			
Surrogate: Toluene-d8	*53.5*		*ug/L*	*50.00*		*107*	*77-123*			
Matrix Spike (P3I0108-MS1)	**Source: 3090056-01**			Prepared & Analyzed: 09/06/13						
1,1-Dichloroethylene	210	5.0	ug/L	200.0	BRL	105	65-162			
Benzene	166	5.0	ug/L	200.0	BRL	83	73-131			
Chlorobenzene	180	5.0	ug/L	200.0	BRL	90	76-119			
Toluene	168	5.0	ug/L	200.0	BRL	84	72-135			
Trichloroethylene	174	5.0	ug/L	200.0	BRL	87	72-133			
Surrogate: 4-Bromofluorobenzene	*522*		*ug/L*	*500.0*		*104*	*80-124*			
Surrogate: Dibromofluoromethane	*528*		*ug/L*	*500.0*		*106*	*75-129*			
Surrogate: Toluene-d8	*490*		*ug/L*	*500.0*		*98*	*77-123*			

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Asheville, NC 28806

Prism Work Order: 3090056
Time Submitted: 9/5/2013 9:51:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3I0108 - 5030B										
Matrix Spike Dup (P3I0108-MSD1)		**Source: 3090056-01**		Prepared & Analyzed: 09/06/13						
1,1-Dichloroethylene	224	5.0	ug/L	200.0	BRL	112	65-162	6	20	
Benzene	176	5.0	ug/L	200.0	BRL	88	73-131	6	17	
Chlorobenzene	189	5.0	ug/L	200.0	BRL	95	76-119	5	20	
Toluene	178	5.0	ug/L	200.0	BRL	89	72-135	6	18	
Trichloroethylene	184	5.0	ug/L	200.0	BRL	92	72-133	5	17	
Surrogate: 4-Bromofluorobenzene	*526*		*ug/L*	*500.0*		*105*	*80-124*			
Surrogate: Dibromofluoromethane	*527*		*ug/L*	*500.0*		*105*	*75-129*			
Surrogate: Toluene-d8	*483*		*ug/L*	*500.0*		*97*	*77-123*			

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Attn: Susan Kelly
1308 Patton Avenue
Asheville, NC 28806

Project: WCU MSWLF

Prism Work Order: 3090056
Time Submitted: 9/5/2013 9:51:00AM

3030C Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3I0100 - SM3030 C										
Blank (P3I0100-BLK1)				Prepared: 09/06/13 Analyzed: 09/13/13						
Antimony	BRL	5.0	ug/L							
Arsenic	BRL	5.0	ug/L							
Barium	BRL	25	ug/L							
Beryllium	BRL	1.0	ug/L							
Cadmium	BRL	1.0	ug/L							
Chromium	BRL	5.0	ug/L							
Cobalt	0.135	5.0	ug/L							J
Copper	0.341	5.0	ug/L							J
Lead	BRL	5.0	ug/L							
Nickel	BRL	10	ug/L							
Selenium	3.06	5.0	ug/L							BL, J
Silver	BRL	5.0	ug/L							
Thallium	0.785	5.0	ug/L							J
Vanadium	BRL	25	ug/L							
Zinc	3.61	10	ug/L							J
LCS (P3I0100-BS1)				Prepared: 09/06/13 Analyzed: 09/13/13						
Antimony	241	5.0	ug/L	250.0		96	80-120			
Arsenic	237	5.0	ug/L	250.0		95	80-120			
Barium	242	25	ug/L	250.0		97	80-120			
Beryllium	211	1.0	ug/L	250.0		85	80-120			
Cadmium	243	1.0	ug/L	250.0		97	80-120			
Chromium	246	5.0	ug/L	250.0		98	80-120			
Cobalt	248	5.0	ug/L	250.0		99	80-120			
Copper	225	5.0	ug/L	250.0		90	80-120			
Lead	240	5.0	ug/L	250.0		96	80-120			
Nickel	252	10	ug/L	250.0		101	80-120			
Selenium	233	5.0	ug/L	250.0		93	80-120			B
Silver	237	5.0	ug/L	250.0		95	80-120			
Thallium	244	5.0	ug/L	250.0		97	80-120			
Vanadium	250	25	ug/L	250.0		100	80-120			
Zinc	240	10	ug/L	250.0		96	80-120			

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Asheville, NC 28806

Prism Work Order: 3090056
Time Submitted: 9/5/2013 9:51:00AM

3030C Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3I0100 - SM3030 C										
Matrix Spike (P3I0100-MS1)	**Source: 3090056-02**			Prepared: 09/06/13	Analyzed: 09/13/13					
Antimony	242	5.1	ug/L	250.0	BRL	97	75-125			
Arsenic	240	5.1	ug/L	250.0	BRL	96	75-125			
Barium	349	26	ug/L	250.0	105	98	75-125			
Beryllium	198	1.0	ug/L	250.0	BRL	79	75-125			
Cadmium	235	1.0	ug/L	250.0	0.380	94	75-125			
Chromium	244	5.1	ug/L	250.0	BRL	98	75-125			
Cobalt	249	5.1	ug/L	250.0	0.664	99	75-125			
Copper	212	5.1	ug/L	250.0	2.87	84	75-125			
Lead	242	5.1	ug/L	250.0	BRL	97	75-125			
Nickel	256	10	ug/L	250.0	1.80	102	75-125			
Selenium	243	5.1	ug/L	250.0	BRL	97	75-125			B
Silver	239	5.1	ug/L	250.0	BRL	96	75-125			
Thallium	244	5.1	ug/L	250.0	BRL	98	75-125			
Vanadium	263	26	ug/L	250.0	BRL	105	75-125			
Zinc	236	10	ug/L	250.0	20.8	86	75-125			
Matrix Spike Dup (P3I0100-MSD1)	**Source: 3090056-02**			Prepared: 09/06/13	Analyzed: 09/13/13					
Antimony	238	5.0	ug/L	250.0	BRL	95	75-125	1	20	
Arsenic	236	5.0	ug/L	250.0	BRL	94	75-125	2	20	
Barium	342	25	ug/L	250.0	105	95	75-125	2	20	
Beryllium	193	1.0	ug/L	250.0	BRL	77	75-125	3	20	
Cadmium	243	1.0	ug/L	250.0	0.380	97	75-125	3	20	
Chromium	240	5.0	ug/L	250.0	BRL	96	75-125	2	20	
Cobalt	242	5.0	ug/L	250.0	0.664	97	75-125	3	20	
Copper	217	5.0	ug/L	250.0	2.87	86	75-125	2	20	
Lead	236	5.0	ug/L	250.0	BRL	94	75-125	3	20	
Nickel	246	10	ug/L	250.0	1.80	98	75-125	4	20	
Selenium	234	5.0	ug/L	250.0	BRL	94	75-125	4	20	B
Silver	236	5.0	ug/L	250.0	BRL	94	75-125	1	20	
Thallium	239	5.0	ug/L	250.0	BRL	96	75-125	2	20	
Vanadium	246	25	ug/L	250.0	BRL	98	75-125	6	20	
Zinc	236	10	ug/L	250.0	20.8	86	75-125	0.1	20	

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AMEC Env. & Infrastructure Inc (Asheville)
Attn: Susan Kelly
1308 Patton Avenue
Asheville, NC 28806

Project: WCU MSWLF

Prism Work Order: 3090056
Time Submitted: 9/5/2013 9:51:00AM

3030C Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3I0100 - SM3030 C										
Post Spike (P3I0100-PS1)		**Source: 3090056-02**		Prepared: 09/06/13 Analyzed: 09/09/13						
Antimony	98.0		ug/L	100.1	0.0450	98	80-120			
Arsenic	83.6		ug/L	100.1	-4.04	88	80-120			
Barium	211		ug/L	100.1	105	106	80-120			
Beryllium	99.0		ug/L	100.1	0.122	99	80-120			
Cadmium	99.6		ug/L	100.1	0.380	99	80-120			
Chromium	95.1		ug/L	100.1	-0.524	96	80-120			
Cobalt	92.3		ug/L	100.1	0.665	92	80-120			
Copper	96.2		ug/L	100.1	2.87	93	80-120			
Lead	95.2		ug/L	100.1	0.375	95	80-120			
Nickel	92.0		ug/L	100.1	1.80	90	80-120			
Selenium	98.1		ug/L	100.1	0.416	98	80-120			B
Silver	75.1		ug/L	100.1	0.0615	75	80-120			
Thallium	95.7		ug/L	100.1	0.396	95	80-120			
Zinc	113		ug/L	100.1	20.9	92	80-120			

Sample Extraction Data

Prep Method: SM3030 C

Lab Number	Batch	Initial	Final	Date/Time
3090056-01	P3I0100	50 mL	49.87 mL	09/06/13 13:00
3090056-01	P3I0100	50 mL	49.87 mL	09/06/13 13:00
3090056-02	P3I0100	50 mL	49.93 mL	09/06/13 13:00
3090056-02	P3I0100	50 mL	49.93 mL	09/06/13 13:00
3090056-03	P3I0100	50 mL	50.42 mL	09/06/13 13:00
3090056-03	P3I0100	50 mL	50.42 mL	09/06/13 13:00
3090056-04	P3I0100	50 mL	49.86 mL	09/06/13 13:00
3090056-04	P3I0100	50 mL	49.86 mL	09/06/13 13:00
3090056-05	P3I0100	50 mL	50.16 mL	09/06/13 13:00
3090056-05	P3I0100	50 mL	50.16 mL	09/06/13 13:00
3090056-06	P3I0100	50 mL	51.22 mL	09/06/13 13:00
3090056-06	P3I0100	50 mL	51.22 mL	09/06/13 13:00

