



75 Suttle Street  
Durango, CO 81303  
970.247.4220 Phone  
970.247.4227 Fax  
[www.greenanalytical.com](http://www.greenanalytical.com)

30 April 2020

Trevor Downing  
Wright Water Engineering  
1666 N Main Ave Suite C  
Durango, CO 81301  
RE: DJR

Enclosed are the results of analyses for samples received by the laboratory on 04/19/20 12:05.  
If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads 'Debbie Zufelt'. The script is cursive and fluid, with the first name 'Debbie' and last name 'Zufelt' clearly legible.

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. All of our certifications can be viewed at <http://greenanalytical.com/certifications/>

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 through the Colorado Department of Public Health and Environment and EPA region 8.



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Wright Water Engineering  
1666 N Main Ave Suite C  
Durango CO, 81301

Project: DJR  
Project Name / Number: [none]  
Project Manager: Trevor Downing

**Reported:**  
04/30/20 16:15

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
WSW1	2004126-01	Water	04/19/20 09:20	04/19/20 12:05	

Green Analytical Laboratories

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

Debbie Zufelt, Reports Manager

Released to Imaging: 7/18/2024 1:10:40 PM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.

Page 2 of 14 2004126 GAL FINAL 04 30 20 1615 04/30/20 16:15:46



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Wright Water Engineering  
1666 N Main Ave Suite C  
Durango CO, 81301

Project: DJR  
Project Name / Number: [none]  
Project Manager: Trevor Downing

Reported:  
04/30/20 16:15

## WSW1

## 2004126-01 (Ground Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
---------	--------	----	-----	-------	----------	----------	--------	-------	---------

## General Chemistry

Alkalinity, Bicarbonate as CaCO <sub>3</sub> *	178	10.0		mg/L	1	04/20/20 14:00	2320 B		VJW
Alkalinity, Carbonate as CaCO <sub>3</sub> *	<10.0	10.0		mg/L	1	04/20/20 14:00	2320 B		VJW
Alkalinity, Hydroxide as CaCO <sub>3</sub> *	<10.0	10.0		mg/L	1	04/20/20 14:00	2320 B		VJW
Alkalinity, Total as CaCO <sub>3</sub> *	178	10.0	7.16	mg/L	1	04/20/20 14:00	2320 B		VJW
Chloride*	1050	200	17.7	mg/L	200	04/29/20 16:50	EPA300.0		AES
Conductivity*	15400	10.0		umho/cm @ 25.0°C	1	04/21/20 08:30	2510 B		VJW
Fluoride*	<20.0	20.0	1.94	mg/L	200	04/29/20 16:50	EPA300.0		AES
pH*	7.47			pH Units	1	04/21/20 08:30	EPA150.1		VJW
Phosphorus, Total	<0.0500	0.0500	0.00904	mg P/L	1	04/22/20 10:37	EPA365.1		LLG
SAR	69.2			No Unit	1	04/29/20 15:05	Calculation		AES
Total Dissolved Solids*	12100	20.0		mg/L	2	04/23/20 11:42	EPA160.1		VJW
Specific Gravity	1.010	0.8000		No Unit	1	04/21/20 10:45	ASTM D1429-03		VJW
Sulfate*	7170	200	30.5	mg/L	200	04/29/20 16:50	EPA300.0		AES

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

Calcium*	188	2.00	0.531	mg/L	20	04/29/20 15:05	EPA200.7		AES
Hardness as CaCO <sub>3</sub>	507	13.2	5.71	mg/L	20	04/29/20 15:05	2340 B		AES
Iron*	1.15	1.00	0.683	mg/L	20	04/29/20 15:05	EPA200.7		AES
Magnesium*	9.23	2.00	1.07	mg/L	20	04/29/20 15:05	EPA200.7		AES
Sodium*	3580	20.0	3.48	mg/L	20	04/29/20 15:05	EPA200.7		AES

