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23 May 2023

Bruce Smith
Western Water & Land, Inc.
743 Horizon Ct, Suite 330
Grand Junction, CO 81506
RE: Rule 615

Enclosed are the results of analyses for samples received by the laboratory on 04/20/23 10:35. This data replaces the previous report (See case narrative). The data to follow was performed, in whole or in part, by Green Analytical Laboratories. Any data that was performed by a subcontract laboratory is included within the GAL report, or with an additional report attached.

If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Jeremy D. Allen".

Jeremy D Allen
Laboratory Director

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. TNI Certificate Number: T104704514-23-17

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. TNI Certificate Number: T104704398-23-16



Western Water & Land, Inc.
743 Horizon Ct, Suite 330
Grand Junction CO, 81506

Project: Rule 615
Project Name / Number: GM 245-1
Project Manager: Bruce Smith

Reported:
05/23/23 08:33

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
Hayes Gulch Up	2304247-01	Water	04/19/23 14:05	04/20/23 10:35	
Hayes Gulch Dwn	2304247-02	Water	04/19/23 14:30	04/20/23 10:35	

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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Project Manager: Bruce Smith

Reported:
05/23/23 08:33

This report has been reissued to include some analyses that were accidentally left off of the original report . This replaces the previously issued report dated 2304247 GAL FINAL 05 11 23 1401.

Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Jeremy D. