Elk Mountain
07007-03-11
Annual GW
Sampling

Attachment C

2014 Groundwater Sampling Results

AUG 2014
Brownfields

AUG 2014
Brownfields

MONITORING WELL SAMPLING REPORT

REYNOLDS MOUNTAIN BROWNFIELD SITE
70 OLD BEAVERDAM CREEK ROAD
WOODFIN, BUNCOMBE COUNTY, NORTH CAROLINA

ECS PROJECT NO. 31-2617

PREPARED BY:
ECS CAROLINAS, LLP
ASHEVILLE, NORTH CAROLINA

PREPARED FOR:
REYNOLDS PARK, LLC
RALEIGH, NORTH CAROLINA

JULY 24, 2014

ECS CAROLINAS, LLP

"Setting the Standard for Service"

Geotechnical • Construction Materials • Environmental • Facilities

NC Registered Engineering Firm F-1078

July 24, 2014

Mr. David Stallings
Reynold Park, LLC
3818 Bland Road
Raleigh, North Carolina 27609

Reference: Monitoring Well Sampling Report
Reynolds Mountain Brownfield Site
70 Old Beaverdam Creek Road
Woodfin, Buncombe County, North Carolina
ECS Project No. 31-2617

Dear Mr. Stallings:

As authorized by your acceptance of ECS proposal 31-3517-P dated June 19, 2014, ECS Carolinas, LLP (ECS) has completed the Monitoring Well Sampling Report for the above referenced site. Included in this report is a description of the field activities, the results obtained, and our conclusions and recommendations.

ECS appreciates the opportunity to provide our environmental consulting services to you on this project. If you have any questions concerning this report or this project, please contact us at (828) 665-2307.

Sincerely,

ECS CAROLINAS, LLP

James C. Bevers, E.I.
Environmental Project Manager

John S. Lair, P.G.
Principal Geologist

cc: Ms. Tracy Wahl – NCDENR, Waste Management, Brownfields Program, Asheville Regional

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1.0 BACKGROUND INFORMATION

The site consists of approximately 156 acres of land located west of US Highway 19 and approximately one mile north-northwest of downtown Woodfin, Buncombe County, North Carolina. Portions of the site were first developed into a municipal landfill in the early 1970s. The landfill was operated by the City of Asheville under lease from the property owner at the time. The landfill was closed in the early 1980s. In 1985, the site was sold and the former landfill portion was redeveloped into a nine-hole municipal golf course. The municipal golf course was closed in 2002.

On March 30, 2007, the site was recorded at the Buncombe County Register of Deeds Office as a Brownfields Property. The Notice of Brownfields Property associated with the site lists several land use restrictions as well as work to be performed. The work to be performed includes sampling four on-site monitoring wells. The groundwater obtained from the monitoring wells are to be tested for geochemical parameters including pH, specific conductance, turbidity, and temperature and analyzed for volatile organic compounds (VOCs), priority pollutant metals (PPMs), nitrate-nitrite, ammonia, chloride, chemical oxygen demand (COD), and total organic carbon (TOC). ECS was requested by Mr. Vic Knight with Knight Strategies to conduct the groundwater sampling at the site.

2.0 SITE GEOLOGY AND HYDROGEOLOGY

As determined from the USGS topographical map Weaverville, North Carolina quadrangle dated 1997, elevations at the site range from approximately 2,150 feet above mean sea level (msl) on the northern portion of the site to approximately 2,000 feet above msl on the southern portion of the site (Figure 1). Beaverdam Creek is present on the southern portion of the site, which flows westward to the French Broad River.

According to the Geologic Map of North Carolina (1985), the subject property is situated in the Blue Ridge Belt of the Blue Ridge Physiographic Province. The Blue Ridge Province is a mountainous area of steep ridges, inter-mountain basins and valleys that intersect at all angles, giving the area its rugged character. The Blue Ridge contains the highest mountains in eastern North America. About 125 peaks exceed 5,000 feet in elevation. The steep slope that separates the mountains and Piedmont is the Blue Ridge escarpment. Headward erosion of the Blue Ridge Mountains by Atlantic-flowing (eastward) streams produces this sharp topographic break. In general, shallow unconfined groundwater movement within the overlying soils is controlled largely by topographic gradients. However, as the groundwater percolates downward to the bedrock, it becomes controlled by the orientation of the rock fracture systems. Thus, the direction of groundwater movement may not be consistent with the reflecting topography. Recharge occurs primarily by infiltration along higher elevations and typically discharges into streams or other surface water bodies. The elevation of the shallow water table is transient and can vary with seasonal fluctuations in precipitation. Movement of groundwater under water table conditions is generally from higher to lower elevations. As such, shallow groundwater would be expected to flow to the south beneath the site.

3.0 FIELD ACTIVITIES

3.1 Groundwater Sampling

On July 10, 2014, ECS personnel collected geochemical data and groundwater samples from monitoring wells MW-1, MW-2, MW-3, and MW-4. The approximate locations of the monitoring wells are depicted on Figure 2. Prior to the sampling, the static groundwater depths were measured at each of the monitoring wells. The depth ranged from 1.81 feet below the ground surface (bgs) in MW-4 to 14.00 feet bgs in MW-3. The total depths of the monitoring wells ranged in depths from 6.40 feet bgs in MW-1 to 18.94 feet bgs in MW-3. The static groundwater elevations and monitoring well depths are provided in Table 1.

Prior to sampling, the monitoring wells were purged by evacuating at least three well volumes or until dryness twice using low flow peristaltic pump and dedicated plastic tubing lowered into the groundwater. After the purging was completed, groundwater samples were collected from the wells using the low flow peristaltic pump and dedicated plastic tubing. The groundwater was pumped directly into the laboratory prepared containers. After being filled, the sample containers were appropriately labeled, placed into a cooler containing ice to maintain the samples at approximately 4°C and transported to Pace Analytical Services, Inc. (Pace) to be analyzed for VOCs using EPA Method 8260, PPMs using EPA Methods 200.7 and 245.1, nitrate-nitrite using EPA Method 353.2, ammonia using EPA Method 350.1, chloride using Standard Method (SM) 4500-Cl-E, COD using SM 5220D, and TOC using SM 5310B. Geochemical data including pH, specific conductance, turbidity, and temperature was collected before and after purging each monitoring well using a Horiba U-52 water quality meter. The geochemical data is provided in Table 1. A chain of custody record was maintained during the sample collection and transportation process and is included in Appendix A.

4.0 LABORATORY ANALYTICAL RESULTS

4.1 Groundwater Sample Analysis

Laboratory analysis detected chlorobenzene in MW-3 and MW-4, 1,4-dichlorobenzene in MW-3, cis-1,2-dichloroethene and trichloroethene in MW-2, zinc in MW-3, nitrogen in MW-2, ammonia in MW-2, chloride and TOC in all monitoring wells, and COD in MW-3 and MW-4. Vinyl chloride was detected in MW-2 at a concentration which exceeds its North Carolina 2L Groundwater Quality Standard (2L Standard). Ammonia was detected in MW-3 and MW-4 at concentrations which exceed its 2L Standard. 2L Standards are not available for COD or TOC. A summary of the groundwater sample results can be found on Table 2. The laboratory data sheets are included in Appendix A.

5.0 CONCLUSIONS

Based on the results of the monitoring well sampling, ECS concludes the following:

- Laboratory analysis detected vinyl chloride in MW-2 at a concentration which exceeds its 2L Standard.

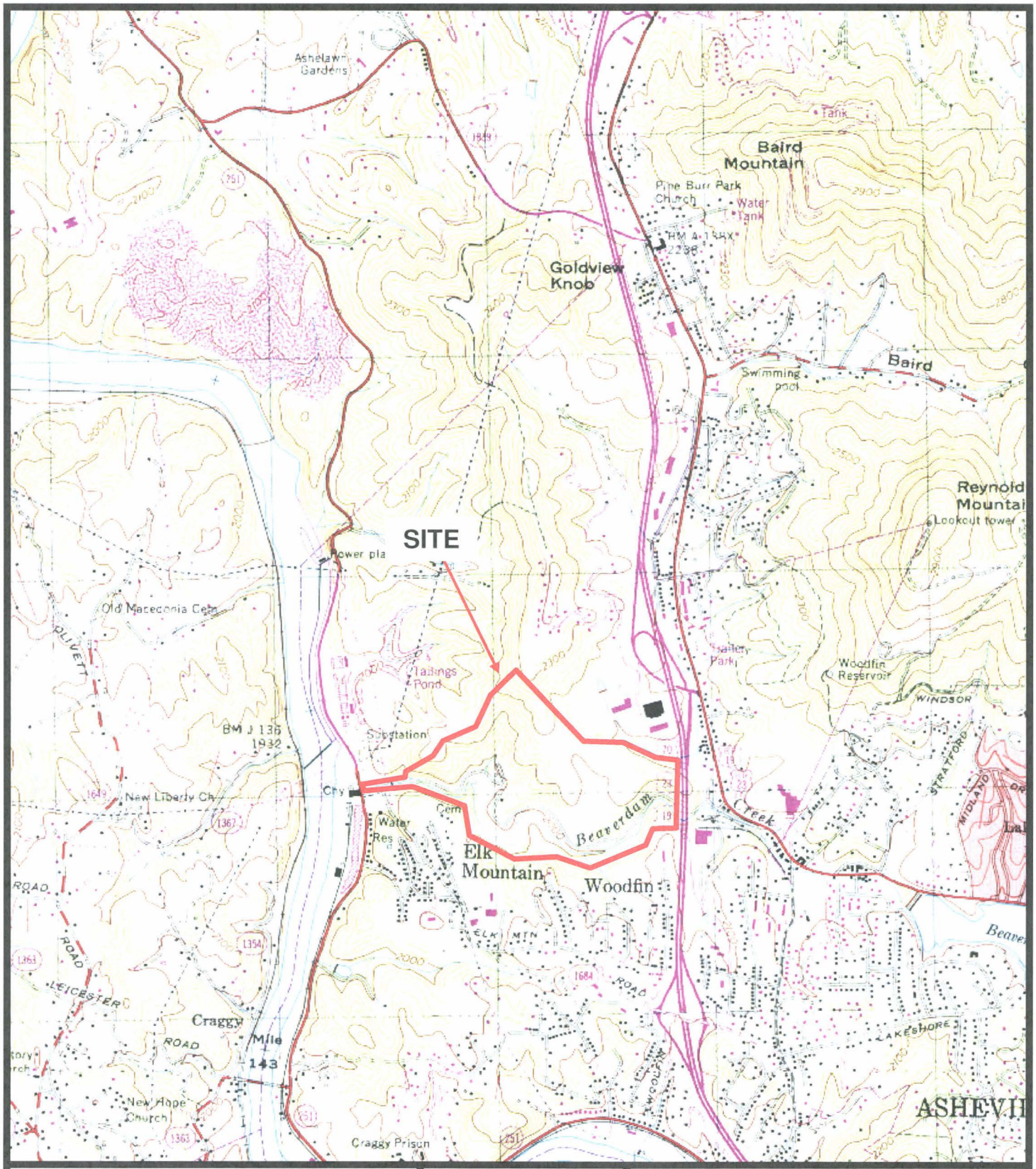
- Ammonia was detected in MW-3 and MW-4 at concentrations which exceed its 2L Standard.

6.0 RECOMMENDATIONS

ECS recommends that a copy of this monitoring well sampling report be provided to the property owner to be submitted to the NCDENR for their review.

The activities and evaluative approaches used in this assessment are consistent with those normally employed in groundwater assessment projects of this type. Our evaluation of site conditions has been based on our understanding of the site project information and the data obtained during our field activities.

FIGURES



SOURCE:
UNITED STATES GEOLOGIC SURVEY
7.5 – MINUTE SERIES TOPO MAP:
WEAVERVILLE,
NORTH CAROLINA QUADRANGLE
DATED 1997
CONTOUR INTERVAL = 20 FEET
SCALE: 1" = 2,000'

FIGURE 1
SITE LOCATION MAP
REYNOLDS MOUNTAIN BROWNFIELD SITE
70 OLD BEAVERDAM CREEK ROAD
WOODFIN, BUNCOMBE COUNTY,
NORTH CAROLINA
ECS PROJECT NO. 31-2617

SOURCE:

GOOGLE 2013 AERIAL

= 1,000 FEET

FIGURE 1A
AERIAL SITE MAP
REYNOLDS MOUNTAIN BROWNFIELD SITE
70 OLD BEAVERDAM CREEK ROAD
WOODFIN, BUNCOMBE COUNTY,
NORTH CAROLINA
ECS PROJECT NO. 31-2617

SOURCE:

GOOGLE 2013 AERIAL

= 100 FEET

FIGURE 2
MONITORING WELL LOCATION MAP
REYNOLDS MOUNTAIN BROWNFIELD SITE
70 OLD BEAVERDAM CREEK ROAD
WOODFIN, BUNCOMBE COUNTY,
NORTH CAROLINA
ECS PROJECT NO. 31-2617

TABLES

TABLE 1: MONITORING WELL INFORMATION

Monitoring Well	Static Groundwater Depth (feet bgs)	Monitoring Well Depth (feet bgs)	pH		Specific Conductance (mS/cm)		Turbidity (NTU)		Temperature (ºC)	
			Pre-Purge	Post-Purge	Pre-Purge	Post-Purge	Pre-Purge	Post-Purge	Pre-Purge	Post-Purge
MW-1	5.51	6.40	5.68	5.55	0.227	0.113	>1000	16.2	16.33	16.34
MW-2	3.15	15.83	6.81	6.72	0.719	0.697	104	13.5	18.49	18.03
MW-3	14.00	18.94	6.60	6.59	1.180	1.160	642	35.4	19.97	17.14
MW-4	1.81	16.51	7.11	6.74	0.599	0.588	382	2.3	19.67	20.46

Notes:
BGS = below the ground surface
mS/cm = millisiemens per centimeter
NTU = Nephelometric Turbidity Units
Geochemical measurements obtained using a Horiba U-52 water quality meter

TABLE 2: SUMMARY OF SOIL ANALYTICAL RESULTS

Parameter	GROUNDWATER SAMPLING				COMPARISON CRITERIA
Sample ID	MW-1	MW-2	MW-3	MW-4	2L Standard
Collection Date	7/10/14	7/10/14	7/10/14	7/10/14	
VOCs by EPA Method 8260					
chlorobenzene	<1.0	<1.0	6.2	2.0	50
1,4-dichlorobenzene	<1.0	<1.0	2.3	<1.0	6
cis-1,2-dichloroethene	<1.0	21.4	<1.0	<1.0	70
trichloroethene	<1.0	1.6	<1.0	<1.0	3
vinyl chloride	<1.0	**2.7**	<1.0	<1.0	0.03
All Other Targeted VOCs	ND	ND	ND	ND	--
PPMs by EPA Methods 200.7 and 245.1					
zinc	<10.0	<10.0	35.4	<10.0	1,000
All Other Targeted PPMs	ND	ND	ND	ND	--
Nitrate-Nitrite by EPA Method 353.2					
nitrogen, NO2 plus NO3	<0.020	0.085	<0.020	<0.020	11
Ammonia by EPA Method 350.1					
nitrogen, ammonia	<0.01	0.46	**44.8**	**7.0**	1.5
Chloride by SM 4500-Cl-E					
chloride	7.4	63.9	43.2	15.7	250
COD by SM 5220D					
COD	<25.0	<25.0	53.0	36.0	--
TOC by SM 5310B					
TOC	3.7	14.0	33.3	18.8	--

Notes:
Results for VOCs and PPMs presented in micrograms per liter (ug/L), analogous to parts per billion (ppb)
Results for Nitrate-Nitrite, Ammonia, Chloride, COD, and TOC presented in milligrams per liter (mg/L), analogous to parts per million (ppm)
ND = Non-Detect
VOCs = volatile organic compounds
PPMs = Priority Pollutant Metals
COD = chemical oxygen demand
TOC = total organic carbon
Bold denotes concentration exceeds 2L Standards
2L Standard - April 2013 Version

APPENDIX A

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

July 21, 2014

Jim Bevers
ECS Carolinas
1900 Hendersonville Road
Suite 10
Asheville, NC 28803

RE: Project: Reynolds Mountain 31-2617
Pace Project No.: 92208786

Dear Jim Bevers:
Enclosed are the analytical results for sample(s) received by the laboratory on July 10, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

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

Sincerely,

Angela M. Baioni

Angela Baioni
angela.baioni@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: Reynolds Mountain 31-2617
Pace Project No.: 92208786

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

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

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SAMPLE ANALYTE COUNT

Project: Reynolds Mountain 31-2617
Pace Project No.: 92208786

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92208786001	**MW-1**	EPA 200.7	JMW	12	PASI-A
		EPA 245.1	HVK	1	PASI-A
		EPA 8260	MCK	63	PASI-C
		EPA 350.1	AES2	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 4500-Cl-E	DMN	1	PASI-A
		SM 5220D	SMW	1	PASI-A
		SM 5310B	SAE	1	PASI-A
92208786002	**MW-2**	EPA 200.7	JMW	12	PASI-A
		EPA 245.1	HVK	1	PASI-A
		EPA 8260	MCK	63	PASI-C
		EPA 350.1	AES2	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 4500-Cl-E	DMN	1	PASI-A
		SM 5220D	SMW	1	PASI-A
		SM 5310B	SAE	1	PASI-A
92208786003	**MW-3**	EPA 200.7	JMW	12	PASI-A
		EPA 245.1	HVK	1	PASI-A
		EPA 8260	MCK	63	PASI-C
		EPA 350.1	AES2	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 4500-Cl-E	DMN	1	PASI-A
		SM 5220D	SMW	1	PASI-A
		SM 5310B	SAE	1	PASI-A
92208786004	**MW-4**	EPA 200.7	JMW	12	PASI-A
		EPA 245.1	HVK	1	PASI-A
		EPA 8260	MCK	63	PASI-C
		EPA 350.1	AES2	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 4500-Cl-E	DMN	1	PASI-A
		SM 5220D	SMW	1	PASI-A
		SM 5310B	SAE	1	PASI-A

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SUMMARY OF DETECTION

Project: Reynolds Mountain 31-2617
Pace Project No.: 92208786

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92208786001	**MW-1**					
SM 4500-Cl-E	Chloride	7.4	mg/L	1.0	07/15/14 20:38	
SM 5310B	Total Organic Carbon	3.7	mg/L	1.0	07/15/14 11:57	
92208786002	**MW-2**					
EPA 8260	cis-1,2-Dichloroethene	21.4	ug/L	1.0	07/15/14 00:11	
EPA 8260	Trichloroethene	1.6	ug/L	1.0	07/15/14 00:11	
EPA 8260	Vinyl chloride	2.7	ug/L	1.0	07/15/14 00:11	
EPA 350.1	Nitrogen, Ammonia	0.46	mg/L	0.10	07/11/14 16:43	
EPA 353.2	Nitrogen, NO2 plus NO3	0.085	mg/L	0.020	07/14/14 18:19	
SM 4500-Cl-E	Chloride	63.9	mg/L	25.0	07/15/14 20:50	
SM 5310B	Total Organic Carbon	14.0	mg/L	1.0	07/15/14 12:09	
92208786003	**MW-3**					
EPA 200.7	Zinc	35.4	ug/L	10.0	07/15/14 00:04	
EPA 8260	Chlorobenzene	6.2	ug/L	1.0	07/15/14 00:28	
EPA 8260	1,4-Dichlorobenzene	2.3	ug/L	1.0	07/15/14 00:28	
EPA 350.1	Nitrogen, Ammonia	44.8	mg/L	0.50	07/11/14 17:43	
SM 4500-Cl-E	Chloride	43.2	mg/L	3.0	07/21/14 02:52	M1
SM 5220D	Chemical Oxygen Demand	53.0	mg/L	25.0	07/16/14 17:00	
SM 5310B	Total Organic Carbon	33.3	mg/L	1.0	07/15/14 13:01	
92208786004	**MW-4**					
EPA 8260	Chlorobenzene	2.0	ug/L	1.0	07/15/14 00:45	
EPA 350.1	Nitrogen, Ammonia	7.0	mg/L	0.10	07/11/14 16:46	
SM 4500-Cl-E	Chloride	15.7	mg/L	1.0	07/21/14 02:12	
SM 5220D	Chemical Oxygen Demand	36.0	mg/L	25.0	07/16/14 17:00	
SM 5310B	Total Organic Carbon	18.8	mg/L	1.0	07/15/14 13:11	

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

ANALYTICAL RESULTS

Project: Reynolds Mountain 31-2617
Pace Project No.: 92208786

Sample: MW-1 **Lab ID: 92208786001** Collected: 07/10/14 09:40 Received: 07/10/14 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Antimony	ND	ug/L	5.0	1	07/11/14 12:00	07/14/14 23:43	7440-36-0	
Arsenic	ND	ug/L	10.0	1	07/11/14 12:00	07/14/14 23:43	7440-38-2	
Beryllium	ND	ug/L	1.0	1	07/11/14 12:00	07/14/14 23:43	7440-41-7	
Cadmium	ND	ug/L	1.0	1	07/11/14 12:00	07/14/14 23:43	7440-43-9	
Chromium	ND	ug/L	5.0	1	07/11/14 12:00	07/14/14 23:43	7440-47-3	
Copper	ND	ug/L	5.0	1	07/11/14 12:00	07/14/14 23:43	7440-50-8	
Lead	ND	ug/L	5.0	1	07/11/14 12:00	07/14/14 23:43	7439-92-1	
Nickel	ND	ug/L	5.0	1	07/11/14 12:00	07/14/14 23:43	7440-02-0	
Selenium	ND	ug/L	10.0	1	07/11/14 12:00	07/14/14 23:43	7782-49-2	
Silver	ND	ug/L	5.0	1	07/11/14 12:00	07/14/14 23:43	7440-22-4	
Thallium	ND	ug/L	10.0	1	07/11/14 12:00	07/14/14 23:43	7440-28-0	
Zinc	ND	ug/L	10.0	1	07/11/14 12:00	07/14/14 23:43	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	07/10/14 21:00	07/15/14 16:47	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		07/14/14 23:54	67-64-1	
Benzene	ND	ug/L	1.0	1		07/14/14 23:54	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/14/14 23:54	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/14/14 23:54	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/14/14 23:54	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/14/14 23:54	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/14/14 23:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/14/14 23:54	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/14/14 23:54	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/14/14 23:54	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/14/14 23:54	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/14/14 23:54	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/14/14 23:54	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/14/14 23:54	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/14/14 23:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/14/14 23:54	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/14/14 23:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/14/14 23:54	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/14/14 23:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/14/14 23:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/14/14 23:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/14/14 23:54	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/14/14 23:54	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/14/14 23:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/14/14 23:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/14/14 23:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/14/14 23:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/14/14 23:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/14/14 23:54	78-87-5	

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

ANALYTICAL RESULTS

Project: Reynolds Mountain 31-2617
Pace Project No.: 92208786

Sample: MW-1 **Lab ID: 92208786001** Collected: 07/10/14 09:40 Received: 07/10/14 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,3-Dichloropropane	ND	ug/L	1.0	1		07/14/14 23:54	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/14/14 23:54	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/14/14 23:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/14/14 23:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/14/14 23:54	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		07/14/14 23:54	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/14/14 23:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		07/14/14 23:54	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		07/14/14 23:54	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/14/14 23:54	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		07/14/14 23:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/14/14 23:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/14/14 23:54	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/14/14 23:54	91-20-3	
Styrene	ND	ug/L	1.0	1		07/14/14 23:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/14/14 23:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/14/14 23:54	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/14/14 23:54	127-18-4	
Toluene	ND	ug/L	1.0	1		07/14/14 23:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/14/14 23:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/14/14 23:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/14/14 23:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/14/14 23:54	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		07/14/14 23:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/14/14 23:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/14/14 23:54	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		07/14/14 23:54	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		07/14/14 23:54	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		07/14/14 23:54	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		07/14/14 23:54	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/14/14 23:54	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		07/14/14 23:54	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		07/14/14 23:54	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		07/14/14 23:54	2037-26-5	
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	ND	mg/L	0.10	1		07/11/14 16:42	7664-41-7	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.020	1		07/14/14 18:17		
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**7.4**	mg/L	1.0	1		07/15/14 20:38	16887-00-6	

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ANALYTICAL RESULTS

Project: Reynolds Mountain 31-2617
Pace Project No.: 92208786

Sample: MW-1 **Lab ID: 92208786001** Collected: 07/10/14 09:40 Received: 07/10/14 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5220D COD	Analytical Method: SM 5220D							
Chemical Oxygen Demand	ND	mg/L	25.0	1		07/16/14 17:00		M1
5310B TOC	Analytical Method: SM 5310B							
Total Organic Carbon	**3.7**	mg/L	1.0	1		07/15/14 11:57	7440-44-0	

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ANALYTICAL RESULTS

Project: Reynolds Mountain 31-2617
Pace Project No.: 92208786

Sample: MW-2 **Lab ID: 92208786002** Collected: 07/10/14 11:15 Received: 07/10/14 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Antimony	ND	ug/L	5.0	1	07/11/14 12:00	07/15/14 00:01	7440-36-0	
Arsenic	ND	ug/L	10.0	1	07/11/14 12:00	07/15/14 00:01	7440-38-2	
Beryllium	ND	ug/L	1.0	1	07/11/14 12:00	07/15/14 00:01	7440-41-7	
Cadmium	ND	ug/L	1.0	1	07/11/14 12:00	07/15/14 00:01	7440-43-9	
Chromium	ND	ug/L	5.0	1	07/11/14 12:00	07/15/14 00:01	7440-47-3	
Copper	ND	ug/L	5.0	1	07/11/14 12:00	07/15/14 18:05	7440-50-8	
Lead	ND	ug/L	5.0	1	07/11/14 12:00	07/15/14 00:01	7439-92-1	
Nickel	ND	ug/L	5.0	1	07/11/14 12:00	07/15/14 00:01	7440-02-0	
Selenium	ND	ug/L	10.0	1	07/11/14 12:00	07/15/14 00:01	7782-49-2	
Silver	ND	ug/L	5.0	1	07/11/14 12:00	07/15/14 00:01	7440-22-4	
Thallium	ND	ug/L	10.0	1	07/11/14 12:00	07/15/14 00:01	7440-28-0	
Zinc	ND	ug/L	10.0	1	07/11/14 12:00	07/15/14 00:01	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	07/10/14 21:00	07/15/14 16:50	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		07/15/14 00:11	67-64-1	
Benzene	ND	ug/L	1.0	1		07/15/14 00:11	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/15/14 00:11	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/15/14 00:11	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/15/14 00:11	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/15/14 00:11	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/15/14 00:11	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/15/14 00:11	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/15/14 00:11	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/15/14 00:11	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/15/14 00:11	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/15/14 00:11	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/15/14 00:11	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/15/14 00:11	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/15/14 00:11	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/15/14 00:11	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/15/14 00:11	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/15/14 00:11	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/15/14 00:11	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/15/14 00:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/15/14 00:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/15/14 00:11	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/15/14 00:11	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/15/14 00:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/15/14 00:11	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/15/14 00:11	75-35-4	
cis-1,2-Dichloroethene	**21.4**	ug/L	1.0	1		07/15/14 00:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/15/14 00:11	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/15/14 00:11	78-87-5	

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ANALYTICAL RESULTS

Project: Reynolds Mountain 31-2617
Pace Project No.: 92208786

Sample: MW-2 **Lab ID: 92208786002** Collected: 07/10/14 11:15 Received: 07/10/14 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,3-Dichloropropane	ND	ug/L	1.0	1		07/15/14 00:11	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/15/14 00:11	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/15/14 00:11	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/15/14 00:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/15/14 00:11	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		07/15/14 00:11	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/15/14 00:11	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		07/15/14 00:11	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		07/15/14 00:11	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/15/14 00:11	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		07/15/14 00:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/15/14 00:11	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/15/14 00:11	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/15/14 00:11	91-20-3	
Styrene	ND	ug/L	1.0	1		07/15/14 00:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/15/14 00:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/15/14 00:11	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/15/14 00:11	127-18-4	
Toluene	ND	ug/L	1.0	1		07/15/14 00:11	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/15/14 00:11	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/15/14 00:11	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/15/14 00:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/15/14 00:11	79-00-5	
Trichloroethene	**1.6**	ug/L	1.0	1		07/15/14 00:11	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/15/14 00:11	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/15/14 00:11	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		07/15/14 00:11	108-05-4	
Vinyl chloride	**2.7**	ug/L	1.0	1		07/15/14 00:11	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		07/15/14 00:11	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		07/15/14 00:11	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/15/14 00:11	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		07/15/14 00:11	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		07/15/14 00:11	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		07/15/14 00:11	2037-26-5	
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**0.46**	mg/L	0.10	1		07/11/14 16:43	7664-41-7	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.085**	mg/L	0.020	1		07/14/14 18:19		
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**63.9**	mg/L	25.0	25		07/15/14 20:50	16887-00-6	

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ANALYTICAL RESULTS

Project: Reynolds Mountain 31-2617
Pace Project No.: 92208786

Sample: MW-2 **Lab ID: 92208786002** Collected: 07/10/14 11:15 Received: 07/10/14 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5220D COD	Analytical Method: SM 5220D							
Chemical Oxygen Demand	ND	mg/L	25.0	1		07/16/14 17:00		
5310B TOC	Analytical Method: SM 5310B							
Total Organic Carbon	**14.0**	mg/L	1.0	1		07/15/14 12:09	7440-44-0	

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ANALYTICAL RESULTS

Project: Reynolds Mountain 31-2617
Pace Project No.: 92208786

Sample: MW-3 **Lab ID: 92208786003** Collected: 07/10/14 12:15 Received: 07/10/14 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Antimony	ND	ug/L	5.0	1	07/11/14 12:00	07/15/14 00:04	7440-36-0	
Arsenic	ND	ug/L	10.0	1	07/11/14 12:00	07/15/14 00:04	7440-38-2	
Beryllium	ND	ug/L	1.0	1	07/11/14 12:00	07/15/14 00:04	7440-41-7	
Cadmium	ND	ug/L	1.0	1	07/11/14 12:00	07/15/14 00:04	7440-43-9	
Chromium	ND	ug/L	5.0	1	07/11/14 12:00	07/15/14 00:04	7440-47-3	
Copper	ND	ug/L	5.0	1	07/11/14 12:00	07/15/14 18:08	7440-50-8	
Lead	ND	ug/L	5.0	1	07/11/14 12:00	07/15/14 00:04	7439-92-1	
Nickel	ND	ug/L	5.0	1	07/11/14 12:00	07/15/14 00:04	7440-02-0	
Selenium	ND	ug/L	10.0	1	07/11/14 12:00	07/15/14 00:04	7782-49-2	
Silver	ND	ug/L	5.0	1	07/11/14 12:00	07/15/14 00:04	7440-22-4	
Thallium	ND	ug/L	10.0	1	07/11/14 12:00	07/15/14 00:04	7440-28-0	
Zinc	**35.4**	ug/L	10.0	1	07/11/14 12:00	07/15/14 00:04	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	07/10/14 21:00	07/15/14 16:57	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		07/15/14 00:28	67-64-1	
Benzene	ND	ug/L	1.0	1		07/15/14 00:28	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/15/14 00:28	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/15/14 00:28	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/15/14 00:28	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/15/14 00:28	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/15/14 00:28	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/15/14 00:28	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/15/14 00:28	56-23-5	
Chlorobenzene	**6.2**	ug/L	1.0	1		07/15/14 00:28	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/15/14 00:28	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/15/14 00:28	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/15/14 00:28	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/15/14 00:28	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/15/14 00:28	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/15/14 00:28	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/15/14 00:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/15/14 00:28	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/15/14 00:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/15/14 00:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/15/14 00:28	541-73-1	
1,4-Dichlorobenzene	**2.3**	ug/L	1.0	1		07/15/14 00:28	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/15/14 00:28	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/15/14 00:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/15/14 00:28	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/15/14 00:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/15/14 00:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/15/14 00:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/15/14 00:28	78-87-5	

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ANALYTICAL RESULTS

Project: Reynolds Mountain 31-2617
Pace Project No.: 92208786

Sample: MW-3 **Lab ID: 92208786003** Collected: 07/10/14 12:15 Received: 07/10/14 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,3-Dichloropropane	ND	ug/L	1.0	1		07/15/14 00:28	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/15/14 00:28	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/15/14 00:28	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/15/14 00:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/15/14 00:28	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		07/15/14 00:28	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/15/14 00:28	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		07/15/14 00:28	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		07/15/14 00:28	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/15/14 00:28	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		07/15/14 00:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/15/14 00:28	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/15/14 00:28	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/15/14 00:28	91-20-3	
Styrene	ND	ug/L	1.0	1		07/15/14 00:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/15/14 00:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/15/14 00:28	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/15/14 00:28	127-18-4	
Toluene	ND	ug/L	1.0	1		07/15/14 00:28	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/15/14 00:28	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/15/14 00:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/15/14 00:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/15/14 00:28	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		07/15/14 00:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/15/14 00:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/15/14 00:28	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		07/15/14 00:28	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		07/15/14 00:28	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		07/15/14 00:28	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		07/15/14 00:28	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/15/14 00:28	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		07/15/14 00:28	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		07/15/14 00:28	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		07/15/14 00:28	2037-26-5	
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**44.8**	mg/L	0.50	5		07/11/14 17:43	7664-41-7	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.020	1		07/14/14 18:20		
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**43.2**	mg/L	3.0	3		07/21/14 02:52	16887-00-6	M1

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ANALYTICAL RESULTS

Project: Reynolds Mountain 31-2617
Pace Project No.: 92208786

Sample: MW-3 **Lab ID: 92208786003** Collected: 07/10/14 12:15 Received: 07/10/14 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5220D COD	Analytical Method: SM 5220D							
Chemical Oxygen Demand	**53.0**	mg/L	25.0	1		07/16/14 17:00		
5310B TOC	Analytical Method: SM 5310B							
Total Organic Carbon	**33.3**	mg/L	1.0	1		07/15/14 13:01	7440-44-0	

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ANALYTICAL RESULTS

Project: Reynolds Mountain 31-2617
Pace Project No.: 92208786

Sample: MW-4 **Lab ID: 92208786004** Collected: 07/10/14 13:45 Received: 07/10/14 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Antimony	ND	ug/L	5.0	1	07/11/14 12:00	07/15/14 00:07	7440-36-0	
Arsenic	ND	ug/L	10.0	1	07/11/14 12:00	07/15/14 00:07	7440-38-2	
Beryllium	ND	ug/L	1.0	1	07/11/14 12:00	07/15/14 00:07	7440-41-7	
Cadmium	ND	ug/L	1.0	1	07/11/14 12:00	07/15/14 00:07	7440-43-9	
Chromium	ND	ug/L	5.0	1	07/11/14 12:00	07/15/14 00:07	7440-47-3	
Copper	ND	ug/L	5.0	1	07/11/14 12:00	07/15/14 18:21	7440-50-8	
Lead	ND	ug/L	5.0	1	07/11/14 12:00	07/15/14 00:07	7439-92-1	
Nickel	ND	ug/L	5.0	1	07/11/14 12:00	07/15/14 00:07	7440-02-0	
Selenium	ND	ug/L	10.0	1	07/11/14 12:00	07/15/14 00:07	7782-49-2	
Silver	ND	ug/L	5.0	1	07/11/14 12:00	07/15/14 00:07	7440-22-4	
Thallium	ND	ug/L	10.0	1	07/11/14 12:00	07/15/14 00:07	7440-28-0	
Zinc	ND	ug/L	10.0	1	07/11/14 12:00	07/15/14 00:07	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	07/10/14 21:00	07/15/14 17:00	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		07/15/14 00:45	67-64-1	
Benzene	ND	ug/L	1.0	1		07/15/14 00:45	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/15/14 00:45	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/15/14 00:45	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/15/14 00:45	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/15/14 00:45	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/15/14 00:45	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/15/14 00:45	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/15/14 00:45	56-23-5	
Chlorobenzene	**2.0**	ug/L	1.0	1		07/15/14 00:45	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/15/14 00:45	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/15/14 00:45	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/15/14 00:45	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/15/14 00:45	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/15/14 00:45	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/15/14 00:45	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/15/14 00:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/15/14 00:45	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/15/14 00:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/15/14 00:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/15/14 00:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/15/14 00:45	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/15/14 00:45	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/15/14 00:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/15/14 00:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/15/14 00:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/15/14 00:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/15/14 00:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/15/14 00:45	78-87-5	

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ANALYTICAL RESULTS

Project: Reynolds Mountain 31-2617
Pace Project No.: 92208786

Sample: MW-4 **Lab ID: 92208786004** Collected: 07/10/14 13:45 Received: 07/10/14 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,3-Dichloropropane	ND	ug/L	1.0	1		07/15/14 00:45	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/15/14 00:45	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/15/14 00:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/15/14 00:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/15/14 00:45	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		07/15/14 00:45	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/15/14 00:45	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		07/15/14 00:45	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		07/15/14 00:45	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/15/14 00:45	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		07/15/14 00:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/15/14 00:45	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/15/14 00:45	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/15/14 00:45	91-20-3	
Styrene	ND	ug/L	1.0	1		07/15/14 00:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/15/14 00:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/15/14 00:45	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/15/14 00:45	127-18-4	
Toluene	ND	ug/L	1.0	1		07/15/14 00:45	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/15/14 00:45	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/15/14 00:45	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/15/14 00:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/15/14 00:45	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		07/15/14 00:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/15/14 00:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/15/14 00:45	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		07/15/14 00:45	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		07/15/14 00:45	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		07/15/14 00:45	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		07/15/14 00:45	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/15/14 00:45	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	1		07/15/14 00:45	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		07/15/14 00:45	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		07/15/14 00:45	2037-26-5	
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**7.0**	mg/L	0.10	1		07/11/14 16:46	7664-41-7	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.020	1		07/14/14 18:23		
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**15.7**	mg/L	1.0	1		07/21/14 02:12	16887-00-6	

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ANALYTICAL RESULTS

Project: Reynolds Mountain 31-2617
Pace Project No.: 92208786

Sample: MW-4 **Lab ID: 92208786004** Collected: 07/10/14 13:45 Received: 07/10/14 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5220D COD	Analytical Method: SM 5220D							
Chemical Oxygen Demand	**36.0**	mg/L	25.0	1		07/16/14 17:00		
5310B TOC	Analytical Method: SM 5310B							
Total Organic Carbon	**18.8**	mg/L	1.0	1		07/15/14 13:11	7440-44-0	

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QUALITY CONTROL DATA

Project: Reynolds Mountain 31-2617
Pace Project No.: 92208786

QC Batch: MERP/6838 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
Associated Lab Samples: 92208786001, 92208786002, 92208786003, 92208786004

METHOD BLANK: 1239817 Matrix: Water
Associated Lab Samples: 92208786001, 92208786002, 92208786003, 92208786004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	07/15/14 16:26	

LABORATORY CONTROL SAMPLE: 1239818

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.6	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1239819 1239820

Parameter	Units	92208234001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	ug/L	1.4	2.5	2.5	2.6	2.6	48	49	70-130	0	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1239821 1239822

Parameter	Units	92208276001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.5	2.5	98	95	70-130	3	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Reynolds Mountain 31-2617
Pace Project No.: 92208786

QC Batch: MPRP/16430 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 MET
Associated Lab Samples: 92208786001, 92208786002, 92208786003, 92208786004

METHOD BLANK: 1240105 Matrix: Water
Associated Lab Samples: 92208786001, 92208786002, 92208786003, 92208786004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	07/14/14 23:37	
Arsenic	ug/L	ND	10.0	07/14/14 23:37	
Beryllium	ug/L	ND	1.0	07/14/14 23:37	
Cadmium	ug/L	ND	1.0	07/14/14 23:37	
Chromium	ug/L	ND	5.0	07/14/14 23:37	
Copper	ug/L	ND	5.0	07/14/14 23:37	
Lead	ug/L	ND	5.0	07/14/14 23:37	
Nickel	ug/L	ND	5.0	07/14/14 23:37	
Selenium	ug/L	ND	10.0	07/14/14 23:37	
Silver	ug/L	ND	5.0	07/14/14 23:37	
Thallium	ug/L	ND	10.0	07/14/14 23:37	
Zinc	ug/L	ND	10.0	07/14/14 23:37	

LABORATORY CONTROL SAMPLE: 1240106

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	516	103	85-115	
Arsenic	ug/L	500	495	99	85-115	
Beryllium	ug/L	500	498	100	85-115	
Cadmium	ug/L	500	499	100	85-115	
Chromium	ug/L	500	498	100	85-115	
Copper	ug/L	500	514	103	85-115	
Lead	ug/L	500	506	101	85-115	
Nickel	ug/L	500	493	99	85-115	
Selenium	ug/L	500	510	102	85-115	
Silver	ug/L	250	251	100	85-115	
Thallium	ug/L	500	495	99	85-115	
Zinc	ug/L	500	488	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1240107 1240108

Parameter	Units	92208786001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Antimony	ug/L	ND	500	500	512	510	102	102	70-130	1	
Arsenic	ug/L	ND	500	500	496	490	99	98	70-130	1	
Beryllium	ug/L	ND	500	500	500	492	100	98	70-130	2	
Cadmium	ug/L	ND	500	500	496	490	99	98	70-130	1	
Chromium	ug/L	ND	500	500	496	491	99	98	70-130	1	

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QUALITY CONTROL DATA

Project: Reynolds Mountain 31-2617
Pace Project No.: 92208786

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1240107 1240108

Parameter	Units	92208786001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Copper	ug/L	ND	500	500	515	499	103	100	70-130	3	
Lead	ug/L	ND	500	500	497	494	99	99	70-130	1	
Nickel	ug/L	ND	500	500	490	484	98	97	70-130	1	
Selenium	ug/L	ND	500	500	506	502	101	100	70-130	1	
Silver	ug/L	ND	250	250	248	246	99	99	70-130	1	
Thallium	ug/L	ND	500	500	487	483	97	96	70-130	1	
Zinc	ug/L	ND	500	500	488	484	97	96	70-130	1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1240109 1240110

Parameter	Units	92208517009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Antimony	ug/L	ND	500	500	525	524	104	104	70-130	0	
Arsenic	ug/L	0.014 mg/L	500	500	514	516	100	100	70-130	0	
Beryllium	ug/L	ND	500	500	501	502	100	100	70-130	0	
Cadmium	ug/L	ND	500	500	502	502	100	100	70-130	0	
Chromium	ug/L	0.13 mg/L	500	500	636	636	101	101	70-130	0	
Copper	ug/L	0.059 mg/L	500	500	569	570	102	102	70-130	0	
Lead	ug/L	ND	500	500	493	497	99	99	70-130	1	
Nickel	ug/L	0.0081 mg/L	500	500	495	495	97	97	70-130	0	
Selenium	ug/L	ND	500	500	513	513	102	102	70-130	0	
Silver	ug/L	ND	250	250	251	249	100	100	70-130	1	
Thallium	ug/L	ND	500	500	470	473	94	95	70-130	1	
Zinc	ug/L	0.76 mg/L	500	500	1240	1230	95	94	70-130	0	

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QUALITY CONTROL DATA

Project: Reynolds Mountain 31-2617
Pace Project No.: 92208786

QC Batch: MSV/27571 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92208786001, 92208786002, 92208786003, 92208786004

METHOD BLANK: 1241344 Matrix: Water
Associated Lab Samples: 92208786001, 92208786002, 92208786003, 92208786004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	07/14/14 14:44	
1,1,1-Trichloroethane	ug/L	ND	1.0	07/14/14 14:44	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	07/14/14 14:44	
1,1,2-Trichloroethane	ug/L	ND	1.0	07/14/14 14:44	
1,1-Dichloroethane	ug/L	ND	1.0	07/14/14 14:44	
1,1-Dichloroethene	ug/L	ND	1.0	07/14/14 14:44	
1,1-Dichloropropene	ug/L	ND	1.0	07/14/14 14:44	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	07/14/14 14:44	
1,2,3-Trichloropropane	ug/L	ND	1.0	07/14/14 14:44	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	07/14/14 14:44	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	07/14/14 14:44	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	07/14/14 14:44	
1,2-Dichlorobenzene	ug/L	ND	1.0	07/14/14 14:44	
1,2-Dichloroethane	ug/L	ND	1.0	07/14/14 14:44	
1,2-Dichloropropane	ug/L	ND	1.0	07/14/14 14:44	
1,3-Dichlorobenzene	ug/L	ND	1.0	07/14/14 14:44	
1,3-Dichloropropane	ug/L	ND	1.0	07/14/14 14:44	
1,4-Dichlorobenzene	ug/L	ND	1.0	07/14/14 14:44	
2,2-Dichloropropane	ug/L	ND	1.0	07/14/14 14:44	
2-Butanone (MEK)	ug/L	ND	5.0	07/14/14 14:44	
2-Chlorotoluene	ug/L	ND	1.0	07/14/14 14:44	
2-Hexanone	ug/L	ND	5.0	07/14/14 14:44	
4-Chlorotoluene	ug/L	ND	1.0	07/14/14 14:44	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	07/14/14 14:44	
Acetone	ug/L	ND	25.0	07/14/14 14:44	
Benzene	ug/L	ND	1.0	07/14/14 14:44	
Bromobenzene	ug/L	ND	1.0	07/14/14 14:44	
Bromochloromethane	ug/L	ND	1.0	07/14/14 14:44	
Bromodichloromethane	ug/L	ND	1.0	07/14/14 14:44	
Bromoform	ug/L	ND	1.0	07/14/14 14:44	
Bromomethane	ug/L	ND	2.0	07/14/14 14:44	
Carbon tetrachloride	ug/L	ND	1.0	07/14/14 14:44	
Chlorobenzene	ug/L	ND	1.0	07/14/14 14:44	
Chloroethane	ug/L	ND	1.0	07/14/14 14:44	
Chloroform	ug/L	ND	1.0	07/14/14 14:44	
Chloromethane	ug/L	ND	1.0	07/14/14 14:44	
cis-1,2-Dichloroethene	ug/L	ND	1.0	07/14/14 14:44	
cis-1,3-Dichloropropene	ug/L	ND	1.0	07/14/14 14:44	
Dibromochloromethane	ug/L	ND	1.0	07/14/14 14:44	
Dibromomethane	ug/L	ND	1.0	07/14/14 14:44	
Dichlorodifluoromethane	ug/L	ND	1.0	07/14/14 14:44	

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QUALITY CONTROL DATA

Project: Reynolds Mountain 31-2617
Pace Project No.: 92208786

METHOD BLANK: 1241344 Matrix: Water
Associated Lab Samples: 92208786001, 92208786002, 92208786003, 92208786004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	07/14/14 14:44	
Ethylbenzene	ug/L	ND	1.0	07/14/14 14:44	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	07/14/14 14:44	
m&p-Xylene	ug/L	ND	2.0	07/14/14 14:44	
Methyl-tert-butyl ether	ug/L	ND	1.0	07/14/14 14:44	
Methylene Chloride	ug/L	ND	2.0	07/14/14 14:44	
Naphthalene	ug/L	ND	1.0	07/14/14 14:44	
o-Xylene	ug/L	ND	1.0	07/14/14 14:44	
p-Isopropyltoluene	ug/L	ND	1.0	07/14/14 14:44	
Styrene	ug/L	ND	1.0	07/14/14 14:44	
Tetrachloroethene	ug/L	ND	1.0	07/14/14 14:44	
Toluene	ug/L	ND	1.0	07/14/14 14:44	
trans-1,2-Dichloroethene	ug/L	ND	1.0	07/14/14 14:44	
trans-1,3-Dichloropropene	ug/L	ND	1.0	07/14/14 14:44	
Trichloroethene	ug/L	ND	1.0	07/14/14 14:44	
Trichlorofluoromethane	ug/L	ND	1.0	07/14/14 14:44	
Vinyl acetate	ug/L	ND	2.0	07/14/14 14:44	
Vinyl chloride	ug/L	ND	1.0	07/14/14 14:44	
Xylene (Total)	ug/L	ND	2.0	07/14/14 14:44	
1,2-Dichloroethane-d4 (S)	%	104	70-130	07/14/14 14:44	
4-Bromofluorobenzene (S)	%	98	70-130	07/14/14 14:44	
Toluene-d8 (S)	%	101	70-130	07/14/14 14:44	

LABORATORY CONTROL SAMPLE: 1241345

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.0	102	70-130	
1,1,1-Trichloroethane	ug/L	50	49.0	98	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	53.9	108	70-130	
1,1,2-Trichloroethane	ug/L	50	54.6	109	70-130	
1,1-Dichloroethane	ug/L	50	49.2	98	70-130	
1,1-Dichloroethene	ug/L	50	51.6	103	70-132	
1,1-Dichloropropene	ug/L	50	52.4	105	70-130	
1,2,3-Trichlorobenzene	ug/L	50	54.1	108	70-135	
1,2,3-Trichloropropane	ug/L	50	53.8	108	70-130	
1,2,4-Trichlorobenzene	ug/L	50	52.6	105	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	51.8	104	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	51.0	102	70-130	
1,2-Dichlorobenzene	ug/L	50	51.8	104	70-130	
1,2-Dichloroethane	ug/L	50	51.5	103	70-130	
1,2-Dichloropropane	ug/L	50	51.4	103	70-130	
1,3-Dichlorobenzene	ug/L	50	51.2	102	70-130	
1,3-Dichloropropane	ug/L	50	51.9	104	70-130	
1,4-Dichlorobenzene	ug/L	50	50.4	101	70-130	

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QUALITY CONTROL DATA

Project: Reynolds Mountain 31-2617
Pace Project No.: 92208786

LABORATORY CONTROL SAMPLE: 1241345

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	48.1	96	58-145	
2-Butanone (MEK)	ug/L	100	101	101	70-145	
2-Chlorotoluene	ug/L	50	50.5	101	70-130	
2-Hexanone	ug/L	100	107	107	70-144	
4-Chlorotoluene	ug/L	50	50.1	100	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	107	107	70-140	
Acetone	ug/L	100	95.0	95	50-175	
Benzene	ug/L	50	52.1	104	70-130	
Bromobenzene	ug/L	50	50.9	102	70-130	
Bromochloromethane	ug/L	50	52.4	105	70-130	
Bromodichloromethane	ug/L	50	55.0	110	70-130	
Bromoform	ug/L	50	57.1	114	70-130	
Bromomethane	ug/L	50	51.4	103	54-130	
Carbon tetrachloride	ug/L	50	51.5	103	70-132	
Chlorobenzene	ug/L	50	47.7	95	70-130	
Chloroethane	ug/L	50	51.0	102	64-134	
Chloroform	ug/L	50	54.6	109	70-130	
Chloromethane	ug/L	50	49.3	99	64-130	
cis-1,2-Dichloroethene	ug/L	50	52.0	104	70-131	
cis-1,3-Dichloropropene	ug/L	50	52.2	104	70-130	
Dibromochloromethane	ug/L	50	54.8	110	70-130	
Dibromomethane	ug/L	50	52.3	105	70-131	
Dichlorodifluoromethane	ug/L	50	49.6	99	56-130	
Diisopropyl ether	ug/L	50	48.4	97	70-130	
Ethylbenzene	ug/L	50	50.9	102	70-130	
Hexachloro-1,3-butadiene	ug/L	50	52.8	106	70-130	
m&p-Xylene	ug/L	100	103	103	70-130	
Methyl-tert-butyl ether	ug/L	50	49.5	99	70-130	
Methylene Chloride	ug/L	50	51.4	103	63-130	
Naphthalene	ug/L	50	53.9	108	70-138	
o-Xylene	ug/L	50	51.2	102	70-130	
p-Isopropyltoluene	ug/L	50	51.7	103	70-130	
Styrene	ug/L	50	53.9	108	70-130	
Tetrachloroethene	ug/L	50	51.6	103	70-130	
Toluene	ug/L	50	51.1	102	70-130	
trans-1,2-Dichloroethene	ug/L	50	52.1	104	70-130	
trans-1,3-Dichloropropene	ug/L	50	52.1	104	70-132	
Trichloroethene	ug/L	50	51.6	103	70-130	
Trichlorofluoromethane	ug/L	50	53.7	107	62-133	
Vinyl acetate	ug/L	100	105	105	66-157	
Vinyl chloride	ug/L	50	56.5	113	50-150	
Xylene (Total)	ug/L	150	154	103	70-130	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			100	70-130	

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QUALITY CONTROL DATA

Project: Reynolds Mountain 31-2617
Pace Project No.: 92208786

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1241346 1241347

Parameter	Units	92208959005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	45.1	46.5	90	93	70-166	3	
Benzene	ug/L	ND	50	50	51.6	52.2	103	104	70-148	1	
Chlorobenzene	ug/L	ND	50	50	56.0	57.8	112	116	70-146	3	
Toluene	ug/L	ND	50	50	50.7	51.4	101	103	70-155	1	
Trichloroethene	ug/L	ND	50	50	52.9	53.7	106	107	69-151	1	
1,2-Dichloroethane-d4 (S)	%						94	92	70-130		
4-Bromofluorobenzene (S)	%						98	99	70-130		
Toluene-d8 (S)	%						100	100	70-130		

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QUALITY CONTROL DATA

Project: Reynolds Mountain 31-2617
Pace Project No.: 92208786

QC Batch: WETA/19559 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 92208786001, 92208786002, 92208786003, 92208786004

METHOD BLANK: 1240542 Matrix: Water
Associated Lab Samples: 92208786001, 92208786002, 92208786003, 92208786004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	07/11/14 16:24	

LABORATORY CONTROL SAMPLE: 1240543

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	5	4.9	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1240544 1240545

Parameter	Units	92208815001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Nitrogen, Ammonia	mg/L	33.4	5	5	39.1	39.4	115	122	90-110	1	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1240546 1240547

Parameter	Units	92208780004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Nitrogen, Ammonia	mg/L	<0.10	5	5	5.0	5.1	100	101	90-110	1	

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QUALITY CONTROL DATA

Project: Reynolds Mountain 31-2617
Pace Project No.: 92208786

QC Batch: WETA/19582 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 92208786001, 92208786002, 92208786003, 92208786004

METHOD BLANK: 1241434 Matrix: Water
Associated Lab Samples: 92208786001, 92208786002, 92208786003, 92208786004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.020	07/14/14 17:47	

LABORATORY CONTROL SAMPLE: 1241435

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.4	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1241436 1241437

Parameter	Units	92207605001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	ND	2.5	2.5	2.3	2.3	93	93	75-125	0	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1241438 1241439

Parameter	Units	92207631001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	35.5	2.5	2.5	36.7	37.2	49	69	75-125	1	M6

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QUALITY CONTROL DATA

Project: Reynolds Mountain 31-2617
Pace Project No.: 92208786

QC Batch: WETA/19590 | Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E | Analysis Description: 4500 Chloride
Associated Lab Samples: 92208786001, 92208786002

METHOD BLANK: 1241952 | Matrix: Water
Associated Lab Samples: 92208786001, 92208786002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	07/15/14 20:17	

LABORATORY CONTROL SAMPLE: 1241953

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	19.6	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1242131 1242132

Parameter	Units	92207815013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chloride	mg/L	12.3	20	20	32.6	31.7	101	97	75-125	3	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1242133 1242134

Parameter	Units	92207724001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chloride	mg/L	24.4	20	20	43.0	43.4	93	95	75-125	1	

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QUALITY CONTROL DATA

Project: Reynolds Mountain 31-2617
Pace Project No.: 92208786

QC Batch: WETA/19646 | Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E | Analysis Description: 4500 Chloride
Associated Lab Samples: 92208786003, 92208786004

METHOD BLANK: 1245885 | Matrix: Water
Associated Lab Samples: 92208786003, 92208786004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	07/21/14 02:08	

LABORATORY CONTROL SAMPLE: 1245886

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	19.6	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1245887 | 1245888

Parameter	Units	92208786003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chloride	mg/L	43.2	20	20	68.8	68.3	128	126	75-125	1	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1245889 | 1245890

Parameter	Units	92208786004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chloride	mg/L	15.7	20	20	35.1	35.2	97	98	75-125	0	

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QUALITY CONTROL DATA

Project: Reynolds Mountain 31-2617
Pace Project No.: 92208786

QC Batch: WETA/19599 Analysis Method: SM 5220D
QC Batch Method: SM 5220D Analysis Description: 5220D COD
Associated Lab Samples: 92208786001, 92208786002, 92208786003, 92208786004

METHOD BLANK: 1242570 Matrix: Water
Associated Lab Samples: 92208786001, 92208786002, 92208786003, 92208786004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	25.0	07/16/14 17:00	

LABORATORY CONTROL SAMPLE: 1242571

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	750	797	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1242572 1242573

Parameter	Units	92208786001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chemical Oxygen Demand	mg/L	ND	750	750	464	464	62	62	75-125	0	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1242574 1242575

Parameter	Units	92208975002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chemical Oxygen Demand	mg/L	324	750	750	735	728	55	54	75-125	1	M1

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QUALITY CONTROL DATA

Project: Reynolds Mountain 31-2617
Pace Project No.: 92208786

QC Batch: WETA/19557 Analysis Method: SM 5310B
QC Batch Method: SM 5310B Analysis Description: 5310B TOC
Associated Lab Samples: 92208786001, 92208786002, 92208786003, 92208786004

METHOD BLANK: 1240387 Matrix: Water
Associated Lab Samples: 92208786001, 92208786002, 92208786003, 92208786004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	07/14/14 17:04	

LABORATORY CONTROL SAMPLE: 1240388

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	25	23.5	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1240389 1240390

Parameter	Units	92208342005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Total Organic Carbon	mg/L	3.6	25	25	26.2	26.4	90	91	75-125	1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1240391 1240392

Parameter	Units	92208780004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Total Organic Carbon	mg/L	3.6	25	25	27.6	27.6	96	96	75-125	0	

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QUALIFIERS

Project: Reynolds Mountain 31-2617
Pace Project No.: 92208786

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.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

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TNI - The NELAC Institute.

LABORATORIES

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

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Reynolds Mountain 31-2617
Pace Project No.: 92208786

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92208786001	**MW-1**	EPA 200.7	MPRP/16430	EPA 200.7	ICP/14841
92208786002	**MW-2**	EPA 200.7	MPRP/16430	EPA 200.7	ICP/14841
92208786003	**MW-3**	EPA 200.7	MPRP/16430	EPA 200.7	ICP/14841
92208786004	**MW-4**	EPA 200.7	MPRP/16430	EPA 200.7	ICP/14841
92208786001	**MW-1**	EPA 245.1	MERP/6838	EPA 245.1	MERC/6588
92208786002	**MW-2**	EPA 245.1	MERP/6838	EPA 245.1	MERC/6588
92208786003	**MW-3**	EPA 245.1	MERP/6838	EPA 245.1	MERC/6588
92208786004	**MW-4**	EPA 245.1	MERP/6838	EPA 245.1	MERC/6588
92208786001	**MW-1**	EPA 8260	MSV/27571		
92208786002	**MW-2**	EPA 8260	MSV/27571		
92208786003	**MW-3**	EPA 8260	MSV/27571		
92208786004	**MW-4**	EPA 8260	MSV/27571		
92208786001	**MW-1**	EPA 350.1	WETA/19559		
92208786002	**MW-2**	EPA 350.1	WETA/19559		
92208786003	**MW-3**	EPA 350.1	WETA/19559		
92208786004	**MW-4**	EPA 350.1	WETA/19559		
92208786001	**MW-1**	EPA 353.2	WETA/19582		
92208786002	**MW-2**	EPA 353.2	WETA/19582		
92208786003	**MW-3**	EPA 353.2	WETA/19582		
92208786004	**MW-4**	EPA 353.2	WETA/19582		
92208786001	**MW-1**	SM 4500-Cl-E	WETA/19590		
92208786002	**MW-2**	SM 4500-Cl-E	WETA/19590		
92208786003	**MW-3**	SM 4500-Cl-E	WETA/19646		
92208786004	**MW-4**	SM 4500-Cl-E	WETA/19646		
92208786001	**MW-1**	SM 5220D	WETA/19599		
92208786002	**MW-2**	SM 5220D	WETA/19599		
92208786003	**MW-3**	SM 5220D	WETA/19599		
92208786004	**MW-4**	SM 5220D	WETA/19599		
92208786001	**MW-1**	SM 5310B	WETA/19557		
92208786002	**MW-2**	SM 5310B	WETA/19557		
92208786003	**MW-3**	SM 5310B	WETA/19557		
92208786004	**MW-4**	SM 5310B	WETA/19557		

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Pace Analytical www.pacelabs.com	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: June 10, 2014 Page 1 of 2
	Document No.: F-ASV-CS-003-rev.14	Issuing Authorities: Pace Asheville Quality Office

Client Name: ECS Carolinas

Courier (Circle): Fed Ex UPS USPS (Client) Commercial Pace Other_____

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

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

Thermometer Used: IR Gun#3 -130265963 **Type of Ice:** (Wet) Blue None ☑ Samples on Ice, cooling process has begun

IR Gun #4 SN:140290365 Other:_____

Temp Correction Factor: Add/Subtract 6.1 C

Corrected Cooler Temp.: 4.0 C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 7/10/14 AC

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. Standard
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	
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: Jim Beuers Date/Time: 7-10-14

Comments/ Resolution: He needs PP Metals.

SCURF Review:	AMB	**Date:**	7-10-14
SRF Review:	MMD	**Date:**	7-11-14

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)

Place label here

OR

Handwrite project number (if no label available)

92208786

Pace Analytical
www.pacelabs.com

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

1797383

Section A Required Client Information:

Company: ECS CAROLINAS
Address: 1900 HENDERSONVILLE RD #10
ASHEVILLE NC
Email To: JBEVERS@ECSLIMITED.COM
Phone: 828-665-2307 Fax:
Requested Due Date/TAT: 5

Section B Required Project Information:

Report To: JIM BEVERS
Copy To:
Purchase Order No.: 31-2617
Project Name: REYNOLDS MOUNTAIN
Project Number: 31-2617

Section C Invoice Information:

Attention: JIM BEVERS
Company Name: SECTION A
Address:
Pace Quote Reference:
Pace Project Manager: AB
Pace Profile #: U175-3

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☒ OTHER BROWNFIELD

Site Location STATE: NC

Requested Analysis Filtered (Y/N)

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

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) 8260	Metals 200.7	Nitrate/Nitrite	Chlorides	COD	Ammonia	TOC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-1	WT	G			7/10	940		10	X	X	X	X					X	X	X	X	X	X			001
2	MW-2	|	|			|	1115		|	|	|	|	|				|	|	|	|	|	|			002
3	MW-3	|	|			|	1215		|	|	|	|	|				|	|	|	|	|	|			003
4	MW-4	|	|			|	1345		|	|	|	|	|				|	|	|	|	|	|			004
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature] ECS	7/10/14	1444	[signature]	7/10/14	14:44	4.0	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: JAMES C BEVERS
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 07/10/14

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 on any invoices not paid within 30 days.