

FORM
4
Rev 12/05State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303)894-2100 Fax: (303)894-2109



SUNDRY NOTICE

Submit original plus one copy. This form is to be used for general, technical and environmental sundry information. For proposed or completed operations, describe in full on Technical Information Page (Page 2 of this form.) Identify well or other facility by API Number or by OGCC Facility ID. Operator shall send an informational copy of all sundry notices for wells located in High Density Areas to the Local Government Designee (Rule 603b.)

1. OGCC Operator Number: 10079		4. Contact Name: Cole Kilstrom		Complete the Attachment Checklist OP OGCC
2. Name of Operator: Antero Resources Piceance Corporation		Phone: 303-357-6709		
3. Address: 1625 17th St STE 300 ATTN: Cole Kilstrom City: Denver State: CO Zip: 80202		Fax: 303-357-7315		
5. API Number: 05-045-12391		OGCC Facility ID Number: 336016		Survey Plat
6. Well/Facility Name: North Bank		7. Well/Facility Number: A6		Directional Survey
8. Location (Qtr, Sec, Twp, Rng, Meridian): SENW 12 6S 93W 6		10. Field Name: Mamm Creek		Surface Expt Diagram
9. County: Garfield		11. Federal, Indian or State Lease Number:		Technical Info Page
				Other

General Notice

☐ CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtr/qtr is substantive and requires a new permit)

Change of Surface Footage from Exterior Section Lines: ☐ FHL/FSL ☐ FEL/FWL

Change of Surface Footage to Exterior Section Lines: ☐ ☐ ☐

Change of Bottomhole Footage from Exterior Section Lines: ☐ ☐ ☐

Change of Bottomhole Footage to Exterior Section Lines: ☐ ☐ ☐ attach directional survey

Bottomhole location Qtr/Qtr, Sec, Twp, Rng, Mer

Latitude: _____ Distance to nearest property line: _____ Distance to nearest bldg, public rd, utility or RR: _____

Longitude: _____ Distance to nearest lease line: _____ Is location in a High Density Area (rule 603b)? Yes/No: ☐

Ground Elevation: _____ Distance to nearest well same formation: _____ Surface owner consultation date: _____

GPS DATA:
Date of Measurement: _____ PDOP Reading: _____ Instrument Operator's Name: _____

☐ CHANGE SPACING UNIT
Formation: _____ Formation Code: _____ Spacing order number: _____ Unit Acreage: _____ Unit configuration: _____

☐ Remove from surface bond
Signed surface use agreement attached: ☐

☐ CHANGE OF OPERATOR (prior to drilling):
Effective Date: _____
Plugging Bond: ☐ Blanket ☐ Individual

☐ CHANGE WELL NAME
From: _____ NUMBER: _____
To: _____
Effective Date: _____

☐ ABANDONED LOCATION:
Was location ever built? ☐ Yes ☐ No
Is site ready for inspection? ☐ Yes ☐ No
Date Ready for Inspection: _____

☐ NOTICE OF CONTINUED SHUT IN STATUS
Date well shut in or temporarily abandoned: _____
Has Production Equipment been removed from site? ☐ Yes ☐ No
MIT required if shut in longer than two years. Date of last MIT: _____

☐ SPUD DATE: _____ ☐ REQUEST FOR CONFIDENTIAL STATUS (6 mos from date casing set)

☐ SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK
Method used: _____ Cementing tool setting/perf depth: _____ Cement volume: _____ Cement top: _____ Cement bottom: _____ Date: _____

☐ RECLAMATION: Attach technical page describing final reclamation procedures per Rule 1004.
Final reclamation will commence on approximately: _____ ☐ Final reclamation is completed and site is ready for inspection.

Technical Engineering/Environmental Notice

☐ Notice of Intent
Approximate Start Date: _____

☐ Report of Work Done
Date Work Completed: _____

Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)

<input type="checkbox"/> Intent to Recomplete (submit form 2)	<input type="checkbox"/> Request to Vent or Flare	<input type="checkbox"/> E&P Waste Disposal
<input type="checkbox"/> Change Drilling Plans	<input type="checkbox"/> Repair Well	<input type="checkbox"/> Beneficial Reuse of E&P Waste
<input type="checkbox"/> Gross Interval Changed?	<input type="checkbox"/> Rule 502 variance requested	<input checked="" type="checkbox"/> Status Update/Change of Remediation Plans for Spills and Releases
<input type="checkbox"/> Casing/Cementing Program Change	<input type="checkbox"/> Other: _____	

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.

Signed: Cole Kilstrom Date: 2/28/2013 Email: CKilstrom@anteroresources.com
 Print Name: Cole Kilstrom Title: ENV Specialist

OGCC Approved: Alex Fischer Title: FOR Date: 03/28/2013

CONDITIONS OF APPROVAL, IF ANY:

Alex Fischer
Supervisor
Western Region

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

- | | |
|--|--------------------------|
| 1. OGCC Operator Number: 10079 | API Number: 05-045-12391 |
| 2. Name of Operator: Antero Resources Piceance Corp. OGCC Facility ID # 336016 | |
| 3. Well/Facility Name: North Bank | Well/Facility Number: A6 |
| 4. Location (QtrQtr, Sec, Twp, Rng, Meridian): SENW 12 6S 93W 6 | |

This form is to be completed whenever a Sundry Notice is submitted requiring detailed report of work to be performed or completed. This form shall be transmitted within 30 days of work completed as a "subsequent" report and must accompany Form 4, page 1.

5. **DESCRIBE PROPOSED OR COMPLETED OPERATIONS**

Summary of Corrective Actions and Request for Remediation Closure:

COGCC Remediation Project # 3805 arose from a gas seep observed at Antero's North Bank A6 well in Garfield County on July 8, 2006. In response to the incident, Antero hired Cordilleran Compliance Services, Inc. to conduct an initial site assessment and to conduct a series of water well samplings.

In a November 21, 2006 report, submitted to the COGCC, Cordilleran reported that the sampling of the water wells determined that the nearby wells had not been contaminated with BTEX, MTBE, or dissolved methane from the incident. Cordilleran concluded that there were no impacts to groundwater from the incident. The water well confirmation sampling is attached hereto as Attachment 1.

Antero conducted soil confirmation sampling on January 10, 2013. The January 2013 sample results demonstrate site compliance with COGCC standards. The January 2013 sample report is attached as Attachment 2, and the accompanying sample location map is attached hereto as Attachment 2-A.

Because site sampling confirmed that the North Bank incident did not result in negative impacts, Antero respectfully requests final COGCC closure of Remediation Project # 3805 in accordance with COGCC Rule 909(e).

ATTACHMENT 1

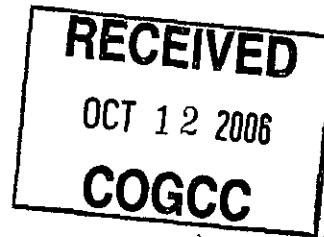


~~ST-111-2-09806-2~~

#3805

#200099420

826 21 1/2 Road
Grand Junction, CO 81505
T: 970.263.7800
F: 970.263.7456



SENW 12-65-93W

05-045-12391

October 9, 2006

Mr. Terry Dobkins
Antero Resources Corporation
1625 17th Street Suite 300
Denver, Colorado 80202

Subject: Antero Resources Corporation, Natural Gas Well - North Bank A-6
Garfield County, Colorado
Results of Follow-up Gas Survey and Water Quality Analysis

Dear Mr. Dobkins:

Cordilleran Compliance Services, Inc., on behalf of Antero Resources Corporation, is submitting the results of the follow up surface gas detection survey and water quality sampling of domestic and irrigation wells within 1/4-mile radius of their natural gas well North Bank A-6, following a release to the surface during drilling operations. An initial site assessment was conducted following the July 8, 2006 event at the A-6 well and the results were documented in the September 12, 2006 report. The second follow up sampling event was conducted on September 20, 2006.

Cordilleran personnel coordinated with Mr. John McBride, Mr. Bob Hoffmeister and Mr. Scott Balcomb to sample their water wells for dissolved methane, benzene, toluene, ethylbenzene, and total xylenes (BTEX); methyl-tert-butyl ether (MTBE); sulfate reducing, iron related, and slime forming bacteria (BART analysis); major anions, alkalinity, hydrogen sulfide, total dissolved solids, ammonia, and total metals. A ground surface gas detection survey was also conducted at each residence, using a Pragmatics gas detector. Follow up sampling was conducted following the same methods and procedures used during the initial site assessment in July 2006, refer to September 12, 2006 report.

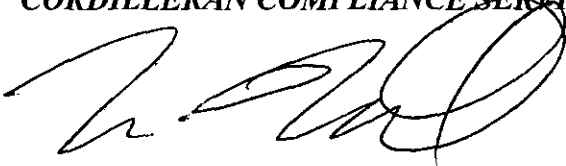
Conclusions

Dissolved methane and BTEX/MTBE were not detected in any of the four water wells sampled within the 1/4-mile radius of the North Bank A-6 location. Results of the field measurements and laboratory analyses are comparable to the baseline samples collected for the area. The Pragmatic gas survey conducted at the time of the assessment yielded no detection of natural gas constituents venting from the soil or from the water wells sampled.

The assessment performed during the third week of September, 2006 indicates that there were no impacts to the groundwater in the vicinity of the sampled wells at the time of the investigation.

Cordilleran appreciates the opportunity to provide environmental services to Antero. Please do not hesitate to contact me at (970) 263-7800 should you have any questions or concerns regarding this information.

CORDILLERAN COMPLIANCE SERVICES, INC.



Travis Marshall
Field Technician

Attachments:

Appendix A – Field Parameter Summary Tables
Appendix B – Groundwater Analytical Summary Tables
Appendix C – Analytical Results

cc: Brian Macke, COGCC
Bob Chesson, COGCC
Jaime Adkins, COGCC
Bob Hoffmeister
Scott Balcomb
John McBride

Appendix A
Field Parameter Summary Tables

Table 1
Appendix A
Groundwater Field Parameters Summary
Antero Resources North Bank A-6 Response

LOCATION:
John P. McBride
29512 Hwy 6, Rifle, CO

Sample Date	Sample ID	Temperature (°C)	Specific Conductance (mS/cm)	Dissolved Oxygen (mg/L)	pH (pH units)	Total Dissolved Solids (TDS) (g/L)	Turbidity (NTU)	Purge/Flow Rate (gpm)	Sampled Filtered Water ¹	Depth to Water (feet)	Comments
12/6/2005	JPM-W1	10.77	1.680	1.86	7.90	1.1	9.9	1.5	Yes	NM	Clear, No Odor
7/8/2006	MCBR1	12.68	1.83	0.33	8.19	1.2	25.1	7	No	34.15	Sulfur odor
7/10/2006	MCBR1	12.91	1.83	0.21	8.17	1.2	18	7	No	34.05	Sulfur odor
8/17/2006	MCBR1	12.55	1.83	0.11	7.19	1.2	37.9	6	No	34.49	Sulfur odor, effervescent
9/20/2006	MCBR1	12.91	1.82	0.47	7.42	1.2	43.7	6	No	34.45	No adverse observations noted

Latitude/Longitude - Field GPS reading, Datum: WGS84

Temp (°C) - temperature degrees Celsius

mS/cm - milliSiemens per centimeter

mg/l - milligrams per liter

NTU - nephelometric turbidity units

gpm - gallons per minute (approximate)

NM - Not measured

¹ - Sample point after inline filtering

* - First field reading, well ran dry

Table 2
Appendix A
Groundwater Field Parameters Summary
Antero Resources North Bank A-6 Response

LOCATION:
 Scott M. Balcomb
 29512 Hwy 6, Rifle, CO

Sample Date	Sample ID	Temperature (°C)	Specific Conductance (mS/cm)	Dissolved Oxygen (mg/L)	pH (pH units)	Total Dissolved Solids (TDS) (g/L)	Turbidity (NTU)	Purge/Flow Rate (gpm)	Sampled Filtered Water ¹	Depth to Water (feet)	Comments
12/6/2005	SMB-W1	9.09	0.872	2.08	7.94	0.6	7.1	2	Unknown	NM	Clear, No Odor
7/10/2006	BALC1	12.62	1.53	1.5	8.15	1	16.9	6	Unknown	NM	No adverse observations noted
8/17/2006	BALC1	12.37	1.55	0.19	7.17	1	37.2	6	Unknown	NM	No adverse observations noted
9/20/2006	BALC1	12.4	1.55	0.18	7.29	1	43.5	7	Unknown	NM	No adverse observations noted

Latitude/Longitude - Field GPS reading, Datum: WGS84

Temp (°C) - temperature degrees Celsius

mS/cm - milliSiemens per centimeter

mg/l - milligrams per liter

NTU - nephelometric turbidity units

gpm - gallons per minute (approximate)

NM - Not measured

¹ - Sample point after inline filtering

* - First field reading, well ran dry

Table 3
Appendix A
Groundwater Field Parameters Summary
Antero Resources North Bank A-6 Response

LOCATION:

Robert L. Hoffmeister
29461 Hwy 6, Rifle, CO

Sample Date	Sample ID	Temperature (°C)	Specific Conductance (mS/cm)	Dissolved Oxygen (mg/L)	pH (pH units)	Total Dissolved Solids (TDS) (g/L)	Turbidity (NTU)	Purge/Flow Rate (gpm)	Sampled Filtered Water ¹	Depth to Water (feet)	Comments
12/6/2005	RLH-W1	11.2	1.530	0.88	8.60	1.0	28.9	2	No	NM	Slightly cloudy, slight odor-soap?
7/10/2006	HOFF1	13.67	1.680	5.1	8.32	1.1	24.4	6	No	NM	Reducing odor
8/17/2006	HOFF1	12	1.670	0.37	7.28	1.1	44.7	8	No	NM	Reducing odor, cloudy
9/20/2006	HOFF1	12.06	1.620	3.37	7.68	1	44.7	127	No	NM	Reducing odor, cloudy, suds present

Latitude/Longitude - Field GPS reading, Datum: WGS84

Temp (°C) - temperature degrees Celsius

mS/cm - milliSiemens per centimeter

mg/l - milligrams per liter

NTU - nephelometric turbidity units

gpm - gallons per minute (approximate)

NM - Not measured

¹ - Sample point after inline filtering

* - First field reading, well ran dry

Table 4
Appendix A
Groundwater Field Parameters Summary
Antero Resources North Bank A-6 Response

LOCATION:

Robert L. Hoffmeister
29461 Hwy 6, Rifle, CO

Sample Date	Sample ID	Temperature (°C)	Specific Conductance (mS/cm)	Dissolved Oxygen (mg/L)	pH (pH units)	Total Dissolved Solids (TDS) (g/L)	Turbidity (NTU)	Purge/Flow Rate (gpm)	Sampled Filtered Water ¹	Depth to Water (feet)	Comments
7/10/2006	HOFF2	11.65	1.920	0.66	8.13	1.2	18.4	10	No	NM	No adverse observations noted
8/17/2006	HOFF2	11.78	1.940	1.5	7.15	1.2	41.8	10	No	NM	No adverse observations noted
9/20/2006	HOFF2	11.59	1.940	0.22	7.25	1.2	2.4	10	No	NM	No adverse observations noted

Latitude/Longitude - Field GPS reading, Datum: WGS84

Temp (°C) - temperature degrees Celsius

mS/cm - milliSiemens per centimeter

mg/l - milligrams per liter

NTU - nephelometric turbidity units

gpm - gallons per minute (approximate)

NM - Not measured

¹ - Sample point after inline filtering

* - First field reading, well ran dry

Appendix B
Groundwater Analytical Summary Tables

Table 1
Appendix B
Groundwater Analytical Summary
Antero Resources - North Bank A-6 Response