## Dissolved Metals by ICP

Aluminum*	<1.00	1.00	0.247	mg/L	20	04/24/20 14:52	EPA200.7		AES
Boron	<6.00	6.00	2.76	mg/L	20	04/24/20 14:52	EPA200.7		AES
Calcium*	169	2.00	0.332	mg/L	20	04/24/20 14:52	EPA200.7		AES
Iron*	<1.00	1.00	0.368	mg/L	20	04/24/20 14:52	EPA200.7		AES
Magnesium*	9.00	2.00	0.470	mg/L	20	04/24/20 14:52	EPA200.7		AES
Potassium*	21.7	20.0	2.60	mg/L	20	04/24/20 14:52	EPA200.7		AES
Silica (SiO <sub>2</sub> )	39.0	21.4	0.708	mg/L	20	04/24/20 14:52	Calculation		AES
Silicon	18.2	10.0	0.331	mg/L	20	04/24/20 14:52	EPA200.7		AES
Sodium*	3410	20.0	2.01	mg/L	20	04/24/20 14:52	EPA200.7		AES
Strontium*	7.20	2.00	0.083	mg/L	20	04/24/20 14:52	EPA200.7		AES

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Wright Water Engineering  
1666 N Main Ave Suite C  
Durango CO, 81301

Project: DJR  
Project Name / Number: [none]  
Project Manager: Trevor Downing

Reported:  
04/30/20 16:15

## WSW1

## 2004126-01 (Ground Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
---------	--------	----	-----	-------	----------	----------	--------	-------	---------

**Dissolved Metals by ICPMS**

Arsenic*	<0.0100	0.0100	0.0022	mg/L	20	04/27/20 13:58	EPA200.8		AES
Barium*	<b>0.0346</b>	0.0100	0.0015	mg/L	20	04/27/20 13:58	EPA200.8		AES
Cadmium*	<0.0020	0.0020	0.0015	mg/L	20	04/27/20 13:58	EPA200.8		AES
Chromium*	<0.0200	0.0200	0.0036	mg/L	20	04/27/20 13:58	EPA200.8		AES
Copper*	<b>0.0131</b>	0.0100	0.0044	mg/L	20	04/27/20 13:58	EPA200.8		AES
Lead*	<0.0100	0.0100	0.0023	mg/L	20	04/27/20 13:58	EPA200.8		AES
Manganese*	<b>0.0848</b>	0.0100	0.0022	mg/L	20	04/27/20 13:58	EPA200.8		AES
Molybdenum*	<0.0100	0.0100	0.0023	mg/L	20	04/27/20 13:58	EPA200.8		AES
Nickel*	<0.0100	0.0100	0.0053	mg/L	20	04/27/20 13:58	EPA200.8		AES
Selenium*	<0.0200	0.0200	0.0106	mg/L	20	04/27/20 13:58	EPA200.8		AES
Zinc*	<0.0400	0.0400	0.0064	mg/L	20	04/27/20 13:58	EPA200.8		AES

**Other**

Iron-Related Bacteria	Low			CFU/mL	1	04/29/20 16:30	Lab Procedure		DJZ
	Aggressivity								
Slime-Forming Bacteria	Low			CFU/mL	1	04/29/20 16:30	Lab Procedure		DJZ
	Aggressivity								
Sulfate-Reducing Bacteria	Low			CFU/mL	1	04/29/20 16:30	Lab Procedure		DJZ
	Aggressivity								

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

Released to Imaging: 7/18/2024 1:10:40 PM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.

Page 4 of 14 2004126 GAL FINAL 04 30 20 1615 04/30/20 16:15:46



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Wright Water Engineering  
1666 N Main Ave Suite C  
Durango CO, 81301

Project: DJR  
Project Name / Number: [none]  
Project Manager: Trevor Downing

Reported:  
04/30/20 16:15

## General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

## Batch B200643 - General Prep - Wet Chem

## Blank (B200643-BLK1)

Prepared &amp; Analyzed: 04/20/20

Alkalinity, Total as CaCO <sub>3</sub>	ND	10.0	mg/L
--	----	------	------

## LCS (B200643-BS1)

Prepared &amp; Analyzed: 04/20/20

Alkalinity, Total as CaCO <sub>3</sub>	97.0	10.0	mg/L	100	97.0	85-115
--	------	------	------	-----	------	--------

