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31 December 2013

Arthur Koepsell  
Colorado Oil and Gas Conservation Commission- Den  
1120 Lincoln Street  
Denver, CO 80203  
RE: Gas MW + Ba, B, BTEX

Enclosed are the results of analyses for samples received by the laboratory on 12/16/13 12:12.  
If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads 'Debbie Zufelt'.

Debbie Zufelt  
Reports Manager

All accredited analytes contained in this report are denoted by an asterisk (\*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. Our NELAP accreditation can be viewed at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water.

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water.



Colorado Oil and Gas Conservation Commission- Den  
1120 Lincoln Street  
Denver CO, 80203

Project: Gas MW + Ba, B, BTEX  
Project Name / Number: [none]  
Project Manager: Arthur Koepsell

**Reported:**  
12/31/13 12:03

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Arens Water Well Complaint #200392550- FCG121613-L1	1312117-01	Water	12/16/13 11:05	12/16/13 12:12

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Debbie Zufelt, Reports Manager

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**Arens Water Well Complaint #200392550- FCG121613-L1  
707134**

**1312117-01 (Water)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

Alkalinity, Bicarbonate*	226	10.0		mg/L	2	12/27/13	2320 B		ABP
Alkalinity, Carbonate*	<10.0	10.0		mg/L	2	12/27/13	2320 B		ABP
Alkalinity, Hydroxide*	<10.0	10.0		mg/L	2	12/27/13	2320 B		ABP
Alkalinity, Total*	226	10.0		mg/L	2	12/27/13	2320 B		ABP
Chloride*	11.0	10.0	5.00	mg/L	1	12/30/13	4500-Cl- C		JAW
Conductivity*	452	10.0		uS/cm	1	12/18/13	2510 B		MJV
Fluoride*	0.317	0.200	0.0194	mg/L	1	12/23/13	4500-F- C		ABP
Nitrate/Nitrite as N*	1.32	0.020	0.010	mg/L	1	12/18/13	EPA353.2		KLJ
pH*	6.98			pH Units	1	12/17/13	EPA150.1		MJV
Sulfate	11.0	10.0	1.08	mg/L	1	12/18/13	4500-SO42- E		ABP
TDS*	270	10.0		mg/L	1	12/18/13	EPA160.1		JAW

**Total Recoverable Metals by ICP (E200.7)**

Boron	<0.300	0.300	0.033	mg/L	1	12/19/13	EPA200.7		JGS
Calcium*	53.3	1.00	0.004	mg/L	1	12/19/13	EPA200.7		JGS
Hardness	163	6.62	0.088	mg/L	1	12/19/13	Calc		JGS
Iron*	<0.050	0.050	0.004	mg/L	1	12/19/13	EPA200.7		JGS
Magnesium*	7.29	1.00	0.019	mg/L	1	12/19/13	EPA200.7		JGS
Potassium*	1.05	1.00	0.364	mg/L	1	12/19/13	EPA200.7		JGS
Sodium*	38.9	1.00	0.004	mg/L	1	12/19/13	EPA200.7		JGS

**Total Recoverable Metals by ICPMS (E200.8)**

Barium*	0.146	0.0005	0.00004	mg/L	1	12/20/13	EPA200.8		JGS
Manganese*	<0.0005	0.0005	0.0004	mg/L	1	12/20/13	EPA200.8		JGS
Selenium*	0.0043	0.0010	0.0004	mg/L	1	12/20/13	EPA200.8		JGS

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Cation/Anion Balance

7.52

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Project Name / Number: [none]  
Project Manager: Arthur Koepsell

Reported:  
12/31/13 12:03

Subcontracted -- **Cardinal Laboratories**

**Arens Water Well Complaint #200392550- FCG121613-L1  
707134**

**1312117-01 (Water)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Volatile Organic Compounds by EPA Method 8260B**

Surrogate: 4-Bromofluorobenzene			99.0 %	53.7-120		12/23/13	8260B		MS
<b>Benzene*</b>	<0.0005	0.0005	0.0002	mg/L	1	12/23/13	8260B		MS
Surrogate: Dibromofluoromethane			101 %	59.8-161		12/23/13	8260B		MS
<b>Ethylbenzene*</b>	<0.0005	0.0005	0.0002	mg/L	1	12/23/13	8260B		MS
<b>Toluene*</b>	<0.0005	0.0005	0.0002	mg/L	1	12/23/13	8260B		MS
Surrogate: Toluene-d8			96.6 %	75.2-115		12/23/13	8260B		MS
<b>Total BTEX</b>	<0.003	0.003	0.0009	mg/L	1	12/23/13	8260B		MS
<b>Total Xylenes*</b>	<0.002	0.002	0.0005	mg/L	1	12/23/13	8260B		MS
<b>Cation/Anion Balance</b>	<b>7.52</b>								