LOCATION:
John P. McBride
29512 Hwy 6, Rifle, CO

Date Sampled	12/6/2005	7/10-11/2006	8/17/2006	9/20/2006			
Sample ID	JPM-W1	MCBR1	MCBR1	MCBR1	EPA Drinking Water Standards	COGCC Standards	EPA National Secondary Drinking Water Standards
Time Sampled	1037	1140	920	1200			
Benzene (ug/l)	<1.0	<0.50	<0.50	<0.50	5	5	
Toluene (ug/l)	<5.0	<5.0	<5.0	<5.0	1,000	1,000	
Ethylbenzene (ug/L)	<1.0	<0.50	<0.50	<0.50	680	680	
Xylenes (total) (ug/l)	<3.0	<1.0	<1.0	<1.0	10,000	10,000	
Methyl Tertiary Butyl Ether (MTBE) (ug/L)	<1.0	<1.0	<1.0	<1.0	N/A	N/A	
Methane (ppm)	<0.010	<0.010	<0.010	<0.010	N/A	N/A	
Total Alkalinity (mg/L)	390	430	460	430			
Alkalinity Bicarbonate (mg/L)	360	430	460	430			
Alkalinity Carbonate (mg/L)	0.0	0	0	0			
Bromide (mg/L)	<1.0	<1.0	<1.0	<1.0			
Chloride (mg/L)	120	120	120	120			
Fluoride (mg/L)	0.49	0.49	0.5	0.48	4		
Nitrate (mg/L)	<0.10	<0.10	0.13	<0.10	10		
Nitrite (mg/L)	<0.10	<0.10	<0.10	<0.10	1		
Sulfate (mg/L)	200	190	210	210			250
Ammonia Nitrogen (mg/L)	<0.10	<0.10	0.3	0.17			
Sulfide (mg/L)	<0.050	<0.050	<0.050	<0.050			
Total Dissolved Solids (TDS) (mg/L)	960	970	1000	960		< 1.25 x back ground	500
Total Arsenic (mg/L)	<0.020	0.0011	<0.0010	<0.0010	0.001		
Total Barium (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	2		
Total Boron (mg/L)	0.24	<0.20	<0.20	0.21			
Total Cadmium (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	0.005		
Total Calcium (mg/L)	<0.5	0.72	0.72	<0.5			
Total Chromium (mg/L)	<0.010	<0.010	<0.010	<0.010	0.1		
Total Iron (mg/L)	<0.10	<0.10	<0.10	<0.10			0.3
Total Lead (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050			
Total Magnesium (mg/L)	0.26	0.45	0.39	0.32			
Total Manganese (mg/L)	<0.010	<0.010	<0.010	<0.010			0.05
Total Potassium (mg/L)	<0.5	0.61	0.61	<0.50			
Total Selenium (mg/L)	<0.020	<0.020	<0.020	<0.020	0.05		
Total Silver (mg/L)	<0.010	<0.010	<0.010	<0.010	0.10		
Total Sodium (mg/L)	350	390	360	390			
Iron Related Bacteria (CFU/ml)	9,000	9,000	9,000	500			
Sulfate Reducing Bacteria (CFU/ml)	5,000	5,000	5,000	1,200			
Slime Forming Bacteria (CFU/ml)	66,500	66,500	66,500	66,500			

* - Lat/Long Datum WGS84

ug/l - micrograms per liter

ppm - parts per million

mg/L - milligrams per liter

CFU/ml - colony forming units per milliliter (approximate)

NA - Not Analyzed

Table 2
Appendix B
Groundwater Analytical Summary
Antero Resources - North Bank A-6 Response

LOCATION:
Scott M. Balcomb
29512 Hwy 6, Rifle, CO

704695
↓

Date Sampled	12/6/2005	7/10-11/2006	8/17/2006	9/20/2006	EPA Drinking Water Standards	COGCC Standards	EPA National Secondary Drinking Water Standard
Sample ID	SMB-W1	BALC1	BALC1	BALC1			
Time Sampled	0936	1315	1010	1010			
Benzene (ug/l)	<1.0	<0.50	<0.50	<0.50	5	5	
Toluene (ug/l)	<5.0	<5.0	<5.0	<5.0	1,000	1,000	
Ethylbenzene (ug/L)	<1.0	<0.50	<0.50	<0.50	680	680	
Xylenes (total) (ug/l)	<3.0	<1.5	<1.5	<1.5	10,000	10,000	
Methyl Tertiary Butyl Ether (MTBE) (ug/L)	<1.0	<1.0	<1.0	<1.0	N/A	N/A	
Methane (ppm)	<0.010	<0.010	<0.010	<0.010	N/A	N/A	
Total Alkalinity (mg/L)	370	270	410	330			
Alkalinity Bicarbonate (mg/L)	350	270	410	330			
Alkalinity Carbonate (mg/L)	0.0	0	0	0			
Bromide (mg/L)	<1.0	<1.0	<1.0	<1.0			
Chloride (mg/L)	110	110	110	120			
Fluoride (mg/L)	0.54	0.51	0.53	0.54	4		
Nitrate (mg/L)	0.45	0.41	0.42	0.43	10		
Nitrite (mg/L)	<0.10	<0.10	<0.10	<0.10	1		
Sulfate (mg/L)	190	190	180	180			250
Ammonia Nitrogen (mg/L)	0.14	<0.10	0.16	<0.10			
Sulfide (mg/L)	<0.050	<0.050	<0.050	<0.050			
Total Dissolved Solids (TDS) (mg/L)	810	810	980	810		< 1.25 x back ground	500
Total Arsenic (mg/L)	<0.020	0.0011	<0.0010	0.0014	0.001		
Total Barium (mg/L)	0.034	0.039	0.036	0.038	2		
Total Boron (mg/L)	0.23	<0.20	<0.20	<0.20			
Total Cadmium (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	0.005		
Total Calcium (mg/L)	74	76	77	80			
Total Chromium (mg/L)	<0.010	<0.010	<0.010	<0.010	0.01		
Total Iron (mg/L)	<0.10	<0.10	<0.10	<0.10			0.3
Total Lead (mg/L)	0.0069	<0.0050	<0.0050	<0.0050			
Total Magnesium (mg/L)	42	42	41	45			
Total Manganese (mg/L)	0.25	0.27	0.28	0.31			0.05
Total Potassium (mg/L)	2.4	3	2.8	2.6			
Total Selenium (mg/L)	<0.020	<0.020	<0.020	<0.020	0.05		
Total Silver (mg/L)	<0.010	<0.010	<0.010	<0.010	0.10		
Total Sodium (mg/L)	160	170	160	170			
Iron Related Bacteria (CFU/ml)	Absent	9,000	9,000	Absent			
Sulfate Reducing Bacteria (CFU/ml)	Absent	Absent	Absent	Absent			
Slime Forming Bacteria (CFU/ml)	66,500	66,500	66,500	66,500			

* - Lat/Long Datum WGS84

ug/l - micrograms per liter

ppm - parts per million

mg/L - milligrams per liter

CFU/ml - colony forming units per milliliter (approximate)

NA - Not Analyzed

Table 3
Appendix B
Groundwater Analytical Summary
Antero Resources - North Bank A-6 Response

LOCATION:
Robert L. Hoffmeister
29461 Hwy 6, Rifle, CO

704696

Date Sampled	12/6/2005	7/10-11/2006	8/17/2006	9/20/2006			EPA National Secondary Drinking Water Standard
Sample ID	RLH-W1	HOFF1	HOFF1	HOFF1			
Time Sampled	1213	1035	845	1100	EPA Drinking Water Standards	COGCC Standards	
Benzene (ug/L)	<1.0	<0.50	<0.50	<0.50	5	5	
Toluene (ug/L)	<5.0	<5.0	<5.0	<5.0	1,000	1,000	
Ethylbenzene (ug/L)	<1.0	<0.50	<0.50	<0.50	680	680	
Xylenes (total) (ug/L)	<3.0	<1.5	<1.5	<1.5	10,000	10,000	
Methyl Tertiary Butyl Ether (MTBE) (ug/L)	<1.0	<1.0	<1.0	<1.0	N/A	N/A	
Methane (ppm)	0.019	<0.010	<0.010	<0.010	N/A	N/A	
Total Alkalinity (mg/L)	290	350	410	310			
Alkalinity Bicarbonate (mg/L)	290	350	410	310			
Alkalinity Carbonate (mg/L)	0.0	0	0	0			
Bromide (mg/L)	<1.0	<1.0	<1.0	<1.0			
Chloride (mg/L)	140	130	140	140			
Fluoride (mg/L)	0.40	0.4	0.39	0.46	4		
Nitrate (mg/L)	<0.10	0.27	0.2	0.15	10		
Nitrite (mg/L)	<0.10	<0.10	<0.10	<0.10	1		
Sulfate (mg/L)	230	210	210	230			250
Ammonia Nitrogen (mg/L)	0.14	0.11	0.3	0.2			
Sulfide (mg/L)	<0.050	<0.050	<0.050	0.06			
Total Dissolved Solids (TDS) (mg/L)	870	900	930	860		< 1.25 x back grou	500
Total Arsenic (mg/L)	<0.020	0.0031	0.0026	0.014	0.010		
Total Barium (mg/L)	0.077	0.058	0.045	0.14	2		
Total Boron (mg/L)	0.36	<0.20	<0.20	0.22			
Total Cadmium (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	0.005		
Total Calcium (mg/L)	40	73	73	44			
Total Chromium (mg/L)	<0.010	<0.010	<0.010	<0.010	0.1		
Total Iron (mg/L)	4.8	0.78	1.1	20			0.3
Total Lead (mg/L)	0.0062	<0.0050	<0.0050	0.056			
Total Magnesium (mg/L)	21	37	37	24			
Total Manganese (mg/L)	0.7	0.36	0.36	0.67			0.05
Total Potassium (mg/L)	2.5	3.4	3.4	3.5			
Total Selenium (mg/L)	<0.020	<0.020	<0.020	<0.020	0.05		
Total Silver (mg/L)	<0.010	<0.010	<0.010	<0.010	0.10		
Total Sodium (mg/L)	240	210	230	250			
Iron Related Bacteria (CFU/ml)	140,000	140,000	140,000	140,000			
Sulfate Reducing Bacteria (CFU/ml)	700,000	700,000	700,000	700,000			
Slime Forming Bacteria (CFU/ml)	350,000	350,000	350,000	350,000			

* - Lat/Long Datum WGS84

ug/l - micrograms per liter

ppm - parts per million

mg/L - milligrams per liter

CFU/ml - colony forming units per milliliter (approximate)

NA - Not Analyzed

Table 4
Appendix B
Groundwater Analytical Summary
Antero Resources - North Bank A-6 Response

LOCATION:
Robert L. Hoffmeister
29461 Hwy 6, Rifle, CO

Date Sampled	7/10/2006	8/17/2006	9/20/2006			
Sample ID	HOFF2	HOFF2	HOFF2			EPA National Secondary Drinking Water Standard
Time Sampled	1105	905	1120	EPA Drinking Water Standards	COGCC Standards	
Benzene (ug/l)	<0.50	<0.50	<0.50	5	5	
Toluene (ug/l)	<5.0	<5.0	<5.0	1,000	1,000	
Ethylbenzene (ug/L)	<0.50	<0.50	<0.50	680	680	
Xylenes (total) (ug/l)	<1.5	<1.5	<1.5	10,000	10,000	
Methyl Tertiary Butyl Ether (MTBE) (ug/L)	<1.0	<1.0	<1.0	N/A	N/A	
Methane (ppm)	<0.010	<0.010	<0.010	N/A	N/A	
Total Alkalinity (mg/L)	430	480	460			
Alkalinity Bicarbonate (mg/L)	430	480	460			
Alkalinity Carbonate (mg/L)	0.0	0.0	0.0			
Bromide (mg/L)	<1.0	<1.0	<1.0			
Chloride (mg/L)	140	150	140			
Fluoride (mg/L)	0.42	0.49	0.44	4		
Nitrate (mg/L)	0.25	0.27	0.27	10		
Nitrite (mg/L)	<0.10	<0.10	<0.10	1		
Sulfate (mg/L)	250	260	290			250
Ammonia Nitrogen (mg/L)	<0.050	0.2	0.1			
Sulfide (mg/L)	<0.050	<0.050	<0.050			
Total Dissolved Solids (TDS) (mg/L)	1100	1100	1100		< 1.25 x back ground	500
Total Arsenic (mg/L)	<0.0010	<0.0010	<0.0010	0.010		
Total Barium (mg/L)	0.029	0.028	0.029	2		
Total Boron (mg/L)	<0.20	<0.20	<0.20			
Total Cadmium (mg/L)	<0.0050	<0.0050	<0.0050	0.005		
Total Calcium (mg/L)	100	100	110			
Total Chromium (mg/L)	<0.010	<0.010	<0.010	0.1		
Total Iron (mg/L)	0.68	0.46	0.47			0.3
Total Lead (mg/L)	<0.0050	<0.0050	<0.0050			
Total Magnesium (mg/L)	50	49	52			
Total Manganese (mg/L)	0.37	0.39	0.41			0.05
Total Potassium (mg/L)	3.9	3.6	3.3			
Total Selenium (mg/L)	<0.020	<0.020	<0.020	0.05		
Total Silver (mg/L)	<0.010	<0.010	<0.010	0.10		
Total Sodium (mg/L)	210	200	210			
Iron Related Bacteria (CFU/ml)	2,300	2,300	9,000			
Sulfate Reducing Bacteria (CFU/ml)	200	5,000	5,000			
Slime Forming Bacteria (CFU/ml)	66,500	66,500	350,000			

* - Lat/Long Datum WGS84

ug/l - micrograms per liter

ppm - parts per million

mg/L - milligrams per liter

CFU/ml - colony forming units per milliliter (approximate)

NA - Not Analyzed

Appendix C

Analytical Results



ENVIRONMENTAL
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Est. 1970

Mr. Travis Marshall
Cordilleran Compliance - GJ, CO
826 21 1/2 Road

Grand Junction, CO 81505

Report Summary

Friday September 29, 2006

Report Number: L261896

Samples Received: 09/21/06

Client Project: EG06276

Description: North Bank

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Reviewed By:

Cheli Boucher
Cheli Boucher, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 09227, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910



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REPORT OF ANALYSIS

Mr. Travis Marshall
Cordilleran Compliance - GJ, CO
826 21 1/2 Road
Grand Junction, CO 81505

September 29, 2006

Date Received : September 21, 2006
Description : North Bank A-6

Sample ID : HOFF-1

Collected By : THM
Collection Date : 09/20/06 11:00

ESC Sample # : L261896-01

Site ID :

Project # : EG06276

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Methane	BDL	0.010	ppm	3810/RSK175	09/26/06	1
Bromide	BDL	1.0	mg/l	9056	09/21/06	1
Chloride	140	1.0	mg/l	9056	09/21/06	1
Fluoride	0.46	0.10	mg/l	9056	09/21/06	1
Nitrate	0.15	0.10	mg/l	9056	09/21/06	1
Nitrite	BDL	0.10	mg/l	9056	09/21/06	1
Sulfate	230	50.	mg/l	9056	09/27/06	10
Ammonia Nitrogen	0.20	0.10	mg/l	350.1	09/26/06	1
Sulfide	0.060	0.050	mg/l	376.2	09/25/06	1
Dissolved Solids	860	1.0	mg/l	160.1	09/27/06	1
Arsenic	0.014	0.0010	mg/l	6020	09/28/06	1
Barium	0.14	0.0050	mg/l	6010B	09/25/06	1
Boron	0.22	0.20	mg/l	6010B	09/25/06	1
Cadmium	BDL	0.0050	mg/l	6010B	09/25/06	1
Calcium	44.	0.50	mg/l	6010B	09/25/06	1
Chromium	BDL	0.010	mg/l	6010B	09/25/06	1
Iron	20.	0.10	mg/l	6010B	09/25/06	1
Lead	0.056	0.0050	mg/l	6010B	09/25/06	1
Magnesium	24.	0.10	mg/l	6010B	09/25/06	1
Manganese	0.67	0.010	mg/l	6010B	09/25/06	1
Potassium	3.5	0.50	mg/l	6010B	09/25/06	1
Selenium	BDL	0.020	mg/l	6010B	09/25/06	1
Silver	BDL	0.010	mg/l	6010B	09/25/06	1
Sodium	250	0.50	mg/l	6010B	09/25/06	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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REPORT OF ANALYSIS

Mr. Travis Marshall
Cordilleran Compliance - GJ, CO
826 21 1/2 Road
Grand Junction, CO 81505

September 29, 2006

Date Received : September 21, 2006
Description : North Bank A-6
Sample ID : HOFF-1
Collected By : THM
Collection Date : 09/20/06 11:00

ESC Sample # : L261896-62

Site ID :