## LCS Dup (B200643-BSD1)

Prepared &amp; Analyzed: 04/20/20

Alkalinity, Total as CaCO <sub>3</sub>	100	10.0	mg/L	100	100	85-115	3.05	20
--	-----	------	------	-----	-----	--------	------	----

## Batch B200646 - General Prep - Wet Chem

## Duplicate (B200646-DUP1)

Source: 2004126-01

Prepared: 04/20/20 Analyzed: 04/21/20

Specific Gravity	1.010	0.8000	No Unit	1.010	0.00	20
------------------	-------	--------	---------	-------	------	----

## Batch B200649 - General Prep - Wet Chem

## Blank (B200649-BLK1)

Prepared: 04/21/20 Analyzed: 04/22/20

Phosphorus, Total	ND	0.0500	mg P/L
-------------------	----	--------	--------

## LCS (B200649-BS1)

Prepared: 04/21/20 Analyzed: 04/22/20

Phosphorus, Total	2.67	0.0500	mg P/L	2.50	107	90-110
-------------------	------	--------	--------	------	-----	--------

## LCS Dup (B200649-BSD1)

Prepared: 04/21/20 Analyzed: 04/22/20

Phosphorus, Total	2.69	0.0500	mg P/L	2.50	108	90-110	0.728	20
-------------------	------	--------	--------	------	-----	--------	-------	----

## Batch B200655 - General Prep - Wet Chem

## Duplicate (B200655-DUP1)

Source: 2004126-01

Prepared &amp; Analyzed: 04/21/20

Conductivity	15600	10.0	umho/cm @ 25.0°C	15400	0.903	20
--------------	-------	------	------------------	-------	-------	----

## Reference (B200655-SRM1)

Prepared &amp; Analyzed: 04/21/20

Conductivity	511	10.0	umho/cm @ 25.0°C	491	104	90-110.1
--------------	-----	------	------------------	-----	-----	----------

## Batch B200656 - General Prep - Wet Chem

## Duplicate (B200656-DUP1)

Source: 2004126-01

Prepared &amp; Analyzed: 04/21/20

pH	7.52	pH Units	7.47	0.667	20
----	------	----------	------	-------	----

## Reference (B200656-SRM1)

Prepared &amp; Analyzed: 04/21/20

pH	7.02	pH Units	7.00	100	98.5-101.4
----	------	----------	------	-----	------------

## Batch B200679 - General Prep - Wet Chem

## Blank (B200679-BLK1)

Prepared &amp; Analyzed: 04/23/20

Total Dissolved Solids	ND	10.0	mg/L
------------------------	----	------	------

## Duplicate (B200679-DUP1)

Source: 2004124-06

Prepared &amp; Analyzed: 04/23/20

Total Dissolved Solids	8850	20.0	mg/L	8920	0.788	20
------------------------	------	------	------	------	-------	----

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Wright Water Engineering  
1666 N Main Ave Suite C  
Durango CO, 81301

Project: DJR  
Project Name / Number: [none]  
Project Manager: Trevor Downing

Reported:  
04/30/20 16:15

### General Chemistry - Quality Control (Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

#### Batch B200679 - General Prep - Wet Chem (Continued)

##### Reference (B200679-SRM1)

Prepared &amp; Analyzed: 04/23/20

Total Dissolved Solids	540	10.0	mg/L	570	94.7	85-115
------------------------	-----	------	------	-----	------	--------

#### Batch B200702 - General Prep - Wet Chem

##### Blank (B200702-BLK1)

Prepared: 04/28/20 Analyzed: 04/30/20

Chloride	ND	1.00	mg/L
Fluoride	ND	0.100	mg/L
Sulfate	ND	1.00	mg/L

##### LCS (B200702-BS1)

Prepared: 04/28/20 Analyzed: 04/29/20

Chloride	23.4	1.00	mg/L	25.0	93.5	90-110
Fluoride	2.42	0.100	mg/L	2.50	96.8	90-110
Sulfate	23.4	1.00	mg/L	25.0	93.7	90-110

##### LCS Dup (B200702-BSD1)

Prepared: 04/28/20 Analyzed: 04/29/20

Chloride	24.1	1.00	mg/L	25.0	96.6	90-110	3.24	20
Fluoride	2.51	0.100	mg/L	2.50	100	90-110	3.73	20
Sulfate	24.4	1.00	mg/L	25.0	97.5	90-110	3.96	20

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

Released to Imaging: 7/18/2024 1:10:40 PM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.