Prep Method: 5030B

Lab Number	Batch	Initial	Final	Date/Time
3090056-01	P3I0108	10 mL	10 mL	09/06/13 10:29
3090056-02	P3I0108	10 mL	10 mL	09/06/13 10:29
3090056-03	P3I0108	10 mL	10 mL	09/06/13 10:29
3090056-04	P3I0108	10 mL	10 mL	09/06/13 10:29
3090056-05	P3I0108	10 mL	10 mL	09/06/13 10:29
3090056-06	P3I0108	10 mL	10 mL	09/06/13 10:29
3090056-07	P3I0108	10 mL	10 mL	09/06/13 10:29

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PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

449 Springbrook Road • Charlotte, NC 28217
Phone 704/529-6364 • Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PAGE 1 OF ____ QUOTE # TO ENSURE PROPER BILLING: ____

Client Company Name: AMEC
Report To/Contact Name: Susan Kelly
Reporting Address: 1308 Patton Ave Asheville NC 28806
Phone: 8282528130 Fax (Yes) (No): ____
Email Address: Susan.kelly@amec.com
EDD Type: PDF ____ Excel X Other ____
Site Location Name: WCU MSWLF
Site Location Physical Address: Cullowhee, NC

Project Name: WCU MSWLF
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (NO)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: AMEC Asheville
Address: 1308 Patton Ave Asheville NC 28806
Purchase Order No./Billing Reference C01250 2352
Requested Due Date ❑ 1 Day ❑ 2 Days ❑ 3 Days ❑ 4 Days ❑ 5 Days
"Working Days" ❑ 6-9 Days ☒ Standard 10 days ❑ Rush Work Must Be Pre-Approved
Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE?	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?	✓		
VOLATILES rec'd W/OUT HEADSPACE?	✓		
PROPER CONTAINERS used?	✓		

TEMP: Therm ID: IRT-9 Observed: 4.6 °C / Corr: 4.8 °C

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC ____ DoD ____ FL ____ NC X SC ____ OTHER ____ N/A ____
Water Chlorinated: YES X NO ____
Sample Iced Upon Collection: YES X NO ____

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	ANALYSIS REQUESTED: APP I VOCs	APP I + metals						REMARKS	PRISM LAB ID NO.
MW-1	9/4/13	1630	water	VOA/TLP	5	40ml/250ml	HNO3/HCl	✓	✓							ϕ1
MW-2	9/4/13	1500	water	VOA/TLP	5	40ml/250ml	HNO3/HCl	✓	✓							ϕ2
MW-3	9/4/13	1400	water	VOA/TLP	5	40ml/250ml	HNO3/HCl	✓	✓							ϕ3
MW-4	9/4/13	1300	water	VOA/TLP	5	40ml/250ml	HNO3/HCl	✓	✓							ϕ4
SW-2	9/4/13	1230	water	VOA/TLP	5	40ml/250ml	HNO3/HCl	✓	✓							ϕ5
FD-1	✓	✓	water	VOA/TLP	5	40ml/250ml	HNO3/HCl	✓	✓							ϕ6
TB-1	✓	✓	water	VOA	2	40ml	HCl	✓								ϕ7

PRESS DOWN FIRMLY - 3 COPIES

Sampler's Signature [signature] Sampled By (Print Name) Rodney M. Clark Affiliation AMEC

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

		Date	Military/Hours
Relinquished By: (Signature) [signature]	Received By: (Signature) FEDEX	9/4/13	900
Relinquished By: (Signature)	Received By: (Signature)		
Relinquished By: (Signature) FED EX	Received For Prism Laboratories By: [signature]	9/5/13	0951

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

COC Group No. 3ϕ9ϕϕ56

❑ Fed Ex ❑ UPS ❑ Hand-delivered ❑ Prism Field Service ❑ Other ____

Additional Comments: * 3030C prep method

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

SEE REVERSE FOR TERMS & CONDITIONS

CODES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	☒ NC ❑ SC	❑ NC ❑ SC
	❑ ____	❑ ____	❑ ____	❑ ____	❑ ____	❑ ____	❑ ____	❑ ____

CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

ORIGINAL