Project # : EG06276

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Alkalinity	310	10.	mg/l	310.2	09/22/06	1
Alkalinity, Bicarbonate	310	10.	mg/l	310.2	09/22/06	1
Alkalinity, Carbonate	0.0	0.0	mg/l	310.2	09/22/06	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

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REPORT OF ANALYSIS

September 29, 2006

Mr. Travis Marshall
Cordilleran Compliance - GJ, CO
826 21 1/2 Road
Grand Junction, CO 81505

Date Received : September 21, 2006
Description : North Bank A-6
Sample ID : HOFF-1
Collected By : THM
Collection Date : 09/20/06 11:00

ESC Sample # : L261896-63

Site ID :

Project # : EG06276

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	09/22/06	1
Toluene	BDL	5.0	ug/l	8260B	09/22/06	1
Ethylbenzene	BDL	1.0	ug/l	8260B	09/22/06	1
Total Xylenes	BDL	3.0	ug/l	8260B	09/22/06	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	09/22/06	1
Surrogate Recovery						
Toluene-d8	98.6		% Rec.	8260B	09/22/06	1
Dibromofluoromethane	112.		% Rec.	8260B	09/22/06	1
4-Bromofluorobenzene	107.		% Rec.	8260B	09/22/06	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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REPORT OF ANALYSIS

September 29, 2006

Mr. Travis Marshall
Cordilleran Compliance - GJ, CO
826 21 1/2 Road
Grand Junction, CO 81505

ESC Sample # : L261896-64

Date Received : September 21, 2006
Description : North Bank A-6

Site ID :

Sample ID : HOFF-2

Project # : EG06276

Collected By : THM
Collection Date : 09/20/06 11:20

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Methane	BDL	0.010	ppm	3810/RSK175	09/26/06	1
Bromide	BDL	1.0	mg/l	9056	09/22/06	1
Chloride	140	1.0	mg/l	9056	09/22/06	1
Fluoride	0.44	0.10	mg/l	9056	09/22/06	1
Nitrate	0.27	0.10	mg/l	9056	09/22/06	1
Nitrite	BDL	0.10	mg/l	9056	09/22/06	1
Sulfate	290	50.	mg/l	9056	09/27/06	10
Ammonia Nitrogen	0.10	0.10	mg/l	350.1	09/26/06	1
Sulfide	BDL	0.050	mg/l	376.2	09/25/06	1
Dissolved Solids	1100	1.0	mg/l	160.1	09/27/06	1
Arsenic	BDL	0.0010	mg/l	6020	09/27/06	1
Barium	0.029	0.0050	mg/l	6010B	09/27/06	1
Boron	BDL	0.20	mg/l	6010B	09/27/06	1
Cadmium	BDL	0.0050	mg/l	6010B	09/27/06	1
Calcium	110	0.50	mg/l	6010B	09/27/06	1
Chromium	BDL	0.010	mg/l	6010B	09/27/06	1
Iron	0.47	0.10	mg/l	6010B	09/27/06	1
Lead	BDL	0.0050	mg/l	6010B	09/27/06	1
Magnesium	52.	0.10	mg/l	6010B	09/27/06	1
Manganese	0.41	0.010	mg/l	6010B	09/27/06	1
Potassium	3.3	0.50	mg/l	6010B	09/27/06	1
Selenium	BDL	0.020	mg/l	6010B	09/27/06	1
Silver	BDL	0.010	mg/l	6010B	09/27/06	1
Sodium	210	0.50	mg/l	6010B	09/27/06	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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REPORT OF ANALYSIS

Mr. Travis Marshall
Cordilleran Compliance - GJ, CO
826 21 1/2 Road
Grand Junction, CO 81505

September 29, 2006

Date Received : September 21, 2006
Description : North Bank A-6

Sample ID : HOFF-2

Collected By : THM
Collection Date : 09/20/06 11:20

ESC Sample # : L261896-65

Site ID :

Project # : EG06276

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Alkalinity	460	100	mg/l	310.2	09/22/06	10
Alkalinity, Bicarbonate	460	10.	mg/l	310.2	09/22/06	1
Alkalinity, Carbonate	0.0	0.0	mg/l	310.2	09/22/06	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

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826 21 1/2 Road
Grand Junction, CO 81505

September 29, 2006

Date Received : September 21, 2006
Description : North Bank A-6

Sample ID : HOFF-2

Collected By : THM
Collection Date : 09/20/06 11:20

ESC Sample # : L261896-66

Site ID :

Project # : EG06276

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	09/22/06	1
Toluene	BDL	5.0	ug/l	8260B	09/22/06	1
Ethylbenzene	BDL	1.0	ug/l	8260B	09/22/06	1
Total Xylenes	BDL	3.0	ug/l	8260B	09/22/06	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	09/22/06	1
Surrogate Recovery						
Toluene-d8	97.4		% Rec.	8260B	09/22/06	1
Dibromofluoromethane	113.		% Rec.	8260B	09/22/06	1
4-Bromofluorobenzene	107.		% Rec.	8260B	09/22/06	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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Mr. Travis Marshall
Cordilleran Compliance - GJ, CO
826 21 1/2 Road
Grand Junction, CO 81505

September 29, 2006

Date Received : September 21, 2006
Description : North Bank A-6
Sample ID : MCBR-1
Collected By : THM
Collection Date : 09/20/06 12:00

ESC Sample # : L261896-67

Site ID :

Project # : EG06276

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Methane	BDL	0.010	ppm	3810/RSK175	09/26/06	1
Bromide	BDL	1.0	mg/l	9056	09/22/06	1
Chloride	120	1.0	mg/l	9056	09/22/06	1
Fluoride	0.48	0.10	mg/l	9056	09/22/06	1
Nitrate	BDL	0.10	mg/l	9056	09/22/06	1
Nitrite	BDL	0.10	mg/l	9056	09/22/06	1
Sulfate	210	50.	mg/l	9056	09/27/06	10
Ammonia Nitrogen	0.17	0.10	mg/l	350.1	09/26/06	1
Sulfide	BDL	0.050	mg/l	376.2	09/25/06	1
Dissolved Solids	960	1.0	mg/l	160.1	09/27/06	1
Arsenic	BDL	0.0010	mg/l	6020	09/28/06	1
Barium	BDL	0.0050	mg/l	6010B	09/27/06	1
Boron	0.21	0.20	mg/l	6010B	09/27/06	1
Cadmium	BDL	0.0050	mg/l	6010B	09/27/06	1
Calcium	BDL	0.50	mg/l	6010B	09/27/06	1
Chromium	BDL	0.010	mg/l	6010B	09/27/06	1
Iron	BDL	0.10	mg/l	6010B	09/27/06	1
Lead	BDL	0.0050	mg/l	6010B	09/27/06	1
Magnesium	0.32	0.10	mg/l	6010B	09/27/06	1
Manganese	BDL	0.010	mg/l	6010B	09/27/06	1
Potassium	BDL	0.50	mg/l	6010B	09/27/06	1
Selenium	BDL	0.020	mg/l	6010B	09/27/06	1
Silver	BDL	0.010	mg/l	6010B	09/27/06	1
Sodium	390	0.50	mg/l	6010B	09/27/06	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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REPORT OF ANALYSIS

Mr. Travis Marshall
Cordilleran Compliance - GJ, CO
826 21 1/2 Road
Grand Junction, CO 81505

September 29, 2006

Date Received : September 21, 2006
Description : North Bank A-6

Sample ID : MCBR-1

Collected By : THM
Collection Date : 09/20/06 12:00

ESC Sample # : L261896-68

Site ID :

Project # : EG06276

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Alkalinity	430	100	mg/l	310.2	09/22/06	10
Alkalinity, Bicarbonate	430	10.	mg/l	310.2	09/22/06	1
Alkalinity, Carbonate	0.0	0.0	mg/l	310.2	09/22/06	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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REPORT OF ANALYSIS

September 29, 2006

Mr. Travis Marshall
Cordilleran Compliance - GJ, CO
826 21 1/2 Road
Grand Junction, CO 81505

Date Received : September 21, 2006
Description : North Bank A-6

Sample ID : MCBR-1

Collected By : THM
Collection Date : 09/20/06 12:00

ESC Sample # : L261896-69

Site ID :

Project # : EG06276

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	09/22/06	1
Toluene	BDL	5.0	ug/l	8260B	09/22/06	1
Ethylbenzene	BDL	1.0	ug/l	8260B	09/22/06	1
Total Xylenes	BDL	3.0	ug/l	8260B	09/22/06	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	09/22/06	1
Surrogate Recovery						
Toluene-d8	97.5		% Rec.	8260B	09/22/06	1
Dibromofluoromethane	114.		% Rec.	8260B	09/22/06	1
4-Bromofluorobenzene	109.		% Rec.	8260B	09/22/06	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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REPORT OF ANALYSIS

Mr. Travis Marshall
Cordilleran Compliance - GJ, CO
826 21 1/2 Road
Grand Junction, CO 81505

September 29, 2006

Date Received : September 21, 2006
Description : North Bank A-6

ESC Sample # : L261896-70

Sample ID : BALC-1

Site ID :

Collected By : THM
Collection Date : 09/20/06 12:35

Project # : EG06276

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Methane	BDL	0.010	ppm	3810/RSK175	09/26/06	1
Bromide	BDL	1.0	mg/l	9056	09/22/06	1
Chloride	120	1.0	mg/l	9056	09/22/06	1
Fluoride	0.54	0.10	mg/l	9056	09/22/06	1
Nitrate	0.43	0.10	mg/l	9056	09/22/06	1
Nitrite	BDL	0.10	mg/l	9056	09/22/06	1
Sulfate	180	5.0	mg/l	9056	09/22/06	1
Ammonia Nitrogen	BDL	0.10	mg/l	350.1	09/26/06	1
Sulfide	BDL	0.050	mg/l	376.2	09/25/06	1
Dissolved Solids	810	1.0	mg/l	160.1	09/27/06	1
Arsenic	0.0014	0.0010	mg/l	6020	09/28/06	1
Barium	0.038	0.0050	mg/l	6010B	09/27/06	1
Boron	BDL	0.20	mg/l	6010B	09/27/06	1
Cadmium	BDL	0.0050	mg/l	6010B	09/27/06	1
Calcium	80.	0.50	mg/l	6010B	09/27/06	1
Chromium	BDL	0.010	mg/l	6010B	09/27/06	1
Iron	BDL	0.10	mg/l	6010B	09/27/06	1
Lead	BDL	0.0050	mg/l	6010B	09/27/06	1
Magnesium	45.	0.10	mg/l	6010B	09/27/06	1
Manganese	0.31	0.010	mg/l	6010B	09/27/06	1
Potassium	2.6	0.50	mg/l	6010B	09/27/06	1
Selenium	BDL	0.020	mg/l	6010B	09/27/06	1
Silver	BDL	0.010	mg/l	6010B	09/27/06	1
Sodium	170	0.50	mg/l	6010B	09/27/06	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

The reported analytical results relate only to the sample submitted.

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REPORT OF ANALYSIS

Mr. Travis Marshall
Cordilleran Compliance - GJ, CO
826 21 1/2 Road
Grand Junction, CO 81505

September 29, 2006

Date Received : September 21, 2006
Description : North Bank A-6

Sample ID : BALC-1

Collected By : THM
Collection Date : 09/20/06 12:35

ESC Sample # : L261896-71

Site ID :

Project # : EG06276

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Alkalinity	330	100	mg/l	310.2	09/22/06	10
Alkalinity, Bicarbonate	330	10.	mg/l	310.2	09/22/06	1
Alkalinity, Carbonate	0.0	0.0	mg/l	310.2	09/22/06	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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REPORT OF ANALYSIS

September 29, 2006

Mr. Travis Marshall
Cordilleran Compliance - GJ, CO
826 21 1/2 Road
Grand Junction, CO 81505

ESC Sample # : L261896-72

Date Received : September 21, 2006
Description : North Bank A-6

Site ID :

Sample ID : BALC-1

Project # : EG06276

Collected By : THM
Collection Date : 09/20/06 12:35

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	09/22/06	1
Toluene	BDL	5.0	ug/l	8260B	09/22/06	1
Ethylbenzene	BDL	1.0	ug/l	8260B	09/22/06	1
Total Xylenes	BDL	3.0	ug/l	8260B	09/22/06	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	09/22/06	1
Surrogate Recovery						
Toluene-d8	97.9		% Rec.	8260B	09/22/06	1
Dibromofluoromethane	112.		% Rec.	8260B	09/22/06	1
4-Bromofluorobenzene	107.		% Rec.	8260B	09/22/06	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L261896-01	Sulfate	H
L261896-64	Sulfate	H
L261896-67	Sulfate	H
L261896-71	Alkalinity	J3

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
H	RIN(EPA)-Re-Analyzed: The indicated analytical results were generated from a reinjection of the same sample extract or aliquot.
J3	The associated batch QC was outside the established quality control range for precision.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

Control Limits				(AQ)	(SS)
2-Fluorophenol	31-119	Nitrobenzene-d5	43-118	Dibromofluoromethane	68-128 64-125
Phenol-d5	12-134	2-Fluorobiphenyl	45-128	Toluene-d8	76-115 69-118
2,4,6-Tribromophenol	51-141	Terphenyl-d14	43-137	4-Bromofluorobenzene	79-127 61-134

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.



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L261896

September 29, 2006

Analyte	Result	Laboratory Blank		Date Analyzed	Batch
		Units			
Bromide	< 1	mg/l	09/21/06 11:31	WG267955	
Chloride	< 1	mg/l	09/21/06 11:31	WG267955	
Fluoride	< .1	mg/l	09/21/06 11:31	WG267955	
Nitrate	< .1	mg/l	09/21/06 11:31	WG267955	
Nitrite	< .1	mg/l	09/21/06 11:31	WG267955	
Benzene	< .001	mg/l	09/21/06 21:51	WG268012	
Ethylbenzene	< .001	mg/l	09/21/06 21:51	WG268012	
Methyl tert-butyl ether	< .001	mg/l	09/21/06 21:51	WG268012	
Toluene	< .005	mg/l	09/21/06 21:51	WG268012	
Total Xylenes	< .003	mg/l	09/21/06 21:51	WG268012	
Bromide	< 1	mg/l	09/21/06 22:44	WG268018	
Chloride	< 1	mg/l	09/21/06 22:44	WG268018	
Fluoride	< .1	mg/l	09/21/06 22:44	WG268018	
Nitrate	< .1	mg/l	09/21/06 22:44	WG268018	
Nitrite	< .1	mg/l	09/21/06 22:44	WG268018	
Sulfate	< 5	mg/l	09/21/06 22:44	WG268018	
Alkalinity	< 10	mg/l	09/22/06 09:32	WG268019	
Barium	< .005	mg/l	09/24/06 23:47	WG268168	
Boron	< .2	mg/l	09/24/06 23:47	WG268168	
Cadmium	< .005	mg/l	09/24/06 23:47	WG268168	
Calcium	< .5	mg/l	09/24/06 23:47	WG268168	
Chromium	< .01	mg/l	09/24/06 23:47	WG268168	
Iron	< .1	mg/l	09/24/06 23:47	WG268168	
Lead	< .005	mg/l	09/24/06 23:47	WG268168	
Magnesium	< .1	mg/l	09/24/06 23:47	WG268168	
Manganese	< .01	mg/l	09/24/06 23:47	WG268168	
Potassium	< .5	mg/l	09/25/06 14:16	WG268168	
Selenium	< .02	mg/l	09/24/06 23:47	WG268168	
Silver	< .01	mg/l	09/24/06 23:47	WG268168	
Sodium	< .5	mg/l	09/25/06 14:16	WG268168	
Sulfide	< .05	mg/l	09/25/06 17:47	WG268253	
Ammonia Nitrogen	< .1	mg/l	09/26/06 09:53	WG268362	
Arsenic	< .001	mg/l	09/27/06 11:59	WG268414	
Dissolved Solids	< 1	mg/l	09/27/06 09:54	WG268454	
Dissolved Solids	< 1	mg/l	09/27/06 10:12	WG268456	
Barium	< .005	mg/l	09/27/06 08:34	WG268493	
Boron	< .2	mg/l	09/27/06 08:34	WG268493	
Cadmium	< .005	mg/l	09/27/06 08:34	WG268493	
Calcium	< .5	mg/l	09/27/06 08:34	WG268493	
Chromium	< .01	mg/l	09/27/06 08:34	WG268493	
Iron	< .1	mg/l	09/27/06 08:34	WG268493	
Lead	< .005	mg/l	09/27/06 08:34	WG268493	
Magnesium	< .1	mg/l	09/27/06 08:34	WG268493	
Manganese	< .01	mg/l	09/27/06 08:34	WG268493	
Potassium	< .5	mg/l	09/27/06 08:34	WG268493	
Selenium	< .02	mg/l	09/27/06 08:34	WG268493	
Silver	< .01	mg/l	09/27/06 08:34	WG268493	
Sodium	< .5	mg/l	09/27/06 08:34	WG268493	
Arsenic	< .001	mg/l	09/28/06 19:02	WG268549	