Page 6 of 14 2004126 GAL FINAL 04 30 20 1615 04/30/20 16:15:46



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Wright Water Engineering  
1666 N Main Ave Suite C  
Durango CO, 81301

Project: DJR  
Project Name / Number: [none]  
Project Manager: Trevor Downing

Reported:  
04/30/20 16:15

## 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

## Batch B200698 - Total Rec. 200.7/200.8/200.2

## Blank (B200698-BLK1)

Prepared: 04/28/20 Analyzed: 04/29/20

Calcium	ND	0.100	mg/L							
Iron	ND	0.050	mg/L							
Magnesium	ND	0.100	mg/L							
Sodium	ND	1.00	mg/L							

## LCS (B200698-BS1)

Prepared: 04/28/20 Analyzed: 04/29/20

Calcium	4.04	0.100	mg/L	4.00		101	85-115			
Iron	3.94	0.050	mg/L	4.00		98.5	85-115			
Magnesium	20.8	0.100	mg/L	20.0		104	85-115			
Sodium	3.22	1.00	mg/L	3.24		99.3	85-115			

## LCS Dup (B200698-BSD1)

Prepared: 04/28/20 Analyzed: 04/29/20

Calcium	3.96	0.100	mg/L	4.00		99.0	85-115	1.97	20	
Iron	3.83	0.050	mg/L	4.00		95.8	85-115	2.70	20	
Magnesium	20.5	0.100	mg/L	20.0		102	85-115	1.59	20	
Sodium	3.19	1.00	mg/L	3.24		98.6	85-115	0.714	20	

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

Released to Imaging: 7/18/2024 1:10:40 PM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Wright Water Engineering  
1666 N Main Ave Suite C  
Durango CO, 81301

Project: DJR  
Project Name / Number: [none]  
Project Manager: Trevor Downing

Reported:  
04/30/20 16:15

## Dissolved Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

## Batch B200630 - Diss. 200.7/200.8

## Blank (B200630-BLK1)

Prepared: 04/17/20 Analyzed: 04/24/20

Aluminum	ND	0.050	mg/L
Boron	ND	0.300	mg/L
Calcium	ND	0.100	mg/L
Iron	ND	0.050	mg/L
Magnesium	ND	0.100	mg/L
Potassium	ND	1.00	mg/L
Silicon	ND	0.500	mg/L
Sodium	ND	1.00	mg/L
Strontium	ND	0.100	mg/L

## LCS (B200630-BS1)

Prepared: 04/17/20 Analyzed: 04/24/20

Aluminum	4.83	0.050	mg/L	5.00	96.6	85-115
Boron	4.84	0.300	mg/L	5.00	96.8	85-115
Calcium	4.77	0.100	mg/L	5.00	95.4	85-115
Iron	4.55	0.050	mg/L	5.00	91.0	85-115
Magnesium	24.2	0.100	mg/L	25.0	96.9	85-115
Potassium	9.63	1.00	mg/L	10.0	96.3	85-115
Silicon	4.88	0.500	mg/L	5.00	97.6	85-115
Sodium	4.02	1.00	mg/L	4.05	99.2	85-115
Strontium	4.74	0.100	mg/L	5.00	94.8	85-115