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Debbie Zufelt, Reports Manager

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Project Name / Number: [none]  
Project Manager: Arthur Koepsell

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### General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B312150 - General Prep - Wet Chem

##### Blank (B312150-BLK1)

Prepared: 12/17/13 Analyzed: 12/18/13

Nitrate/Nitrite as N	ND	0.020	mg/L
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##### LCS (B312150-BS1)

Prepared: 12/17/13 Analyzed: 12/18/13

Nitrate/Nitrite as N	0.536	0.020	mg/L	0.500	107	90-110
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##### LCS Dup (B312150-BSD1)

Prepared: 12/17/13 Analyzed: 12/18/13

Nitrate/Nitrite as N	0.513	0.020	mg/L	0.500	103	90-110	4.39	20
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#### Batch B312166 - General Prep - Wet Chem

##### Duplicate (B312166-DUP2)

Source: 1312116-05

Prepared & Analyzed: 12/18/13

Conductivity	12900	10.0	uS/cm	12800	0.234	20
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##### Reference (B312166-SRM1)

Prepared & Analyzed: 12/18/13

Conductivity	477	uS/cm	452	106	90-110
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#### Batch B312170 - General Prep - Wet Chem

##### Duplicate (B312170-DUP1)

Source: 1312116-03

Prepared & Analyzed: 12/17/13

pH	7.55	pH Units	7.49	0.798	20
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##### Reference (B312170-SRM1)

Prepared & Analyzed: 12/17/13

pH	8.64	pH Units	8.93	96.8	90-110
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#### Batch B312176 - General Prep - Wet Chem

##### Blank (B312176-BLK1)

Prepared: 12/17/13 Analyzed: 12/18/13

TDS	ND	10.0	mg/L
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Project: Gas MW + Ba, B, BTEX  
Project Name / Number: [none]  
Project Manager: Arthur Koepsell

Reported:  
12/31/13 12:03

### General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B312176 - General Prep - Wet Chem

<b>Duplicate (B312176-DUP1)</b>		<b>Source: 1312116-01</b>		Prepared: 12/17/13 Analyzed: 12/18/13						
TDS	5480	10.0	mg/L		5180			5.63	20	
<b>Reference (B312176-SRM1)</b>				Prepared: 12/17/13 Analyzed: 12/18/13						
TDS	1110	10.0	mg/L	1090		101	85-115			

#### Batch B312181 - General Prep - Wet Chem

<b>Blank (B312181-BLK1)</b>		Prepared & Analyzed: 12/18/13								
Sulfate	ND	10.0	mg/L							
<b>LCS (B312181-BS1)</b>		Prepared & Analyzed: 12/18/13								
Sulfate	46.0	10.0	mg/L	50.0		92.0	85-115			
<b>LCS Dup (B312181-BSD1)</b>		Prepared & Analyzed: 12/18/13								
Sulfate	50.0	10.0	mg/L	50.0		100	85-115	8.33	20	

#### Batch B312211 - General Prep - Wet Chem

<b>Blank (B312211-BLK1)</b>		Prepared & Analyzed: 12/23/13								
Fluoride	ND	0.200	mg/L							
<b>LCS (B312211-BS1)</b>		Prepared & Analyzed: 12/23/13								
Fluoride	1.10	0.200	mg/L	1.00		110	85-115			
<b>LCS Dup (B312211-BSD1)</b>		Prepared & Analyzed: 12/23/13								
Fluoride	1.02	0.200	mg/L	1.00		102	85-115	7.91	20	

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Project: Gas MW + Ba, B, BTEX  
Project Name / Number: [none]  
Project Manager: Arthur Koepsell

Reported:  
12/31/13 12:03

### General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B312242 - General Prep - Wet Chem

##### Blank (B312242-BLK1)

Prepared & Analyzed: 12/27/13

Alkalinity, Total ND 10.0 mg/L

##### LCS (B312242-BS1)

Prepared & Analyzed: 12/27/13

Alkalinity, Total 103 10.0 mg/L 100 103 85-115

##### LCS Dup (B312242-BSD1)

Prepared & Analyzed: 12/27/13

Alkalinity, Total 102 10.0 mg/L 100 102 85-115 0.976 20

#### Batch B312245 - General Prep - Wet Chem

##### Blank (B312245-BLK1)

Prepared & Analyzed: 12/30/13

Chloride ND 10.0 mg/L

##### LCS (B312245-BS1)

Prepared & Analyzed: 12/30/13

Chloride 106 10.0 mg/L 100 106 85-115

##### LCS Dup (B312245-BSD1)

Prepared & Analyzed: 12/30/13

Chloride 104 10.0 mg/L 100 104 85-115 1.90 20

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Project: Gas MW + Ba, B, BTEX  
Project Name / Number: [none]  
Project Manager: Arthur Koepsell

Reported:  
12/31/13 12:03

### Total Recoverable Metals by ICP (E200.7) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B312185 - Total Recoverable, Direct Analysis E200.7/E200.8

##### Blank (B312185-BLK1)

Prepared & Analyzed: 12/19/13

Boron	ND	0.300	mg/L
Calcium	ND	1.00	mg/L
Iron	ND	0.050	mg/L
Magnesium	ND	1.00	mg/L
Potassium	ND	1.00	mg/L
Sodium	ND	1.00	mg/L

##### LCS (B312185-BS1)

Prepared & Analyzed: 12/19/13

Boron	4.25	0.300	mg/L	5.00	85.0	85-115
Calcium	4.52	1.00	mg/L	5.00	90.4	85-115
Iron	4.60	0.050	mg/L	5.00	91.9	85-115
Magnesium	23.5	1.00	mg/L	25.0	94.1	85-115
Potassium	8.80	1.00	mg/L	10.0	88.0	85-115
Sodium	7.96	1.00	mg/L	8.10	98.3	85-115

##### LCS Dup (B312185-BSD1)

Prepared & Analyzed: 12/19/13

Boron	4.33	0.300	mg/L	5.00	86.6	85-115	1.89	20
Calcium	4.60	1.00	mg/L	5.00	92.0	85-115	1.70	20
Iron	4.68	0.050	mg/L	5.00	93.6	85-115	1.77	20
Magnesium	23.9	1.00	mg/L	25.0	95.7	85-115	1.65	20
Potassium	8.92	1.00	mg/L	10.0	89.2	85-115	1.28	20
Sodium	7.99	1.00	mg/L	8.10	98.7	85-115	0.380	20

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Project: Gas MW + Ba, B, BTEX  
Project Name / Number: [none]  
Project Manager: Arthur Koepsell

Reported:  
12/31/13 12:03

### Total Recoverable Metals by ICPMS (E200.8) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B312189 - Total Recoverable, Direct Analysis E200.7/E200.8

##### Blank (B312189-BLK1)

Prepared: 12/19/13 Analyzed: 12/20/13

Barium	ND	0.0005	mg/L
Manganese	ND	0.0005	mg/L
Selenium	ND	0.0010	mg/L

##### LCS (B312189-BS1)

Prepared: 12/19/13 Analyzed: 12/20/13

Barium	0.0492	0.0005	mg/L	0.0500	98.4	85-115
Manganese	0.0518	0.0005	mg/L	0.0500	104	85-115
Selenium	0.257	0.0010	mg/L	0.250	103	85-115

##### LCS Dup (B312189-BSD1)

Prepared: 12/19/13 Analyzed: 12/20/13

Barium	0.0498	0.0005	mg/L	0.0500	99.6	85-115	1.19	20
Manganese	0.0524	0.0005	mg/L	0.0500	105	85-115	1.21	20
Selenium	0.265	0.0010	mg/L	0.250	106	85-115	3.17	20

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Project: Gas MW + Ba, B, BTEX  
Project Name / Number: [none]  
Project Manager: Arthur Koepsell

Reported:  
12/31/13 12:03

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 3122302 - Volatiles

##### Blank (3122302-BLK1)

Prepared &amp; Analyzed: 12/23/13

Surrogate: 4-Bromofluorobenzene	0.00968		mg/L	0.0100		96.8	53.7-120			
Benzene	ND	0.0005	mg/L							
Surrogate: Dibromofluoromethane	0.0102		mg/L	0.0100		102	59.8-161			
Ethylbenzene	ND	0.0005	mg/L							
Toluene	ND	0.0005	mg/L							
Surrogate: Toluene-d8	0.00978		mg/L	0.0100		97.8	75.2-115			
Total BTEX	ND	0.003	mg/L							
Total Xylenes	ND	0.002	mg/L							

##### LCS (3122302-BS1)

Prepared &amp; Analyzed: 12/23/13

Surrogate: 4-Bromofluorobenzene	0.00948		mg/L	0.0100		94.8	53.7-120			
Benzene	0.020	0.0005	mg/L	0.0200		101	76.6-123			
Surrogate: Dibromofluoromethane	0.0102		mg/L	0.0100		102	59.8-161			
Ethylbenzene	0.021	0.0005	mg/L	0.0200		104	81.4-123			
m+p - Xylene	0.042	0.001	mg/L				79.7-125			
o-Xylene	0.021	0.0005	mg/L	0.0200		106	74.3-125			
Toluene	0.021	0.0005	mg/L	0.0200		104	80.8-119			
Surrogate: Toluene-d8	0.00969		mg/L	0.0100		96.9	75.2-115			
Total Xylenes	0.063	0.002	mg/L	0.0600		106	76.9-125			

##### LCS Dup (3122302-BSD1)

Prepared &amp; Analyzed: 12/23/13

Surrogate: 4-Bromofluorobenzene	0.0100		mg/L	0.0100		100	53.7-120			
Benzene	0.019	0.0005	mg/L	0.0200		97.0	76.6-123	3.99	16.1	
Surrogate: Dibromofluoromethane	0.00981		mg/L	0.0100		98.1	59.8-161			
Ethylbenzene	0.021	0.0005	mg/L	0.0200		106	81.4-123	1.43	17.3	
m+p - Xylene	0.043	0.001	mg/L				79.7-125	0.968	14.8	
o-Xylene	0.021	0.0005	mg/L	0.0200		107	74.3-125	0.749	16.6	
Toluene	0.021	0.0005	mg/L	0.0200		105	80.8-119	1.05	16.5	
Surrogate: Toluene-d8	0.00984		mg/L	0.0100		98.4	75.2-115			
Total Xylenes	0.064	0.002	mg/L	0.0600		107	76.9-125	0.894	15.7	

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Project: Gas MW + Ba, B, BTEX  
Project Name / Number: [none]  
Project Manager: Arthur Koepsell

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### Notes and Definitions

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
\*Results reported on as received basis unless designated as dry.  
RPD Relative Percent Difference  
LCS Laboratory Control Sample (Blank Spike)  
RL Report Limit  
MDL Method Detection Limit

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Laboratories

## CHAIN OF CUSTODY RECORD

Page 1 of 1

Client: COGCC

### NOTES:

1) Ensure proper container packaging.

Contact: ARTHUR KOEPEL

2) Ship samples promptly following collection.

Address: 1120 LINCOLN STREET ST 801

3) Designate Sample Reject Disposition.

Phone Number: 303-894-2108 x 5148

PO# ARTHUR KOEPEL

Email: arthur.koepel@state.co.us

Project Name: ARENS WATERWELL Samplers Signature: [Signature]

### Table 1. - Matrix Type

1 = Surface Water, 2 = Ground Water  
3 = Soil/Sediment, 4 = Prod. W., 5 = Oil  
6 = Waste, 7 = Other (Specify) \_\_\_\_\_

FOR GAL USE ONLY

GAL JOB #  
1312-117

Lab Name: Green Analytical Laboratories

(970) 247-4220 FAX (970) 247-4227

Analyses Required

Address: 75 Suttle Street, Durango, CO 81303

www.greenanalytical.com

Sample ID	Date	Time	Collected by: (Init.)	Matrix Type From Table 1	No. of Containers	Sample Filtered ? Y/N	Miscellaneous					Unpreserved (Ice Only)	Preservative(s)				Other (Specify)	Analyses Required	Comments	
1. Areus	12/16/13	1105			2	3						X								#18 14.9°C on ice
2. WATER Well					4	2	4													
3. 121613-L1																				Facility # 207134
4. Complaint #																				TELINTU
5. 200398550																				
6.																				
7.																				
8.																				
9.																				
10.																				
Relinquished by: <u>[Signature]</u>	Date: <u>12/16/13</u>	Time: <u>1212</u>	Received by: <u>[Signature]</u>	Date: <u>12/16/13</u>	Time: <u>1212</u>															
Relinquished by:	Date:	Time:	Received by:	Date:	Time:															
Relinquished by:	Date:	Time:	Received by:	Date:	Time:															

#900#

\* Sample Reject: [ ] Return [ ] Dispose [ ] Store (30 Days)