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Grand Junction, CO 81505

L261896

September 29, 2006

Laboratory Blank							
Analyte	Result	Units	Date Analyzed	Batch			
Sulfate	< 5	mg/l	09/26/06 22:37	WG268560			
Methane	< .01	ppm	09/26/06 00:00	WG268598			
Sulfate	< 5	mg/l	09/27/06 11:12	WG268774			
Duplicate							
Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Bromide	mg/l	0.00	0.00	0.00	20	L261765-01	WG267955
Bromide	mg/l	0.00	0.00	0.00	20	L261894-08	WG267955
Chloride	mg/l	0.00	0.00	0.00	20	L261765-01	WG267955
Chloride	mg/l	5.94	6.00	1.01	20	L261894-08	WG267955
Fluoride	mg/l	0.00	0.0240	BDL	20	L261765-01	WG267955
Fluoride	mg/l	0.649	0.386	50.8	20	L261894-08	WG267955
Nitrate	mg/l	0.150	0.144	4.08	20	L261765-01	WG267955
Nitrate	mg/l	0.306	0.300	1.98	20	L261894-08	WG267955
Nitrite	mg/l	0.00	0.00	0.00	20	L261765-01	WG267955
Nitrite	mg/l	0.00	0.00	0.00	20	L261894-08	WG267955
Bromide	mg/l	0.00	0.00	0.00	20	L261896-64	WG268018
Chloride	mg/l	147.	140.	4.88	20	L261896-64	WG268018
Fluoride	mg/l	0.467	0.440	5.95	20	L261896-64	WG268018
Nitrate	mg/l	0.285	0.270	5.41	20	L261896-64	WG268018
Nitrite	mg/l	0.00	0.00	0.00	20	L261896-64	WG268018
Alkalinity	mg/l	437.	330.	28.0	20	L261896-71	WG268019
Barium	mg/l	0.0630	0.0628	0.318	20	L262065-02	WG268168
Boron	mg/l	0.00	0.0770	BDL	20	L262065-02	WG268168
Cadmium	mg/l	0.00	0.00	0.00	20	L262065-02	WG268168
Calcium	mg/l	15.2	15.2	0.00	20	L262065-02	WG268168
Chromium	mg/l	0.00	0.00050	BDL	20	L262065-02	WG268168
Iron	mg/l	1.45	1.44	0.692	20	L262065-02	WG268168
Lead	mg/l	0.00540	0.00	BDL	20	L262065-02	WG268168
Magnesium	mg/l	6.61	0.00	BDL	20	L262065-02	WG268168
Manganese	mg/l	0.706	0.700	0.853	20	L262065-02	WG268168
Potassium	mg/l	3.67	0.00	BDL	20	L262065-02	WG268168
Selenium	mg/l	0.00	0.00440	BDL	20	L262065-02	WG268168
Silver	mg/l	0.00	0.00120	BDL	20	L262065-02	WG268168
Sodium	mg/l	15.5	0.00	BDL	20	L262065-02	WG268168
Sulfide	mg/l	0.00	0.00	0.00	20	L261896-70	WG268253
Sulfide	mg/l	0.00	0.00	0.00	20	L261435-01	WG268253
Ammonia Nitrogen	mg/l	0.122	0.100	19.7	20	L261896-64	WG268362
Arsenic	mg/l	0.00187	0.00190	1.59	20	L261717-08	WG268414
Dissolved Solids	mg/l	635.	620.	2.39	20	L262329-08	WG268454
Dissolved Solids	mg/l	810.	810.	0.00	20	L261896-70	WG268456
Barium	mg/l	0.309	0.307	0.649	20	L261910-19	WG268493
Boron	mg/l	0.00	0.121	BDL	20	L261910-19	WG268493
Cadmium	mg/l	0.00	0.00	0.00	20	L261910-19	WG268493
Calcium	mg/l	180.	180.	0.00	20	L261910-19	WG268493
Chromium	mg/l	0.00	0.00	0.00	20	L261910-19	WG268493
Iron	mg/l	1.10	0.992	10.3	20	L261910-19	WG268493



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September 29, 2006

Lead	mg/l	0.00	0.00	0.00	20	L261910-19	WG268493
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Analyte	Units	Duplicate		RPD	Limit	Ref Samp	Batch
		Result	Duplicate				
Magnesium	mg/l	19.4	19.2	1.04	20	L261910-19	WG268493
Manganese	mg/l	3.88	3.84	1.04	20	L261910-19	WG268493
Potassium	mg/l	2.00	1.98	1.01	20	L261910-19	WG268493
Selenium	mg/l	0.00	0.00	0.00	20	L261910-19	WG268493
Silver	mg/l	0.00	0.00	0.00	20	L261910-19	WG268493
Sodium	mg/l	78.9	76.2	3.48	20	L261910-19	WG268493
Arsenic	mg/l	0.00155	0.00137	12.3	20	L262405-01	WG268549
Sulfate	mg/l	0.00	0.00	0.00	20	L262382-01	WG268560
Sulfate	mg/l	0.00	1.83	BDL	20	L262382-11	WG268560
Sulfate	mg/l	264.	290.	9.39	20	L261896-64	WG268774
Sulfate	mg/l	0.00	3.44	BDL	20	L262356-24	WG268774

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Bromide	mg/l	40	39.2	98.0	90-110	WG267955
Chloride	mg/l	40	38.9	97.3	90-110	WG267955
Fluoride	mg/l	8	8.12	102.	90-110	WG267955
Nitrate	mg/l	8	8.13	102.	90-110	WG267955
Benzene	mg/l	.05	0.0487	97.4	70-130	WG268012
Ethylbenzene	mg/l	.05	0.0495	99.0	70-130	WG268012
Methyl tert-butyl ether	mg/l	.05	0.0502	100.	70-130	WG268012
Toluene	mg/l	.05	0.0447	89.4	70-130	WG268012
Total Xylenes	mg/l	.15	0.138	92.3	70-130	WG268012
Bromide	mg/l	40	38.3	95.8	90-110	WG268018
Chloride	mg/l	40	37.9	94.8	90-110	WG268018
Fluoride	mg/l	8	7.90	98.8	90-110	WG268018
Nitrate	mg/l	8	8.04	101.	90-110	WG268018
Sulfate	mg/l	40	38.0	95.0	90-110	WG268018
Alkalinity	mg/l	40	41.2	103.	85-115	WG268019
Barium	mg/l	1.13	1.14	101.	85-115	WG268168
Boron	mg/l	1.13	1.10	97.3	85-115	WG268168
Cadmium	mg/l	1.13	1.16	103.	85-115	WG268168
Calcium	mg/l	11.3	10.8	95.6	85-115	WG268168
Chromium	mg/l	1.13	1.16	103.	85-115	WG268168
Iron	mg/l	1.13	1.16	103.	85-115	WG268168
Lead	mg/l	1.13	1.15	102.	85-115	WG268168
Magnesium	mg/l	11.3	11.0	97.3	85-115	WG268168
Manganese	mg/l	1.13	1.12	99.1	85-115	WG268168
Potassium	mg/l	11.3	10.6	93.8	85-115	WG268168
Selenium	mg/l	1.13	1.08	95.6	85-115	WG268168
Silver	mg/l	1.13	1.09	96.5	85-115	WG268168
Sodium	mg/l	11.3	10.7	94.7	85-115	WG268168
Sulfide	mg/l	.5	0.537	107.	90-110	WG268253
Ammonia Nitrogen	mg/l	7.5	6.76	90.1	85-115	WG268362
Arsenic	mg/l	.0567	0.0610	108.	85-115	WG268414
Dissolved Solids	mg/l	650	642.	98.8	85-115	WG268454



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Dissolved Solids	mg/l	650	632.	97.2	85-115	WG268456
------------------	------	-----	------	------	--------	----------

Analyte	Laboratory Control Sample		% Rec	Limit	Batch
	Units	Known Val Result			
Barium	mg/l	1.13 1.16	103.	85-115	WG268493
Boron	mg/l	1.13 1.07	94.7	85-115	WG268493
Cadmium	mg/l	1.13 1.18	104.	85-115	WG268493
Calcium	mg/l	11.3 10.8	95.6	85-115	WG268493
Chromium	mg/l	1.13 1.12	99.1	85-115	WG268493
Iron	mg/l	1.13 1.20	106.	85-115	WG268493
Lead	mg/l	1.13 1.12	99.1	85-115	WG268493
Magnesium	mg/l	11.3 11.1	98.2	85-115	WG268493
Manganese	mg/l	1.13 1.14	101.	85-115	WG268493
Potassium	mg/l	11.3 11.2	99.1	85-115	WG268493
Selenium	mg/l	1.13 1.10	97.3	85-115	WG268493
Silver	mg/l	1.13 1.15	102.	85-115	WG268493
Sodium	mg/l	11.3 11.6	103.	85-115	WG268493
Arsenic	mg/l	.0567 0.0560	98.8	85-115	WG268549
Sulfate	mg/l	40 37.9	94.8	90-110	WG268560
Methane	ppm	1000 940.	94.0	56-121	WG268598
Sulfate	mg/l	40 38.0	95.0	90-110	WG268774

Analyte	Laboratory Control Sample Duplicate				Limit	%Rec	Batch
	Units	LCSD Res	Ref Res	RPD			
Bromide	mg/l	39.0	39.2	0.512	20	98	WG267955
Chloride	mg/l	38.7	38.9	0.515	20	97	WG267955
Fluoride	mg/l	8.15	8.12	0.369	20	102	WG267955
Nitrate	mg/l	8.13	8.13	0.00	20	102	WG267955
Benzene	mg/l	0.0468	0.0487	3.88	25	94	WG268012
Ethylbenzene	mg/l	0.0467	0.0495	5.94	25	93	WG268012
Methyl tert-butyl ether	mg/l	0.0485	0.0502	3.45	25	97	WG268012
Toluene	mg/l	0.0433	0.0447	3.14	25	87	WG268012
Total Xylenes	mg/l	0.131	0.138	5.59	25	87	WG268012
Bromide	mg/l	37.8	38.3	1.31	20	95	WG268018
Chloride	mg/l	37.3	37.9	1.60	20	93	WG268018
Fluoride	mg/l	7.80	7.90	1.27	20	98	WG268018
Nitrate	mg/l	7.94	8.04	1.25	20	99	WG268018
Sulfate	mg/l	37.4	38.0	1.59	20	94	WG268018
Alkalinity	mg/l	41.6	41.2	0.865	20	104	WG268019
Sulfide	mg/l	0.528	0.537	1.69	20	106	WG268253
Ammonia Nitrogen	mg/l	7.89	6.76	15.5	20	105	WG268362
Dissolved Solids	mg/l	672.	642.	4.57	20	103	WG268454
Dissolved Solids	mg/l	634.	632.	0.316	20	98	WG268456
Sulfate	mg/l	37.9	37.9	0.00	20	95	WG268560
Methane	ppm	960.	940.	2.11	15	96	WG268598
Sulfate	mg/l	38.1	38.0	0.263	20	95	WG268774

Matrix Spike



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Mr. Travis Marshall
826 21 1/2 Road

Grand Junction, CO 81505

Quality Assurance Report Level II

L261896

September 29, 2006

Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Bromide	mg/l	47.5	0.00	50	95.0	80-120	L261765-02	WG267955
Chloride	mg/l	48.6	0.00	50	97.2	80-120	L261765-02	WG267955
Fluoride	mg/l	4.97	0.0830	5	97.7	80-120	L261765-02	WG267955
Nitrate	mg/l	4.98	0.132	5	97.0	80-120	L261765-02	WG267955
Nitrite	mg/l	4.74	0.00	5	94.8	80-120	L261765-02	WG267955
Bromide	mg/l	51.0	0.00	50	102.	80-120	L261896-67	WG268018
Chloride	mg/l	168.	120.	50	96.0	80-120	L261896-67	WG268018
Fluoride	mg/l	5.54	0.480	5	101.	80-120	L261896-67	WG268018
Nitrate	mg/l	5.26	0.00	5	105.	80-120	L261896-67	WG268018
Nitrite	mg/l	5.48	0.00	5	110.	80-120	L261896-67	WG268018
Alkalinity	mg/l	1160	960.	200	98.9	80-120	L261666-01	WG268019
Barium	mg/l	1.20	0.0628	1.13	101.	75-125	L262065-02	WG268168
Boron	mg/l	1.15	0.0770	1.13	95.0	75-125	L262065-02	WG268168
Cadmium	mg/l	1.16	0.00	1.13	103.	75-125	L262065-02	WG268168
Calcium	mg/l	26.1	15.2	11.3	96.5	75-125	L262065-02	WG268168
Chromium	mg/l	1.15	0.0005	1.13	102.	75-125	L262065-02	WG268168
Iron	mg/l	2.58	1.44	1.13	101.	75-125	L262065-02	WG268168
Lead	mg/l	1.15	0.00	1.13	102.	75-125	L262065-02	WG268168
Magnesium	mg/l	17.6	0.00	11.3	156.	75-125	L262065-02	WG268168
Manganese	mg/l	1.81	0.700	1.13	98.2	75-125	L262065-02	WG268168
Potassium	mg/l	14.2	0.00	11.3	126.	75-125	L262065-02	WG268168
Selenium	mg/l	1.08	0.0044	1.13	95.2	75-125	L262065-02	WG268168
Silver	mg/l	0.0809	0.0012	1.13	7.0	75-125	L262065-02	WG268168
Sodium	mg/l	26.2	0.00	11.3	232.	75-125	L262065-02	WG268168
Sulfide	mg/l	0.959	0.00	1	95.9	90-110	L261671-06	WG268253
Ammonia Nitrogen	mg/l	5.60	0.390	5	104.	80-120	L261953-01	WG268362
Arsenic	mg/l	0.0598	0.0019	.0567	102.	75-125	L261717-08	WG268414
Barium	mg/l	1.44	0.307	1.13	100.	75-125	L261910-19	WG268493
Boron	mg/l	1.23	0.121	1.13	98.1	75-125	L261910-19	WG268493
Cadmium	mg/l	1.14	0.00	1.13	101.	75-125	L261910-19	WG268493
Calcium	mg/l	198.	180.	11.3	159.	75-125	L261910-19	WG268493
Chromium	mg/l	1.12	0.00	1.13	99.1	75-125	L261910-19	WG268493
Iron	mg/l	2.33	0.992	1.13	118.	75-125	L261910-19	WG268493
Lead	mg/l	1.10	0.00	1.13	97.3	75-125	L261910-19	WG268493
Magnesium	mg/l	30.6	19.2	11.3	101.	75-125	L261910-19	WG268493
Manganese	mg/l	5.13	3.84	1.13	114.	75-125	L261910-19	WG268493
Potassium	mg/l	13.7	1.98	11.3	104.	75-125	L261910-19	WG268493
Selenium	mg/l	1.08	0.00	1.13	95.6	75-125	L261910-19	WG268493
Silver	mg/l	0.0391	0.00	1.13	3.4	75-125	L261910-19	WG268493
Sodium	mg/l	90.2	76.2	11.3	124.	75-125	L261910-19	WG268493
Arsenic	mg/l	0.0578	0.0013	.0567	99.5	75-125	L262405-01	WG268549
Methane	ppm	1900	0.0330	1000	190.	50-150	L261719-04	WG268598
Methane	ppm	1900	0.0330	1000	190.	50-150	L261719-04	WG268598
Sulfate	mg/l	684.	210.	50	94.8	80-120	L261896-67	WG268774
Sulfate	mg/l	56.0	6.62	50	98.8	80-120	L262356-22	WG268774

Matrix Spike Duplicate								
Analyte	Units	MSD Res	Ref Res	RPD	Limit	%Rec	Ref Samp	Batch
Bromide	mg/l	48.2	47.5	1.46	20	96.4	L261765-02	WG267955
Chloride	mg/l	49.3	48.6	1.43	20	98.6	L261765-02	WG267955
Fluoride	mg/l	5.05	4.97	1.60	20	99.3	L261765-02	WG267955



ENVIRONMENTAL SCIENCE CORP.