## LCS Dup (B200630-BSD1)

Prepared: 04/17/20 Analyzed: 04/24/20

Aluminum	4.84	0.050	mg/L	5.00	96.8	85-115	0.207	20
Boron	4.90	0.300	mg/L	5.00	97.9	85-115	1.15	20
Calcium	4.77	0.100	mg/L	5.00	95.4	85-115	0.0238	20
Iron	4.56	0.050	mg/L	5.00	91.2	85-115	0.241	20
Magnesium	24.3	0.100	mg/L	25.0	97.1	85-115	0.244	20
Potassium	9.76	1.00	mg/L	10.0	97.6	85-115	1.30	20
Silicon	4.88	0.500	mg/L	5.00	97.7	85-115	0.104	20
Sodium	4.04	1.00	mg/L	4.05	99.7	85-115	0.544	20
Strontium	4.80	0.100	mg/L	5.00	95.9	85-115	1.11	20

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.





dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Wright Water Engineering  
1666 N Main Ave Suite C  
Durango CO, 81301

Project: DJR  
Project Name / Number: [none]  
Project Manager: Trevor Downing

Reported:  
04/30/20 16:15

## Dissolved Metals by ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

## Batch B200685 - Diss. 200.7/200.8

## Blank (B200685-BLK1)

Prepared: 04/24/20 Analyzed: 04/27/20

Arsenic	ND	0.0005	mg/L
Barium	ND	0.0005	mg/L
Cadmium	ND	0.0001	mg/L
Chromium	ND	0.0010	mg/L
Copper	ND	0.0005	mg/L
Lead	ND	0.0005	mg/L
Manganese	ND	0.0005	mg/L
Molybdenum	ND	0.0005	mg/L
Nickel	ND	0.0005	mg/L
Selenium	ND	0.0010	mg/L
Zinc	ND	0.0020	mg/L

## LCS (B200685-BS1)

Prepared: 04/24/20 Analyzed: 04/27/20

Arsenic	0.0504	0.0005	mg/L	0.0500	101	85-115
Barium	0.0513	0.0005	mg/L	0.0500	103	85-115
Cadmium	0.0525	0.0001	mg/L	0.0500	105	85-115
Chromium	0.0507	0.0010	mg/L	0.0500	101	85-115
Copper	0.0533	0.0005	mg/L	0.0500	107	85-115
Lead	0.0540	0.0005	mg/L	0.0500	108	85-115
Manganese	0.0534	0.0005	mg/L	0.0500	107	85-115
Molybdenum	0.0529	0.0005	mg/L	0.0500	106	85-115
Nickel	0.0512	0.0005	mg/L	0.0500	102	85-115
Selenium	0.261	0.0010	mg/L	0.250	104	85-115
Zinc	0.0517	0.0020	mg/L	0.0500	103	85-115

## LCS Dup (B200685-BS1)

Prepared: 04/24/20 Analyzed: 04/27/20

Arsenic	0.0490	0.0005	mg/L	0.0500	98.1	85-115	2.66	20
Barium	0.0518	0.0005	mg/L	0.0500	104	85-115	0.878	20
Cadmium	0.0521	0.0001	mg/L	0.0500	104	85-115	0.876	20
Chromium	0.0522	0.0010	mg/L	0.0500	104	85-115	2.88	20
Copper	0.0531	0.0005	mg/L	0.0500	106	85-115	0.473	20
Lead	0.0549	0.0005	mg/L	0.0500	110	85-115	1.79	20
Manganese	0.0535	0.0005	mg/L	0.0500	107	85-115	0.196	20
Molybdenum	0.0520	0.0005	mg/L	0.0500	104	85-115	1.90	20
Nickel	0.0522	0.0005	mg/L	0.0500	104	85-115	1.95	20
Selenium	0.254	0.0010	mg/L	0.250	102	85-115	2.65	20
Zinc	0.0531	0.0020	mg/L	0.0500	106	85-115	2.64	20

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Wright Water Engineering  
1666 N Main Ave Suite C  
Durango CO, 81301

Project: DJR  
Project Name / Number: [none]  
Project Manager: Trevor Downing

**Reported:**  
04/30/20 16:15

### 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

Green Analytical Laboratories

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

Debbie Zufelt, Reports Manager

Released to Imaging: 7/18/2024 1:10:40 PM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



**(970) 247-4220**  
**Fax: (970) 247-4227**

jenna.emerick@greenanalytical.com or  
dzufelt@greenanalytical.com  
75 Suttle St Durango, CO 81303

FORM-006  
COC - Revision 6.0

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

## Project Information

### Wright Water Engineering

1666 N Main Ave Suite C

Durango, CO 81301

Laboratory PM: Debbie Zufelt

Phone:(970) 259-7411

4/20/2020

Fax:-

---

Project Name: DJR  
Project Number: DJR  
Client PM: Trevor Downing  
Comments:

---

Analysis	Comment
----------	---------

---

Alkalinity, Bicarbonate

Alkalinity, Carbonate

Alkalinity, Hydroxide

Alkalinity, Total

Aluminum Dissolved by ICP

Arsenic Dissolved by ICPMS

Bacteria - IRB

Bacteria - SLYM

Bacteria - SRB

Barium Dissolved by ICPMS

Boron Dissolved by ICP

Cadmium Dissolved by ICPMS

Calcium Dissolved by ICP

Chloride by IC

Chromium Dissolved by ICPMS

Conductivity

Copper Dissolved by ICPMS

Fluoride by IC

Hardness, 200.2 Metals

Iron 200.2 by ICP

Iron Dissolved by ICP

Lead Dissolved by ICPMS

Magnesium Dissolved by ICP

Manganese Dissolved by ICPMS

Molybdenum Dissolved by ICPM

Nickel Dissolved by ICPMS

pH

Phosphate as P, Total by Lachat

Potassium Dissolved by ICP

SAR Suite - Total Recoverable

Selenium Dissolved by ICPMS

Silica Dissolved by ICP Package

Sodium 200.2 by ICP

Sodium Dissolved by ICP

Solids, Total Dissolved (TDS)

Specific Gravity

**Project Information****Wright Water Engineering**

1666 N Main Ave Suite C

Durango, CO 81301

Laboratory PM: Debbie Zufelt

Phone:(970) 259-7411

4/20/2020

Fax:-

---

Project Name: DJR  
Project Number: DJR  
Client PM: Trevor Downing  
Comments:

Analysis	Comment
Strontium Dissolved by ICP	
Sulfate by IC	
Zinc Dissolved by ICPMS	
<b>Hardness, 200.2 Metals subanalyses:</b>	
Calcium 200.2 by ICP	
Magnesium 200.2 by ICP	
<b>SAR Suite - Total Recoverable subanalyses:</b>	
SAR	
<b>Silica Dissolved by ICP Package subanalyses:</b>	
Silicon Dissolved by ICP	

---



Laboratory Sample ID: 2004-126

Start Date: 04/19/20

Sample Name: WSW1

BART Type :

APB

Purple

(Acid Producing Bacteria )

Time Lag (days)	1	2	3	4	5	6	7	8	9	10
Approx. Population	475,000	82,000	14000	4500	450	75	10	< 2	n/a	n/a
Reaction Code										

IRB

Red

(Iron Related Bacteria)

	04/20	04/21	04/22	04/23	04/24	04/25	04/26	04/27	04/28	04/29
Time Lag (days)	1	2	3	4	5	6	7	8	9	10
Approx. Population	570,000	140,000	35,000	9000	2200	500	150	25	8	< 1
Reaction Code	A	A	A	A	A	A	A	A	A	A

SLYM

Green

(Slime Forming Bacteria)

	04/20	04/21	04/22	04/23	04/24	04/25	04/26	04/27	04/28	04/29
Time Lag (days)	1	2	3	4	5	6	7	8	9	10
Approx. Population	1,750,000	440,000	67,000	13,000	2500	500	100	< 20	n/a	n/a
Reaction Code	A	A	A	A	A	A	A	A	A	A

SRB

Black

(Sulfate Reducing Bacteria)

	04/20	04/21	04/22	04/23	04/24	04/25	04/26	04/27	04/28	04/29
Time Lag (days)	1	2	3	4	5	6	7	8	9	10
Approx. Population	2,200,000	500,000	115,000	27,000	6,000	1400	325	75	20	< 5
Reaction Code	A	A	A	A	A	A	A	A	A	A

Aggressivity:	High	Medium	Low
---------------	------	--------	-----

Reaction Code Summary: APB  
Purple

ABSENT = A

IRB

FO - Foam  
BR - Brown Ring  
BG - Brown Gel  
BC - Brown Clouds  
GC - Green Cloudy  
RC - Red Cloudy  
CL - Cloudy  
BL - Black

SLYM

DS - Dense Slime  
SR - Slime Ring  
CL - Cloudy  
CP - Cloudy Layered Plates  
PB - Pale Blue Glowing  
BL - Blackened Liquid  
TH - Thread Like Strands

SRB

BB - Black Base  
BT - Black Ball/Top  
BT/BB - Black Top & Base  
Cloudy

\*n/a - Not Aggressive







Report to:

Jeff Blagg



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Enduring Resources, LLC

Project Name: Alamita Line Release

Work Order: E405155

Job Number: 17065-0017

Received: 5/10/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
5/13/24

5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.



Date Reported: 5/13/24



Jeff Blagg  
6300 S Syracuse Way Suite 525  
Centennial, CO 80111

Project Name: Alamita Line Release  
Workorder: E405155  
Date Received: 5/10/2024 1:51:00PM

Jeff Blagg,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/10/2024 1:51:00PM, under the Project Name: Alamita Line Release.

The analytical test results summarized in this report with the Project Name: Alamita Line Release apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

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

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**  
Laboratory Technical Representative  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**Michelle Golzaes**  
Client Representative  
Office: 505-421-LABS(5227)  
Cell: 505-947-8222  
[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

## Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
Source Grab	5
Terminus Grab	6
Terminus + 10' Grab	7
Mid Point Grab	8
Upgradient Background Grab	9
QC Summary Data	10
QC - Anions by EPA 300.0/9056A	10
Definitions and Notes	11
Chain of Custody etc.	12

Sample Summary

Enduring Resources, LLC	Project Name:	Alamita Line Release	Reported:  05/13/24 13:56
6300 S Syracuse Way Suite 525	Project Number:	17065-0017	
Centennial CO, 80111	Project Manager:	Jeff Blagg	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Source Grab	E405155-01A	Solid	05/10/24	05/10/24	Glass Jar, 2 oz.
Terminus Grab	E405155-02A	Solid	05/10/24	05/10/24	Glass Jar, 2 oz.
Terminus + 10' Grab	E405155-03A	Solid	05/10/24	05/10/24	Glass Jar, 2 oz.
Mid Point Grab	E405155-04A	Solid	05/10/24	05/10/24	Glass Jar, 2 oz.
Upgradient Background Grab	E405155-05A	Solid	05/10/24	05/10/24	Glass Jar, 2 oz.

Sample Data

Enduring Resources, LLC	Project Name:	Alamita Line Release	<b>Reported:</b> 5/13/2024 1:56:38PM
6300 S Syracuse Way Suite 525	Project Number:	17065-0017	
Centennial CO, 80111	Project Manager:	Jeff Blagg	

Source Grab

E405155-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2419163	
Chloride	111	20.0	1	05/10/24	05/10/24	



Sample Data

Enduring Resources, LLC	Project Name:	Alamita Line Release	<b>Reported:</b> 5/13/2024 1:56:38PM
6300 S Syracuse Way Suite 525	Project Number:	17065-0017	
Centennial CO, 80111	Project Manager:	Jeff Blagg	

Terminus Grab

E405155-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2419163	
Chloride	129	20.0	1	05/10/24	05/10/24	



Sample Data

Enduring Resources, LLC	Project Name:	Alamita Line Release	<b>Reported:</b> 5/13/2024 1:56:38PM
6300 S Syracuse Way Suite 525	Project Number:	17065-0017	
Centennial CO, 80111	Project Manager:	Jeff Blagg	

Terminus + 10' Grab

E405155-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2419163	
Chloride	ND	20.0	1	05/10/24	05/10/24	



Sample Data

Enduring Resources, LLC	Project Name:	Alamita Line Release	<b>Reported:</b> 5/13/2024 1:56:38PM
6300 S Syracuse Way Suite 525	Project Number:	17065-0017	
Centennial CO, 80111	Project Manager:	Jeff Blagg	

Mid Point Grab

E405155-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2419163	
Chloride	65.6	20.0	1	05/10/24	05/10/24	



Sample Data

Enduring Resources, LLC	Project Name:	Alamita Line Release	<b>Reported:</b> 5/13/2024 1:56:38PM
6300 S Syracuse Way Suite 525	Project Number:	17065-0017	
Centennial CO, 80111	Project Manager:	Jeff Blagg	

Upgradient Background Grab

E405155-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2419163	
Chloride	ND	20.0	1	05/10/24	05/10/24	





QC Summary Data

Enduring Resources, LLC	Project Name:	Alamita Line Release	Reported:
6300 S Syracuse Way Suite 525	Project Number:	17065-0017	
Centennial CO, 80111	Project Manager:	Jeff Blagg	5/13/2024 1:56:38PM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2419163-BLK1)					Prepared: 05/10/24 Analyzed: 05/10/24				
Chloride	ND	20.0							
LCS (2419163-BS1)					Prepared: 05/10/24 Analyzed: 05/10/24				
Chloride	249	20.0	250		99.6	90-110			
LCS Dup (2419163-BSD1)					Prepared: 05/10/24 Analyzed: 05/10/24				
Chloride	254	20.0	250		102	90-110	1.93	20	

QC Summary Report Comment:  
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.  
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Enduring Resources, LLC	Project Name:	Alamita Line Release	
6300 S Syracuse Way Suite 525	Project Number:	17065-0017	Reported:
Centennial CO, 80111	Project Manager:	Jeff Blagg	05/13/24 13:56

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

## Chain of Custody

Page 1 of 1

Client Information				Invoice Information		Lab Use Only		TAT		State			
Client: <u>ENDURING RESOURCES</u>				Company: <u>ENDURING</u>		Lab WO# <u>E405155</u> Job Number <u>17065-0017</u>		1D <input checked="" type="checkbox"/> 2D <input type="checkbox"/> 3D <input type="checkbox"/> Std <input type="checkbox"/>		NM <input checked="" type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> TX <input type="checkbox"/> NM <input checked="" type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> TX <input type="checkbox"/>			
Project Name: <u>ALAMITA LINE RELEASE</u>				Address:									
Project Manager: <u>J. BLAGG</u>				City, State, Zip:									
Address:				Phone:									
City, State, Zip:				Email:									
Phone: <u>505-320-1103</u>				Miscellaneous: <u>BILL TO PROJECT NAME</u>									
Email: <u>JEFF BLAGG</u>													

  

Sample Information						Analysis and Method										EPA Program		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg	SDWA	CWA	RCRA
0938	5/10/2024	SOIL	1	SOURCE GRAB		1					X							
1001				TERMINUS GRAB		2												
1004				TERMINUS + 10' GRAB		3												
1016				MID POINT GRAB		4												
1024				UPGRADIENT BACKGROUND GRAB		5												

  

**Additional Instructions:**

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: JH Blagg

Relinquished by: (Signature) <u>JH Blagg</u>	Date <u>5/10/2024</u>	Time <u>1351</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>5/10/24</u>	Time <u>1351</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on the same day.

Lab Use Only

Received on ice: Y / N

T1 \_\_\_\_\_ T2 \_\_\_\_\_ T3 \_\_\_\_\_

AVG Temp °C 4

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other \_\_\_\_\_

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



# envirotech

## Envirotech Analytical Laboratory

Printed: 5/10/2024 2:04:19PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Enduring Resources, LLC	Date Received:	05/10/24 13:51	Work Order ID:	E405155
Phone:	(505) 320-1183	Date Logged In:	05/10/24 13:59	Logged In By:	Angelina Pineda
Email:	jeffcblagg@aol.com	Due Date:	05/13/24 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Jeff BlaggComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico  
Energy, Minerals and Natural Resources  
Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

CONDITIONS  
  
Action 365347

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 365347
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	7/18/2024