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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Cordilleran Compliance - GJ, CO
Mr. Travis Marshall
826 21 1/2 Road

Quality Assurance Report Level II

Grand Junction, CO 81505

L261896

September 29, 2006

Nitrate	mg/l	5.04	4.98	1.20	20	98.2	L261765-02	WG267955
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Analyte		Matrix Spike Duplicate			RPD	Limit	%Rec	Ref Samp	Batch
		Units	MSD	Res					
Nitrite	mg/l	4.80	4.74	1.26	20	96.0	L261765-02	WG267955	
Bromide	mg/l	47.1	51.0	7.95	20	94.2	L261896-67	WG268018	
Chloride	mg/l	165.	168.	1.80	20	90.0	L261896-67	WG268018	
Fluoride	mg/l	5.20	5.54	6.33	20	94.4	L261896-67	WG268018	
Nitrate	mg/l	4.87	5.26	7.70	20	97.4	L261896-67	WG268018	
Nitrite	mg/l	5.10	5.48	7.18	20	102.	L261896-67	WG268018	
Alkalinity	mg/l	1100	1160	4.89	20	71.3	L261666-01	WG268019	
Barium	mg/l	1.18	1.20	1.68	20	98.9	L262065-02	WG268168	
Boron	mg/l	1.14	1.15	0.873	20	94.1	L262065-02	WG268168	
Cadmium	mg/l	1.14	1.16	1.74	20	101.	L262065-02	WG268168	
Calcium	mg/l	25.9	26.1	0.769	20	94.7	L262065-02	WG268168	
Chromium	mg/l	1.16	1.15	0.866	20	103.	L262065-02	WG268168	
Iron	mg/l	2.56	2.58	0.778	20	99.1	L262065-02	WG268168	
Lead	mg/l	1.15	1.15	0.00	20	102.	L262065-02	WG268168	
Magnesium	mg/l	17.4	17.6	1.14	20	154.	L262065-02	WG268168	
Manganese	mg/l	1.80	1.81	0.554	20	97.3	L262065-02	WG268168	
Potassium	mg/l	14.2	14.2	0.00	20	126.	L262065-02	WG268168	
Selenium	mg/l	1.08	1.08	0.00	20	95.2	L262065-02	WG268168	
Silver	mg/l	0.0901	0.0809	10.8	20	7.87	L262065-02	WG268168	
Sodium	mg/l	26.2	26.2	0.00	20	232.	L262065-02	WG268168	
Sulfide	mg/l	1.03	0.959	7.14	20	103.	L261671-06	WG268253	
Ammonia Nitrogen	mg/l	5.90	5.60	5.31	20	110.	L261953-01	WG268362	
Arsenic	mg/l	0.0610	0.0598	1.99	20	104.	L261717-08	WG268414	
Barium	mg/l	1.44	1.44	0.00	20	100.	L261910-19	WG268493	
Boron	mg/l	1.25	1.23	1.61	20	99.9	L261910-19	WG268493	
Cadmium	mg/l	1.13	1.14	0.881	20	100.	L261910-19	WG268493	
Calcium	mg/l	197.	198.	0.506	20	150.	L261910-19	WG268493	
Chromium	mg/l	1.11	1.12	0.897	20	98.2	L261910-19	WG268493	
Iron	mg/l	2.30	2.33	1.30	20	116.	L261910-19	WG268493	
Lead	mg/l	1.09	1.10	0.913	20	96.5	L261910-19	WG268493	
Magnesium	mg/l	30.6	30.6	0.00	20	101.	L261910-19	WG268493	
Manganese	mg/l	5.10	5.13	0.587	20	112.	L261910-19	WG268493	
Potassium	mg/l	13.3	13.7	2.96	20	100.	L261910-19	WG268493	
Selenium	mg/l	1.07	1.08	0.930	20	94.7	L261910-19	WG268493	
Silver	mg/l	0.157	0.0391	120.	20	13.9	L261910-19	WG268493	
Sodium	mg/l	90.8	90.2	0.663	20	129.	L261910-19	WG268493	
Arsenic	mg/l	0.0590	0.0578	2.05	20	102.	L262405-01	WG268549	
Methane	ppm	2000	1900	5.13	25	200.	L261719-04	WG268598	
Methane	ppm	2000	1900	5.13	25	200.	L261719-04	WG268598	
Sulfate	mg/l	662.	684.	3.27	20	90.4	L261896-67	WG268774	
Sulfate	mg/l	50.3	56.0	10.7	20	87.4	L262356-22	WG268774	

Batch number /Run number / Sample number cross reference

WG268012: R290421: L261896-63 66 69 72
WG268019: R290490: L261896-62 65 68 71
WG268168: R290765: L261896-01
WG268253: R290779: L261896-01 64 67 70



ENVIRONMENTAL
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Quality Assurance Report
Level II

Grand Junction, CO 81505

September 29, 2006

L261896

WG267955: R290837: L261896-01
WG268362: R290903: L261896-01 64 67 70
WG268018: R290957: L261896-64 67 70
WG268456: R290984: L261896-64 67 70
WG268454: R290986: L261896-01
WG268493: R290993: L261896-64 67 70
WG268598: R291003: L261896-01 64 67 70
WG268560: R291051: L261896-01
WG268414: R291052: L261896-64 67 70
WG268774: R291236: L261896-64 67
WG268549: R291272: L261896-01

* * Calculations are performed prior to rounding of reported values .



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Level II

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September 29, 2006

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

JOHN C. KEPHART & CO.
GRAND JUNCTION LABORATORIES

435 NORTH AVENUE ♦ PHONE: (970) 242-7618 ♦ FAX: (970) 243-7235 ♦ GRAND JUNCTION, COLORADO 81501

— ANALYTICAL REPORT —

Received from: Cordilleran Compliance
Travis Marshall
826 - 21-1/2 Road
Grand Jct., CO 81505
(970)263-7800, FAX 263-7456
3005 water

PO# E06276
Customer No. _____ Laboratory No. _____ Sample _____

Date Received 9/20/06 Date Reported 10/3/06

Lab number: 3005
Sample ID: HOFF1 9/20/06 1100 by THM

Iron Related Bacteria present, approximately 140,000 CFU/ml

Sulfate Reducing Bacteria present, approximately 700,000 CFU/ml,
combination of aerobic and anaerobic
Sulfate Reducing Bacteria

Slime Forming Bacteria present, approximately 350,000 CFU/ml

Director: B. Bauer

JOHN C. KEPHART & CO.
GRAND JUNCTION LABORATORIES

435 NORTH AVENUE ♦ PHONE: (970) 242-7618 ♦ FAX: (970) 243-7235 ♦ GRAND JUNCTION, COLORADO 81501

— ANALYTICAL REPORT —

Received from:

Cordilleran Compliance
Travis Marshall
826 - 21-1/2 Road
Grand Jct., CO 81505
(970)263-7800, FAX 263-7456
3006

water

PO# E06276

Customer No. _____ Laboratory No. _____ Sample _____

Date Received 9/20/06 Date Reported 10/3/06

Lab number: 3006
Sample ID: HOFF2 9/20/06 1120 by THM

Iron Related Bacteria	present, approximately 9,000 CFU/ml
Sulfate Reducing Bacteria	present, approximately 5,000 CFU/ml, combination of aerobic and anaerobic Sulfate Reducing Bacteria
Slime Forming Bacteria	present, approximately 350,000 CFU/ml

Director: B. Bauer

JOHN C. KEPHART & CO.
GRAND JUNCTION LABORATORIES

435 NORTH AVENUE ♦ PHONE: (970) 242-7618 ♦ FAX: (970) 243-7235 ♦ GRAND JUNCTION, COLORADO 81501

— ANALYTICAL REPORT —

Received from:

Cordilleran Compliance
Travis Marshall
826 - 21-1/2 Road
Grand Jct., CO 81505
(970)263-7800, FAX 263-7456
3007

water

PO# E06276

Customer No. _____ Laboratory No. _____ Sample _____

Date Received 9/20/06 Date Reported 10/3/06

Lab number: 3007
Sample ID: MCBR1 9/20/06 1200 by THM

Iron Related Bacteria	present, approximately 500 CFU/ml
Sulfate Reducing Bacteria	present, approximately 1,200 CFU/ml, dense anaerobic Sulfate Reducing Bacteria consortium
Slime Forming Bacteria	present, approximately 66,500 CFU/ml

Director: B. Bauer

JOHN C. KEPHART & CO.
GRAND JUNCTION LABORATORIES

435 NORTH AVENUE ♦ PHONE: (970) 242-7618 ♦ FAX: (970) 243-7235 ♦ GRAND JUNCTION, COLORADO 81501

— ANALYTICAL REPORT —

Received from: Cordilleran Compliance
Travis Marshall
826 - 21-1/2 Road
Grand Jct., CO 81505
(970)263-7800, FAX 263-7456
PO# E06276 3008 water

Customer No. _____ Laboratory No. _____ Sample _____

Date Received 9/20/06 Date Reported 10/3/06

Lab number: 3008
Sample ID: BALC1 9/20/06 1235 by THM

Iron Related Bacteria	absent
Sulfate Reducing Bacteria	absent
Slime Forming Bacteria	present, approximately 66,500 CFU/ml

Director: B. Bauer

JOHN C. KEPHART & CO.

GRAND JUNCTION LABORATORIES

435 NORTH AVENUE • PHONE: (970) 242-7818 • FAX: 243-7235 • GRAND JUNCTION, COLORADO 81501

242-7618

CHAIN OF CUSTODY FORM

Cordilleran Compliance, 826 - 21 - 1/2 Road, Grand Junction, CO 81505

Phone: 263-7800 FAX: 263-7456

Contact: TRAVIS MARSHALL

Special requests:

() FAX when done () CALL when done

() OTHER _____

USE THIS AREA FOR ONE SAMPLE ONLY:

PO# E06276 Project Name _____

Sample Name HOPM1

Date Sampled 9/20/06 Time Sampled 1100 Sampler THM

Types of bottles, preservatives: X sterile, refrigerated to 4 deg C X

Analysis Required: BART tests: Iron Related Bacteria, Sulfate Reducing Bacteria, Slime Forming Bacteria

USE THIS AREA FOR ONE SAMPLE ONLY:

PO# E06276 Project Name _____

Sample Name HOPF2

Date Sampled 9/20/06 Time Sampled 1120 Sampler THM

Types of bottles, preservatives: X sterile, refrigerated to 4 deg C X

Analysis Required: BART tests: Iron Related Bacteria, Sulfate Reducing Bacteria, Slime Forming Bacteria

USE THIS AREA FOR ONE SAMPLE ONLY:

PO# E06276 Project Name _____

Sample Name MLBR1

Date Sampled 9/20/06 Time Sampled 1200 Sampler THM

Types of bottles, preservatives: X sterile, refrigerated to 4 deg C X

Analysis Required: BART tests: Iron Related Bacteria, Sulfate Reducing Bacteria, Slime Forming Bacteria

USE THIS AREA FOR ONE SAMPLE ONLY:

PO# E06276 Project Name _____

Sample Name BALL1

Date Sampled 9/20/06 Time Sampled 1235 Sampler THM

Types of bottles, preservatives: X sterile, refrigerated to 4 deg C X

Analysis Required: BART tests: Iron Related Bacteria, Sulfate Reducing Bacteria, Slime Forming Bacteria

RELINQUISHED BY (SIGNATURE OF SAMPLER) [Signature]

TO (SIGNATURE) [Signature] DATE, TIME 9/20/06 4:00 PM

RELINQUISHED BY (SIGNATURE) _____

TO (SIGNATURE) _____ DATE, TIME _____

RELINQUISHED BY (SIGNATURE) _____

TO (SIGNATURE) _____ DATE, TIME _____

NOTES: Signature affirms representation of the organization or person requesting the analysis, and agreement to the TERMS AND CONDITIONS.

Special handling may require additional charges.

ATTACHMENT 2



18-Jan-2013

Mark Mumby
HRL Compliance Solutions
2385 F 1/2 Road
Grand Junction, CO 81505

Re: **Antero North Bank A Confirmation 1/10/13**

Work Order: **1301397**

Dear Mark,

ALS Environmental received 5 samples on 15-Jan-2013 09:30 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 31.

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

Sincerely,

A handwritten signature in black ink that reads "Ann Preston".

Electronically approved by: Ann Preston

Ann Preston
Project Manager



Certificate No: MN331938

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185

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Environmental 

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RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions
Project: Antero North Bank A Confirmation 1/10/13
Work Order: 1301397

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1301397-01	Sample Point 1	Soil		1/10/2013 10:20	1/15/2013 09:30	<input type="checkbox"/>
1301397-02	Sample Point 2	Soil		1/10/2013 10:40	1/15/2013 09:30	<input type="checkbox"/>
1301397-03	BKGD 1	Soil		1/10/2013 11:00	1/15/2013 09:30	<input type="checkbox"/>
1301397-04	BKGD 2	Soil		1/10/2013 11:05	1/15/2013 09:30	<input type="checkbox"/>
1301397-05	BKGD 3	Soil		1/10/2013 11:10	1/15/2013 09:30	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: Antero North Bank A Confirmation 1/10/13
Work Order: 1301397

Case Narrative

Batch 45932 MS/MSD data for Metals is not related to this project's samples. No data requires qualification.

Batches R115090 and R115155 Duplicate data for pH is not related to this project's samples. No data requires qualification.

Client: HRL Compliance Solutions
Project: Antero North Bank A Confirmation 1/10/13
WorkOrder: 1301397

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
SQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
SD	Serial Dilution
TDL	Target Detection Limit

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight
mhos/cm @25°	
none	
s.u.	Standard Units

ALS Group USA, Corp

Date: 18-Jan-13

Client: HRL Compliance Solutions
Project: Antero North Bank A Confirmation 1/10/13
Sample ID: Sample Point 1
Collection Date: 1/10/2013 10:20 AM

Work Order: 1301397
Lab ID: 1301397-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	69		SW8015M		Prep Date: 1/16/2013	Analyst: CW
			4.4	mg/Kg-dry	1	1/17/2013 11:34 AM
<i>Surr: 4-Terphenyl-d14</i>	<i>50.1</i>		<i>39-115</i>	<i>%REC</i>	<i>1</i>	1/17/2013 11:34 AM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		SW8015			Analyst: CW
			2.7	mg/Kg-dry	50	1/15/2013 03:17 PM
<i>Surr: Toluene-d8</i>	<i>107</i>		<i>50-150</i>	<i>%REC</i>	<i>50</i>	1/15/2013 03:17 PM
MERCURY BY CVAA						
Mercury	ND		SW7471		Prep Date: 1/17/2013	Analyst: LR
			0.018	mg/Kg-dry	1	1/17/2013 03:08 PM
METALS BY ICP-MS						
Arsenic	0.93		SW6020A		Prep Date: 1/16/2013	Analyst: RH
			0.75	mg/Kg-dry	2	1/17/2013 02:48 PM
Barium	530		7.5	mg/Kg-dry	20	1/17/2013 02:42 PM
Cadmium	ND		0.30	mg/Kg-dry	2	1/17/2013 02:48 PM
Chromium	6.1		0.75	mg/Kg-dry	2	1/17/2013 02:48 PM
Copper	5.9		0.75	mg/Kg-dry	2	1/17/2013 02:48 PM
Lead	5.4		0.75	mg/Kg-dry	2	1/17/2013 02:48 PM
Nickel	6.2		0.75	mg/Kg-dry	2	1/17/2013 02:48 PM
Selenium	ND		0.75	mg/Kg-dry	2	1/17/2013 02:48 PM
Silver	ND		0.75	mg/Kg-dry	2	1/17/2013 02:48 PM
Zinc	25		1.5	mg/Kg-dry	2	1/17/2013 02:48 PM
SOLUBLE CATIONS FOR SAR						
Calcium	51		SW6020A		Prep Date: 1/17/2013	Analyst: RH
			5.3	mg/L-dry	10	1/17/2013 07:00 PM
Magnesium	11		2.1	mg/L-dry	10	1/17/2013 07:00 PM
Sodium	110		2.1	mg/L-dry	10	1/17/2013 07:00 PM
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	3.7		USDA H60 METHO		Prep Date: 1/17/2013	Analyst: RH
			0.010	none	1	1/18/2013
SEMI-VOLATILE ORGANIC COMPOUNDS						
Acenaphthene	ND		SW8270		Prep Date: 1/16/2013	Analyst: RM
			16	µg/Kg-dry	1	1/16/2013 07:11 PM
Acenaphthylene	ND		31	µg/Kg-dry	1	1/16/2013 07:11 PM
Anthracene	ND		16	µg/Kg-dry	1	1/16/2013 07:11 PM
Benzo(a)anthracene	ND		18	µg/Kg-dry	1	1/16/2013 07:11 PM
Benzo(a)pyrene	ND		18	µg/Kg-dry	1	1/16/2013 07:11 PM
Benzo(b)fluoranthene	ND		19	µg/Kg-dry	1	1/16/2013 07:11 PM
Benzo(g,h,i)perylene	ND		29	µg/Kg-dry	1	1/16/2013 07:11 PM
Benzo(k)fluoranthene	ND		19	µg/Kg-dry	1	1/16/2013 07:11 PM
Chrysene	ND		16	µg/Kg-dry	1	1/16/2013 07:11 PM
Dibenzo(a,h)anthracene	ND		19	µg/Kg-dry	1	1/16/2013 07:11 PM
Fluoranthene	ND		16	µg/Kg-dry	1	1/16/2013 07:11 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 18-Jan-13

Client: HRL Compliance Solutions
Project: Antero North Bank A Confirmation 1/10/13
Sample ID: Sample Point 1
Collection Date: 1/10/2013 10:20 AM

Work Order: 1301397
Lab ID: 1301397-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		16	µg/Kg-dry	1	1/16/2013 07:11 PM
Indeno(1,2,3-cd)pyrene	ND		21	µg/Kg-dry	1	1/16/2013 07:11 PM
Naphthalene	ND		16	µg/Kg-dry	1	1/16/2013 07:11 PM
Pyrene	ND		16	µg/Kg-dry	1	1/16/2013 07:11 PM
Surr: 2-Fluorobiphenyl	75.1		12-100	%REC	1	1/16/2013 07:11 PM
Surr: 4-Terphenyl-d14	106		25-137	%REC	1	1/16/2013 07:11 PM
Surr: Nitrobenzene-d5	87.6		37-107	%REC	1	1/16/2013 07:11 PM
VOLATILE ORGANIC COMPOUNDS			SW8260		Prep Date: 1/15/2013	Analyst: AK
Benzene	ND		32	µg/Kg-dry	1	1/16/2013 03:57 AM
Ethylbenzene	ND		32	µg/Kg-dry	1	1/16/2013 03:57 AM
m,p-Xylene	ND		64	µg/Kg-dry	1	1/16/2013 03:57 AM
o-Xylene	ND		32	µg/Kg-dry	1	1/16/2013 03:57 AM
Toluene	ND		32	µg/Kg-dry	1	1/16/2013 03:57 AM
Xylenes, Total	ND		96	µg/Kg-dry	1	1/16/2013 03:57 AM
Surr: 1,2-Dichloroethane-d4	85.0		70-130	%REC	1	1/16/2013 03:57 AM
Surr: 4-Bromofluorobenzene	109		70-130	%REC	1	1/16/2013 03:57 AM
Surr: Dibromofluoromethane	88.7		70-130	%REC	1	1/16/2013 03:57 AM
Surr: Toluene-d8	97.9		70-130	%REC	1	1/16/2013 03:57 AM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep Date: 1/17/2013	Analyst: JB
Electrical Conductivity @ Saturation	0.88		0.050	mmhos/cm @25	10	1/17/2013 04:00 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: MB
Chromium, Trivalent	6.1		0.53	mg/Kg-dry	1	1/17/2013 04:45 PM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 1/15/2013	Analyst: MB
Chromium, Hexavalent	ND		0.53	mg/Kg-dry	1	1/16/2013 04:00 PM
MOISTURE			A2540 G			Analyst: BAS
Moisture	6.1		0.050	% of sample	1	1/15/2013 01:00 PM
PH			SW9045D			Analyst: JB
pH	9.33			s.u.	1	1/15/2013 10:45 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 18-Jan-13

Client: HRL Compliance Solutions
Project: Antero North Bank A Confirmation 1/10/13
Sample ID: Sample Point 2
Collection Date: 1/10/2013 10:40 AM

Work Order: 1301397
Lab ID: 1301397-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	40		SW8015M		Prep Date: 1/16/2013	Analyst: CW
			4.4	mg/Kg-dry	1	1/17/2013 11:59 AM
Surr: 4-Terphenyl-d14	50.9		39-115	%REC	1	1/17/2013 11:59 AM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		SW8015			Analyst: CW
			2.7	mg/Kg-dry	50	1/15/2013 03:44 PM
Surr: Toluene-d8	109		50-150	%REC	50	1/15/2013 03:44 PM
MERCURY BY CVAA						
Mercury	ND		SW7471		Prep Date: 1/17/2013	Analyst: LR
			0.017	mg/Kg-dry	1	1/17/2013 03:10 PM
METALS BY ICP-MS						
Arsenic	1.5		SW6020A		Prep Date: 1/16/2013	Analyst: RH
			0.60	mg/Kg-dry	2	1/17/2013 03:00 PM
Barium	740		6.0	mg/Kg-dry	20	1/17/2013 02:54 PM
Cadmium	ND		0.24	mg/Kg-dry	2	1/17/2013 03:00 PM
Chromium	7.0		0.60	mg/Kg-dry	2	1/17/2013 03:00 PM
Copper	8.8		0.60	mg/Kg-dry	2	1/17/2013 03:00 PM
Lead	5.9		0.60	mg/Kg-dry	2	1/17/2013 03:00 PM
Nickel	6.7		0.60	mg/Kg-dry	2	1/17/2013 03:00 PM
Selenium	ND		0.60	mg/Kg-dry	2	1/17/2013 03:00 PM
Silver	ND		0.60	mg/Kg-dry	2	1/17/2013 03:00 PM
Zinc	32		1.2	mg/Kg-dry	2	1/17/2013 03:00 PM
SOLUBLE CATIONS FOR SAR						
Calcium	460		SW6020A		Prep Date: 1/17/2013	Analyst: RH
			5.4	mg/L-dry	10	1/17/2013 07:05 PM
Magnesium	58		2.2	mg/L-dry	10	1/17/2013 07:05 PM
Sodium	790		2.2	mg/L-dry	10	1/17/2013 07:05 PM
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	8.9		USDA H60 METHO		Prep Date: 1/17/2013	Analyst: RH
			0.010	none	1	1/18/2013
SEMI-VOLATILE ORGANIC COMPOUNDS						
Acenaphthene	ND		SW8270		Prep Date: 1/16/2013	Analyst: RM
			16	µg/Kg-dry	1	1/16/2013 07:37 PM
Acenaphthylene	ND		32	µg/Kg-dry	1	1/16/2013 07:37 PM
Anthracene	ND		16	µg/Kg-dry	1	1/16/2013 07:37 PM
Benzo(a)anthracene	ND		18	µg/Kg-dry	1	1/16/2013 07:37 PM
Benzo(a)pyrene	ND		18	µg/Kg-dry	1	1/16/2013 07:37 PM
Benzo(b)fluoranthene	ND		19	µg/Kg-dry	1	1/16/2013 07:37 PM
Benzo(g,h,i)perylene	ND		30	µg/Kg-dry	1	1/16/2013 07:37 PM
Benzo(k)fluoranthene	ND		19	µg/Kg-dry	1	1/16/2013 07:37 PM
Chrysene	ND		16	µg/Kg-dry	1	1/16/2013 07:37 PM
Dibenzo(a,h)anthracene	ND		19	µg/Kg-dry	1	1/16/2013 07:37 PM
Fluoranthene	ND		16	µg/Kg-dry	1	1/16/2013 07:37 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 18-Jan-13

Client: HRL Compliance Solutions
Project: Antero North Bank A Confirmation 1/10/13
Sample ID: Sample Point 2
Collection Date: 1/10/2013 10:40 AM

Work Order: 1301397
Lab ID: 1301397-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		16	µg/Kg-dry	1	1/16/2013 07:37 PM
Indeno(1,2,3-cd)pyrene	ND		21	µg/Kg-dry	1	1/16/2013 07:37 PM
Naphthalene	ND		16	µg/Kg-dry	1	1/16/2013 07:37 PM
Pyrene	ND		16	µg/Kg-dry	1	1/16/2013 07:37 PM
Surr: 2-Fluorobiphenyl	76.1		12-100	%REC	1	1/16/2013 07:37 PM
Surr: 4-Terphenyl-d14	109		25-137	%REC	1	1/16/2013 07:37 PM
Surr: Nitrobenzene-d5	86.9		37-107	%REC	1	1/16/2013 07:37 PM
VOLATILE ORGANIC COMPOUNDS			SW8260		Prep Date: 1/15/2013	Analyst: BG
Benzene	ND		33	µg/Kg-dry	1	1/16/2013 08:42 PM
Ethylbenzene	ND		33	µg/Kg-dry	1	1/16/2013 08:42 PM
m,p-Xylene	ND		65	µg/Kg-dry	1	1/16/2013 08:42 PM
o-Xylene	ND		33	µg/Kg-dry	1	1/16/2013 08:42 PM
Toluene	ND		33	µg/Kg-dry	1	1/16/2013 08:42 PM
Xylenes, Total	ND		98	µg/Kg-dry	1	1/16/2013 08:42 PM
Surr: 1,2-Dichloroethane-d4	98.2		70-130	%REC	1	1/16/2013 08:42 PM
Surr: 4-Bromofluorobenzene	98.0		70-130	%REC	1	1/16/2013 08:42 PM
Surr: Dibromofluoromethane	94.2		70-130	%REC	1	1/16/2013 08:42 PM
Surr: Toluene-d8	97.0		70-130	%REC	1	1/16/2013 08:42 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep Date: 1/17/2013	Analyst: JB
Electrical Conductivity @ Saturation	6.9		0.050	mmhos/cm @25	10	1/17/2013 04:00 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: MB
Chromium, Trivalent	7.0		0.54	mg/Kg-dry	1	1/17/2013 04:45 PM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 1/15/2013	Analyst: MB
Chromium, Hexavalent	ND		0.54	mg/Kg-dry	1	1/16/2013 04:00 PM
MOISTURE			A2540 G			Analyst: BAS
Moisture	7.8		0.050	% of sample	1	1/15/2013 01:00 PM
PH			SW9045D			Analyst: JB
pH	8.97			s.u.	1	1/15/2013 10:45 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 18-Jan-13

Client: HRL Compliance Solutions

Project: Antero North Bank A Confirmation 1/10/13

Work Order: 1301397

Sample ID: BKGD 1

Lab ID: 1301397-03

Collection Date: 1/10/2013 11:00 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 1/16/2013	Analyst: RH
Arsenic	2.4		0.86	mg/Kg-dry	2	1/17/2013 03:42 PM
MOISTURE			A2540 G			Analyst: BAS
Moisture	24		0.050	% of sample	1	1/15/2013 01:00 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 18-Jan-13

Client: HRL Compliance Solutions
Project: Antero North Bank A Confirmation 1/10/13
Sample ID: BKGD 2
Collection Date: 1/10/2013 11:05 AM

Work Order: 1301397
Lab ID: 1301397-04
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS						
Arsenic	4.4		SW6020A 0.74	mg/Kg-dry	Prep Date: 1/16/2013 2	Analyst: RH 1/17/2013 03:47 PM
SOLUBLE CATIONS FOR SAR						
Calcium	53		SW6020A 5.7	mg/L-dry	Prep Date: 1/17/2013 10	Analyst: RH 1/17/2013 07:15 PM
Magnesium	7.2		2.3	mg/L-dry	10	1/17/2013 07:15 PM
Sodium	2,300		23	mg/L-dry	100	1/17/2013 06:31 PM
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	75		USDA H60 METHO 0.010	none	Prep Date: 1/17/2013 1	Analyst: RH 1/18/2013
ELECTRICAL CONDUCTIVITY (SAR)						
Electrical Conductivity @ Saturation	12		USDA H60 METHO 0.050	mmhos/cm @25	Prep Date: 1/17/2013 10	Analyst: JB 1/17/2013 04:00 PM
MOISTURE						
Moisture	12		A2540 G 0.050	% of sample	1	Analyst: BAS 1/15/2013 01:00 PM
PH						
pH	9.87		SW9045D	s.u.	1	Analyst: JB 1/16/2013 09:00 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 18-Jan-13

Client: HRL Compliance Solutions

Project: Antero North Bank A Confirmation 1/10/13

Work Order: 1301397

Sample ID: BKGD 3

Lab ID: 1301397-05

Collection Date: 1/10/2013 11:10 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>						
METALS BY ICP-MS			SW6020A		Prep Date: 1/16/2013	Analyst: RH
Arsenic	2.4		0.73	mg/Kg-dry	2	1/17/2013 03:53 PM
MOISTURE			A2540 G			Analyst: BAS
Moisture	15		0.050	% of sample	1	1/15/2013 01:00 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: HRL Compliance Solutions

QC BATCH REPORT

Work Order: 1301397

Project: Antero North Bank A Confirmation 1/10/13

Batch ID: 45916

Instrument ID GC8

Method: SW8015M

MBLK		Sample ID: DBLKS1-45916-45916				Units: mg/Kg		Analysis Date: 1/17/2013 10:44 AM		
Client ID:		Run ID: GC8_130117A				SeqNo: 2194715		Prep Date: 1/16/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	4.2								
Surr: 4-Terphenyl-d14	0.8227	0	1.667	0	49.4	39-115	0			

LCS		Sample ID: DLCSS1-45916-45916				Units: mg/Kg		Analysis Date: 1/17/2013 11:09 AM		
Client ID:		Run ID: GC8_130117A				SeqNo: 2194716		Prep Date: 1/16/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	157.5	4.2	166.7	0	94.5	49-124	0			
Surr: 4-Terphenyl-d14	1	0	1.667	0	60	39-115	0			

MS		Sample ID: 1301359-12A MS				Units: mg/Kg		Analysis Date: 1/17/2013 07:07 PM		
Client ID:		Run ID: GC8_130117B				SeqNo: 2195567		Prep Date: 1/16/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	448.5	12	487.3	36.34	84.6	49-130	0			
Surr: 4-Terphenyl-d14	2.885	0	4.873	0	59.2	39-115	0			

MSD		Sample ID: 1301359-12A MSD				Units: mg/Kg		Analysis Date: 1/17/2013 07:32 PM		
Client ID:		Run ID: GC8_130117B				SeqNo: 2195568		Prep Date: 1/16/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	426	12	481.1	36.34	81	49-130	448.5	5.15	30	
Surr: 4-Terphenyl-d14	2.712	0	4.811	0	56.4	39-115	2.885	6.17	30	

The following samples were analyzed in this batch: | 1301397-01B | 1301397-02B |

Client: HRL Compliance Solutions
 Work Order: 1301397
 Project: Antero North Bank A Confirmation 1/10/13

QC BATCH REPORT

Batch ID: **R115160** Instrument ID **GC10** Method: **SW8015**

MBLK		Sample ID: GBLK1-130115-R115160				Units: µg/L		Analysis Date: 1/15/2013 09:57 AM		
Client ID:		Run ID: GC10_130115A				SeqNo: 2194020		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	ND	200								
Surr: Toluene-d8	119.3	0	100	0	119	70-130	0			

LCS		Sample ID: GLCS1-130115-R115160				Units: µg/L		Analysis Date: 1/15/2013 09:33 AM		
Client ID:		Run ID: GC10_130115A				SeqNo: 2194019		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	8883	200	10000	0	88.8	70-130	0			
Surr: Toluene-d8	126	0	100	0	126	70-130	0			

MS		Sample ID: 1301359-14B MS				Units: µg/Kg		Analysis Date: 1/15/2013 06:37 PM		
Client ID:		Run ID: GC10_130115A				SeqNo: 2194037		Prep Date:		DF: 50
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	372700	2,500	500000	0	74.5	70-130	0			
Surr: Toluene-d8	6482	0	5000	0	130	50-150	0			

MSD		Sample ID: 1301359-14B MSD				Units: µg/Kg		Analysis Date: 1/15/2013 07:02 PM		
Client ID:		Run ID: GC10_130115A				SeqNo: 2194038		Prep Date:		DF: 50
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	389100	2,500	500000	0	77.8	70-130	372700	4.32	30	
Surr: Toluene-d8	5676	0	5000	0	114	50-150	6482	13.3	30	

The following samples were analyzed in this batch:

1301397-01A	1301397-02A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1301397
Project: Antero North Bank A Confirmation 1/10/13

QC BATCH REPORT

Batch ID: **45947** Instrument ID **HG1** Method: **SW7471**

MBLK		Sample ID: MBLK-45947-45947				Units: mg/Kg		Analysis Date: 1/17/2013 02:58 PM		
Client ID:		Run ID: HG1_130117A				SeqNo: 2194829		Prep Date: 1/17/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury ND 0.020

LCS		Sample ID: LCS-45947-45947				Units: mg/Kg		Analysis Date: 1/17/2013 03:00 PM		
Client ID:		Run ID: HG1_130117A				SeqNo: 2194833		Prep Date: 1/17/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1918 0.020 0.1665 0 115 80-120 0

MS		Sample ID: 1301480-02AMS				Units: mg/Kg		Analysis Date: 1/17/2013 03:23 PM		
Client ID:		Run ID: HG1_130117A				SeqNo: 2194847		Prep Date: 1/17/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1303 0.014 0.1194 0.004994 105 75-125 0

MSD		Sample ID: 1301480-02AMSD				Units: mg/Kg		Analysis Date: 1/17/2013 03:25 PM		
Client ID:		Run ID: HG1_130117A				SeqNo: 2194848		Prep Date: 1/17/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1508 0.017 0.138 0.004994 106 75-125 0.1303 14.6 35

The following samples were analyzed in this batch:

1301397-01B 1301397-02B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1301397
Project: Antero North Bank A Confirmation 1/10/13

QC BATCH REPORT

Batch ID: **45910** Instrument ID **ICPMS2** Method: **SW6020A** **(Dissolve)**

DUP		Sample ID: 1301397-02CDUP				Units: mg/L		Analysis Date: 1/17/2013 07:10 PM		
Client ID: Sample Point 2		Run ID: ICPMS2_130117B				SeqNo: 2195494		Prep Date:		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	574.2	5.0	0	0	0	0-0	420.7	30.9		
Magnesium	71.68	2.0	0	0	0	0-0	53.14	29.7		
Sodium	924.6	2.0	0	0	0	0-0	730.8	23.4		

The following samples were analyzed in this batch:

1301397-01C	1301397-02C	1301397-04B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1301397
Project: Antero North Bank A Confirmation 1/10/13

QC BATCH REPORT

Batch ID: **45932** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK		Sample ID: MBLK-45932-45932				Units: mg/Kg		Analysis Date: 1/17/2013 02:13 PM		
Client ID:		Run ID: ICPMS1_130117A				SeqNo: 2194893		Prep Date: 1/16/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.03627	0.25								J
Barium	ND	0.25								
Cadmium	ND	0.10								
Chromium	0.01784	0.25								J
Copper	0.04258	0.25								J
Lead	ND	0.25								
Nickel	ND	0.25								
Selenium	ND	0.25								
Silver	ND	0.25								
Zinc	ND	0.50								

LCS		Sample ID: LCS-45932-45932				Units: mg/Kg		Analysis Date: 1/17/2013 02:19 PM		
Client ID:		Run ID: ICPMS1_130117A				SeqNo: 2194894		Prep Date: 1/16/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.49	0.25	5	0	89.8	80-120	0			
Barium	4.96	0.25	5	0	99.2	80-120	0			
Cadmium	5.065	0.10	5	0	101	80-120	0			
Chromium	4.796	0.25	5	0	95.9	80-120	0			
Copper	4.913	0.25	5	0	98.3	80-120	0			
Lead	5.15	0.25	5	0	103	80-120	0			
Nickel	4.923	0.25	5	0	98.5	80-120	0			
Selenium	4.333	0.25	5	0	86.7	80-120	0			
Silver	5.01	0.25	5	0	100	80-120	0			
Zinc	4.421	0.50	5	0	88.4	80-120	0			

MS		Sample ID: 1301360-11AMS				Units: mg/Kg		Analysis Date: 1/17/2013 02:31 PM		
Client ID:		Run ID: ICPMS1_130117A				SeqNo: 2194896		Prep Date: 1/16/2013		DF: 4
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	11.53	1.3	6.274	7.2	69	75-125	0			S
Barium	85.8	1.3	6.274	77.64	130	75-125	0			SO
Cadmium	7.069	0.50	6.274	0.9179	98	75-125	0			
Chromium	26.68	1.3	6.274	20.14	104	75-125	0			
Copper	29.16	1.3	6.274	24.01	82.1	75-125	0			
Lead	76.29	1.3	6.274	75.92	5.85	75-125	0			SO
Nickel	15.71	1.3	6.274	9.759	94.8	75-125	0			
Selenium	6.956	1.3	6.274	1.095	93.4	75-125	0			
Silver	6.389	1.3	6.274	0.4484	94.7	75-125	0			
Zinc	103.6	2.5	6.274	111.9	-132	75-125	0			SO

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1301397
Project: Antero North Bank A Confirmation 1/10/13

QC BATCH REPORT

Batch ID: **45932** Instrument ID **ICPMS1** Method: **SW6020A**

MSD		Sample ID: 1301360-11AMSD				Units: mg/Kg		Analysis Date: 1/17/2013 02:36 PM		
Client ID:		Run ID: ICPMS1_130117A				SeqNo: 2194897		Prep Date: 1/16/2013		DF: 4
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	12.02	1.3	6.596	7.2	73.1	75-125	11.53	4.21	25	S
Barium	85.49	1.3	6.596	77.64	119	75-125	85.8	0.36	25	O
Cadmium	7.573	0.53	6.596	0.9179	101	75-125	7.069	6.88	25	
Chromium	27.68	1.3	6.596	20.14	114	75-125	26.68	3.69	25	
Copper	30.95	1.3	6.596	24.01	105	75-125	29.16	5.96	25	
Lead	81.95	1.3	6.596	75.92	91.5	75-125	76.29	7.16	25	O
Nickel	16.39	1.3	6.596	9.759	100	75-125	15.71	4.21	25	
Selenium	7.72	1.3	6.596	1.095	100	75-125	6.956	10.4	25	
Silver	6.815	1.3	6.596	0.4484	96.5	75-125	6.389	6.46	25	
Zinc	105.8	2.6	6.596	111.9	-92.1	75-125	103.6	2.09	25	SO

The following samples were analyzed in this batch:

1301397-01B	1301397-02B	1301397-03A
1301397-04A	1301397-05A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1301397
Project: Antero North Bank A Confirmation 1/10/13

QC BATCH REPORT

Batch ID: **45915** Instrument ID **SVMS6** Method: **SW8270**

MBLK		Sample ID: SBLKS1-45915-45915				Units: µg/Kg		Analysis Date: 1/16/2013 04:37 PM		
Client ID:		Run ID: SVMS6_130116A				SeqNo: 2194417		Prep Date: 1/16/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	30								
Acenaphthylene	ND	30								
Anthracene	ND	30								
Benzo(a)anthracene	ND	30								
Benzo(a)pyrene	ND	30								
Benzo(b)fluoranthene	ND	30								
Benzo(g,h,i)perylene	ND	30								
Benzo(k)fluoranthene	ND	30								
Chrysene	ND	30								
Dibenzo(a,h)anthracene	ND	30								
Fluoranthene	ND	30								
Fluorene	ND	30								
Indeno(1,2,3-cd)pyrene	ND	30								
Naphthalene	ND	30								
Pyrene	ND	30								
<i>Surr: 2-Fluorobiphenyl</i>	1223	0	1667	0	73.4	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1837	0	1667	0	110	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1453	0	1667	0	87.2	37-107	0			

LCS		Sample ID: SLCSS1-45915-45915				Units: µg/Kg		Analysis Date: 1/16/2013 02:53 PM		
Client ID:		Run ID: SVMS6_130116A				SeqNo: 2194413		Prep Date: 1/16/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	507	30	666.7	0	76	45-110	0			
Acenaphthylene	536.3	30	666.7	0	80.4	45-105	0			
Anthracene	608	30	666.7	0	91.2	55-105	0			
Benzo(a)anthracene	563	30	666.7	0	84.4	50-110	0			
Benzo(a)pyrene	644	30	666.7	0	96.6	50-110	0			
Benzo(b)fluoranthene	579	30	666.7	0	86.8	45-115	0			
Benzo(g,h,i)perylene	602.7	30	666.7	0	90.4	40-125	0			
Benzo(k)fluoranthene	665	30	666.7	0	99.7	45-115	0			
Chrysene	612.7	30	666.7	0	91.9	55-110	0			
Dibenzo(a,h)anthracene	645.3	30	666.7	0	96.8	40-125	0			
Fluoranthene	614.3	30	666.7	0	92.1	55-115	0			
Fluorene	534	30	666.7	0	80.1	50-110	0			
Indeno(1,2,3-cd)pyrene	602.7	30	666.7	0	90.4	40-120	0			
Naphthalene	523	30	666.7	0	78.4	40-105	0			
Pyrene	660.3	30	666.7	0	99	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	1250	0	1667	0	75	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1929	0	1667	0	116	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1459	0	1667	0	87.5	37-107	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1301397
Project: Antero North Bank A Confirmation 1/10/13

QC BATCH REPORT

Batch ID: **45915** Instrument ID **SVMS6** Method: **SW8270**

MS				Units: µg/Kg			Analysis Date: 1/16/2013 03:19 PM			
Client ID:		Run ID: SVMS6_130116A		SeqNo: 2194414		Prep Date: 1/16/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1375	84	1870	0	73.5	45-110	0			
Acenaphthylene	1465	84	1870	0	78.3	45-105	0			
Anthracene	1674	84	1870	0	89.5	55-105	0			
Benzo(a)anthracene	1558	84	1870	0	83.3	50-110	0			
Benzo(a)pyrene	1769	84	1870	0	94.6	50-110	0			
Benzo(b)fluoranthene	1575	84	1870	0	84.2	45-115	0			
Benzo(g,h,i)perylene	1769	84	1870	0	94.6	40-125	0			
Benzo(k)fluoranthene	1891	84	1870	0	101	45-115	0			
Chrysene	1693	84	1870	0	90.5	55-110	0			
Dibenzo(a,h)anthracene	1924	84	1870	0	103	40-125	0			
Fluoranthene	1674	84	1870	0	89.5	55-115	0			
Fluorene	1503	84	1870	0	80.3	50-110	0			
Indeno(1,2,3-cd)pyrene	1769	84	1870	0	94.6	40-120	0			
Naphthalene	1373	84	1870	0	73.4	40-105	0			
Pyrene	1779	84	1870	0	95.1	45-125	0			
Surr: 2-Fluorobiphenyl	3370	0	4676	0	72.1	12-100	0			
Surr: 4-Terphenyl-d14	5272	0	4676	0	113	25-137	0			
Surr: Nitrobenzene-d5	3891	0	4676	0	83.2	37-107	0			

MSD				Units: µg/Kg			Analysis Date: 1/16/2013 03:45 PM			
Client ID:		Run ID: SVMS6_130116A		SeqNo: 2194415		Prep Date: 1/16/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1335	86	1921	0	69.5	45-110	1375	2.91	30	
Acenaphthylene	1416	86	1921	0	73.7	45-105	1465	3.37	30	
Anthracene	1713	86	1921	0	89.1	55-105	1674	2.29	30	
Benzo(a)anthracene	1609	86	1921	0	83.7	50-110	1558	3.22	30	
Benzo(a)pyrene	1817	86	1921	0	94.6	50-110	1769	2.68	30	
Benzo(b)fluoranthene	1598	86	1921	0	83.1	45-115	1575	1.43	30	
Benzo(g,h,i)perylene	1800	86	1921	0	93.7	40-125	1769	1.73	30	
Benzo(k)fluoranthene	1972	86	1921	0	103	45-115	1891	4.2	30	
Chrysene	1748	86	1921	0	91	55-110	1693	3.23	30	
Dibenzo(a,h)anthracene	1973	86	1921	0	103	40-125	1924	2.54	30	
Fluoranthene	1734	86	1921	0	90.2	55-115	1674	3.52	30	
Fluorene	1480	86	1921	0	77	50-110	1503	1.51	30	
Indeno(1,2,3-cd)pyrene	1800	86	1921	0	93.7	40-120	1769	1.73	30	
Naphthalene	1318	86	1921	0	68.6	40-105	1373	4.08	30	
Pyrene	1807	86	1921	0	94	45-125	1779	1.57	30	
Surr: 2-Fluorobiphenyl	3190	0	4803	0	66.4	12-100	3370	5.49	40	
Surr: 4-Terphenyl-d14	5144	0	4803	0	107	25-137	5272	2.45	40	
Surr: Nitrobenzene-d5	3662	0	4803	0	76.2	37-107	3891	6.08	40	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1301397
Project: Antero North Bank A Confirmation 1/10/13

QC BATCH REPORT

Batch ID: **45915** Instrument ID **SVMS6** Method: **SW8270**

The following samples were analyzed in this batch:

1301397-01B	1301397-02B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1301397
Project: Antero North Bank A Confirmation 1/10/13

QC BATCH REPORT

Batch ID: **45908** Instrument ID **VMS9** Method: **SW8260**

MBLK		Sample ID: MBLK-45908-45908				Units: µg/Kg		Analysis Date: 1/15/2013 01:16 PM		
Client ID:		Run ID: VMS9_130115A				SeqNo: 2192593		Prep Date: 1/15/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	1022	0	1000	0	102	70-130		0		
Surr: 4-Bromofluorobenzene	959	0	1000	0	95.9	70-130		0		
Surr: Dibromofluoromethane	929	0	1000	0	92.9	70-130		0		
Surr: Toluene-d8	989	0	1000	0	98.9	70-130		0		

MBLK		Sample ID: MBLK-45908-45908				Units: µg/Kg		Analysis Date: 1/15/2013 01:39 PM		
Client ID:		Run ID: VMS8_130115A				SeqNo: 2192854		Prep Date: 1/15/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	854.5	0	1000	0	85.4	70-130		0		
Surr: 4-Bromofluorobenzene	948	0	1000	0	94.8	70-130		0		
Surr: Dibromofluoromethane	892.5	0	1000	0	89.2	70-130		0		
Surr: Toluene-d8	976	0	1000	0	97.6	70-130		0		

MBLK		Sample ID: MBLK-45908-45908				Units: µg/Kg		Analysis Date: 1/16/2013 01:34 AM		
Client ID:		Run ID: VMS8_130115B				SeqNo: 2193206		Prep Date: 1/15/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	894.5	0	1000	0	89.4	70-130		0		
Surr: 4-Bromofluorobenzene	1034	0	1000	0	103	70-130		0		
Surr: Dibromofluoromethane	917.5	0	1000	0	91.8	70-130		0		
Surr: Toluene-d8	985	0	1000	0	98.5	70-130		0		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1301397
Project: Antero North Bank A Confirmation 1/10/13

QC BATCH REPORT

Batch ID: **45908** Instrument ID **VMS9** Method: **SW8260**

MBLK		Sample ID: MBLK-45908-45908				Units: µg/Kg		Analysis Date: 1/16/2013 03:47 PM		
Client ID:		Run ID: VMS6_130116A				SeqNo: 2194677		Prep Date: 1/15/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
<i>Surr: 1,2-Dichloroethane-d4</i>										
<i>Surr: 4-Bromofluorobenzene</i>										
<i>Surr: Dibromofluoromethane</i>										
<i>Surr: Toluene-d8</i>										

LCS		Sample ID: LCS-45908-45908				Units: µg/Kg		Analysis Date: 1/15/2013 11:59 AM		
Client ID:		Run ID: VMS9_130115A				SeqNo: 2192592		Prep Date: 1/15/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	941.5	30	1000	0	94.2	75-125	0			
Ethylbenzene	1000	30	1000	0	100	75-125	0			
m,p-Xylene	2008	60	2000	0	100	80-125	0			
o-Xylene	1004	30	1000	0	100	75-125	0			
Toluene	959	30	1000	0	95.9	70-125	0			
Xylenes, Total	3012	90	3000	0	100	75-125	0			
<i>Surr: 1,2-Dichloroethane-d4</i>										
<i>Surr: 4-Bromofluorobenzene</i>										
<i>Surr: Dibromofluoromethane</i>										
<i>Surr: Toluene-d8</i>										

LCS		Sample ID: LCS-45908-45908				Units: µg/Kg		Analysis Date: 1/15/2013 12:27 PM		
Client ID:		Run ID: VMS8_130115A				SeqNo: 2192853		Prep Date: 1/15/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1032	30	1000	0	103	75-125	0			
Ethylbenzene	1121	30	1000	0	112	75-125	0			
m,p-Xylene	2246	60	2000	0	112	80-125	0			
o-Xylene	1054	30	1000	0	105	75-125	0			
Toluene	1063	30	1000	0	106	70-125	0			
Xylenes, Total	3299	90	3000	0	110	75-125	0			
<i>Surr: 1,2-Dichloroethane-d4</i>										
<i>Surr: 4-Bromofluorobenzene</i>										
<i>Surr: Dibromofluoromethane</i>										
<i>Surr: Toluene-d8</i>										

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1301397
Project: Antero North Bank A Confirmation 1/10/13

QC BATCH REPORT

Batch ID: **45908** Instrument ID **VMS9** Method: **SW8260**

LCS Sample ID: LCS-45908-45908				Units: µg/Kg		Analysis Date: 1/16/2013 12:23 PM				
Client ID:		Run ID: VMS8_130115B		SeqNo: 2193208		Prep Date: 1/15/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	973.5	30	1000	0	97.4	75-125	0			
Ethylbenzene	1114	30	1000	0	111	75-125	0			
m,p-Xylene	2279	60	2000	0	114	80-125	0			
o-Xylene	1046	30	1000	0	105	75-125	0			
Toluene	1012	30	1000	0	101	70-125	0			
Xylenes, Total	3324	90	3000	0	111	75-125	0			
Surr: 1,2-Dichloroethane-d4	921.5	0	1000	0	92.2	70-130	0			
Surr: 4-Bromofluorobenzene	1056	0	1000	0	106	70-130	0			
Surr: Dibromofluoromethane	932.5	0	1000	0	93.2	70-130	0			
Surr: Toluene-d8	973	0	1000	0	97.3	70-130	0			

LCS Sample ID: LCS-45908-45908				Units: µg/Kg		Analysis Date: 1/16/2013 02:34 PM				
Client ID:		Run ID: VMS6_130116A		SeqNo: 2194676		Prep Date: 1/15/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	936	30	1000	0	93.6	75-125	0			
Ethylbenzene	937	30	1000	0	93.7	75-125	0			
m,p-Xylene	1812	60	2000	0	90.6	80-125	0			
o-Xylene	931	30	1000	0	93.1	75-125	0			
Toluene	958	30	1000	0	95.8	70-125	0			
Xylenes, Total	2742	90	3000	0	91.4	75-125	0			
Surr: 1,2-Dichloroethane-d4	971.5	0	1000	0	97.2	70-130	0			
Surr: 4-Bromofluorobenzene	989.5	0	1000	0	99	70-130	0			
Surr: Dibromofluoromethane	1010	0	1000	0	101	70-130	0			
Surr: Toluene-d8	1002	0	1000	0	100	70-130	0			

MS Sample ID: 1301397-02A MS				Units: µg/Kg		Analysis Date: 1/16/2013 11:08 PM				
Client ID: Sample Point 2		Run ID: VMS6_130116A		SeqNo: 2194663		Prep Date: 1/15/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	927	30	1000	0	92.7	75-125	0			
Ethylbenzene	941	30	1000	0	94.1	75-125	0			
m,p-Xylene	1816	60	2000	0	90.8	80-125	0			
o-Xylene	934	30	1000	0	93.4	75-125	0			
Toluene	945	30	1000	0	94.5	70-125	0			
Xylenes, Total	2750	90	3000	0	91.6	75-125	0			
Surr: 1,2-Dichloroethane-d4	957.5	0	1000	0	95.8	70-130	0			
Surr: 4-Bromofluorobenzene	997.5	0	1000	0	99.8	70-130	0			
Surr: Dibromofluoromethane	1004	0	1000	0	100	70-130	0			
Surr: Toluene-d8	992.5	0	1000	0	99.2	70-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1301397
Project: Antero North Bank A Confirmation 1/10/13

QC BATCH REPORT

Batch ID: **45908** Instrument ID **VMS9** Method: **SW8260**

MSD					Sample ID: 1301397-02A MSD		Units: µg/Kg		Analysis Date: 1/16/2013 11:32 PM		
Client ID: Sample Point 2			Run ID: VMS6_130116A			SeqNo: 2194664		Prep Date: 1/15/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	891.5	30	1000	0	89.2	75-125	927	3.9	30		
Ethylbenzene	908.5	30	1000	0	90.8	75-125	941	3.51	30		
m,p-Xylene	1743	60	2000	0	87.2	80-125	1816	4.07	30		
o-Xylene	892	30	1000	0	89.2	75-125	934	4.6	30		
Toluene	901.5	30	1000	0	90.2	70-125	945	4.71	30		
Xylenes, Total	2635	90	3000	0	87.8	75-125	2750	4.25	30		
Surr: 1,2-Dichloroethane-d4	1004	0	1000	0	100	70-130	957.5	4.74	30		
Surr: 4-Bromofluorobenzene	1018	0	1000	0	102	70-130	997.5	2.03	30		
Surr: Dibromofluoromethane	1021	0	1000	0	102	70-130	1004	1.73	30		
Surr: Toluene-d8	993.5	0	1000	0	99.4	70-130	992.5	0.101	30		

The following samples were analyzed in this batch: 1301397-01A 1301397-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1301397
Project: Antero North Bank A Confirmation 1/10/13

QC BATCH REPORT

Batch ID: **45939** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK		Sample ID: MBLK-45939-45939				Units: mg/Kg		Analysis Date: 1/16/2013 04:00 PM		
Client ID:		Run ID: WETCHEM_130116M				SeqNo: 2193917		Prep Date: 1/15/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 0.50

LCS		Sample ID: LCS-45939-45939				Units: mg/Kg		Analysis Date: 1/16/2013 04:00 PM		
Client ID:		Run ID: WETCHEM_130116M				SeqNo: 2193916		Prep Date: 1/15/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.882 0.50 2 0 94.1 75-110 0

MS		Sample ID: 1301398-01B MS				Units: mg/Kg		Analysis Date: 1/16/2013 04:00 PM		
Client ID:		Run ID: WETCHEM_130116M				SeqNo: 2193913		Prep Date: 1/15/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.594 0.51 2.024 0 78.8 60-130 0

MSD		Sample ID: 1301398-01B MSD				Units: mg/Kg		Analysis Date: 1/16/2013 04:00 PM		
Client ID:		Run ID: WETCHEM_130116M				SeqNo: 2193914		Prep Date: 1/15/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.722 0.50 1.992 0 86.4 60-130 0 0 30

The following samples were analyzed in this batch:

1301397-01B 1301397-02B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
 Work Order: 1301397
 Project: Antero North Bank A Confirmation 1/10/13

QC BATCH REPORT

Batch ID: **R115090** Instrument ID **WETCHEM** Method: **A4500-H B**

LCS	Sample ID: WLCSW1-130115-R115090					Units: s.u.		Analysis Date: 1/15/2013 10:45 AM		
Client ID:	Run ID: WETCHEM_130115D				SeqNo: 2192568		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 4.5 0 4.4 0 102 90-110 0

LCS	Sample ID: WLCS1-130115-R115090					Units: s.u.		Analysis Date: 1/15/2013 10:45 AM		
Client ID:	Run ID: WETCHEM_130115D				SeqNo: 2192585		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 4.5 0 4.4 0 102 90-110 0

DUP	Sample ID: 1301412-03A DUP					Units: s.u.		Analysis Date: 1/15/2013 10:45 AM		
Client ID:	Run ID: WETCHEM_130115D				SeqNo: 2192572		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 7.39 0 0 0 0 0-0 7.39 0 20 H

DUP	Sample ID: 1301414-02A DUP					Units: s.u.		Analysis Date: 1/15/2013 10:45 AM		
Client ID:	Run ID: WETCHEM_130115D				SeqNo: 2192583		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 6.29 0 0 0 0 0-0 6.3 0.159 20 H

DUP	Sample ID: 1301398-01B DUP					Units: s.u.		Analysis Date: 1/15/2013 10:45 AM		
Client ID:	Run ID: WETCHEM_130115D				SeqNo: 2192589		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 9.9 0 0 0 0 0-0 9.9 0 20

The following samples were analyzed in this batch:

1301397-01B 1301397-02B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1301397
Project: Antero North Bank A Confirmation 1/10/13

QC BATCH REPORT

Batch ID: **R115106** Instrument ID **MOIST** Method: **A2540 G**

MBLK	Sample ID: WBLKS1-R115106					Units: % of sample		Analysis Date: 1/15/2013 01:00 PM		
Client ID:	Run ID: MOIST_130115E				SeqNo: 2193541		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture ND 0.050

LCS	Sample ID: LCS-R115106					Units: % of sample		Analysis Date: 1/15/2013 01:00 PM		
Client ID:	Run ID: MOIST_130115E				SeqNo: 2193537		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 99.99 0.050 100 0 100 99.5-100.5 0

DUP	Sample ID: 1301358-07B DUP					Units: % of sample		Analysis Date: 1/15/2013 01:00 PM		
Client ID:	Run ID: MOIST_130115E				SeqNo: 2193522		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 15.04 0.050 0 0 0 0-0 14.82 1.47 20

DUP	Sample ID: 1301402-02A DUP					Units: % of sample		Analysis Date: 1/15/2013 01:00 PM		
Client ID:	Run ID: MOIST_130115E				SeqNo: 2193530		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 9.63 0.050 0 0 0 0-0 9.26 3.92 20

The following samples were analyzed in this batch:

1301397-01B	1301397-02B	1301397-03A
1301397-04A	1301397-05A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1301397
Project: Antero North Bank A Confirmation 1/10/13

QC BATCH REPORT

Batch ID: **R115155** Instrument ID **WETCHEM** Method: **A4500-H B**

LCS		Sample ID: WLCSW1-130116-R115155				Units: s.u.		Analysis Date: 1/16/2013 09:00 AM		
Client ID:		Run ID: WETCHEM_1301160				SeqNo: 2193966		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 4.31 0 4.4 0 98 90-110 0

LCS		Sample ID: WLCSS1-130116-R115155				Units: s.u.		Analysis Date: 1/16/2013 09:00 AM		
Client ID:		Run ID: WETCHEM_1301160				SeqNo: 2193987		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 4.31 0 4.4 0 98 90-110 0

DUP		Sample ID: 1301439-02A DUP				Units: s.u.		Analysis Date: 1/16/2013 09:00 AM		
Client ID:		Run ID: WETCHEM_1301160				SeqNo: 2193970		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 5.71 0 0 0 0 0-0 5.71 0 20

DUP		Sample ID: 1301443-02A DUP				Units: s.u.		Analysis Date: 1/16/2013 09:00 AM		
Client ID:		Run ID: WETCHEM_1301160				SeqNo: 2193979		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 6.75 0 0 0 0 0-0 6.75 0 20 H

DUP		Sample ID: 1301397-04A DUP				Units: s.u.		Analysis Date: 1/16/2013 09:00 AM		
Client ID: BKGD 2		Run ID: WETCHEM_1301160				SeqNo: 2193989		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 9.87 0 0 0 0 0-0 9.87 0 20

The following samples were analyzed in this batch:

1301397-04A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

WORKORDER
#

1301397

PAGE

1 of 1

DISPOSAL



By Lab or Return to Client

[illegible]

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments: <div style="text-align: center;"> </div>	QC PACKAGE (check below)	
	X	LEVEL II (Standard QC)
		LEVEL III (Std QC + forms)
		LEVEL IV (Std QC + forms + raw data)
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-NaHSO ₄ 7-Other 8-4 degrees C 9-5035		

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Reed Wolf	11/14/13	5:00
RECEIVED BY		Diane F Shaw	11/15/13	0930
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 15-Jan-13 09:30

Work Order: 1301397

Received by: DS

Checklist completed by Diane Shaw 15-Jan-13
eSignature Date

Reviewed by: Ann Preston 15-Jan-13
eSignature Date

Matrices: Soil

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>3.0 c</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>1/15/2013 10:51:30 AM</u>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:			
Login Notes:			

Client Contacted:

Date Contacted:

Person Contacted:

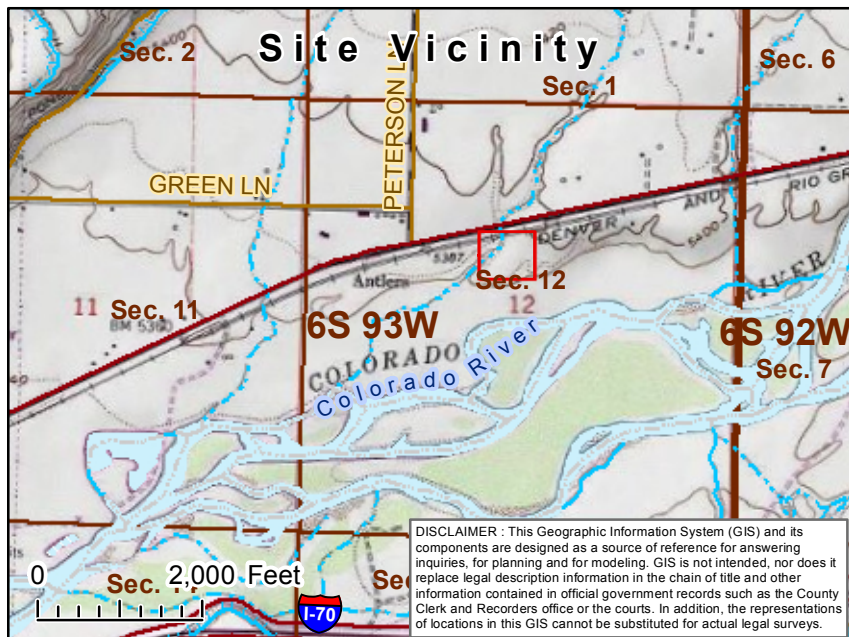
Contacted By:

Regarding:

Comments:

CorrectiveAction:

ATTACHMENT 2-A



Attachment A--Sample Location Map

Location: North Bank A

Antero Resources Piceance Corp.

Legend

● Sample Point

● Gas Well Head

Hydrographic Features

— Perennial Stream

--- Intermittent Stream

--- Ditch/Canal

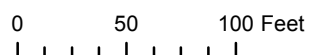
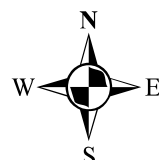
PLSS

□ Township

□ Section

— Highways

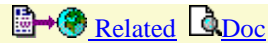
— Public Roads



PRIOR HISTORY

COGIS - Remediation Reports

Form 27/27A



Date Submitted: 11/29/2006

Date Rec'd: 11/29/2006

DocNum: 200099420

Document Type:

Assigned by: BOB CHESSON

API number: 05-045-12391

Project Number: 3805

Operator Information:

Operator: ANTERO RESOURCES CORPORATION

Oper. No. 10079

Address: 1625 17TH ST STE 300 DENVER
, CO 80202

Type of Facility: WELL

Fac. Name NORTH BANK

County Name: GARFIELD

Operator contact:

qtrqtr: SENW **section:** 12 **township:** 6S **range:** 93W **meridian:** 6

Remediation Details:

Reason for Report: OTHER **Cause of Condition:** OTHER **Potential Receptors:** LOWC on well
pad follow-up water well and soil gas sampling reports.

Conditions of Approval:

Correspondence Log: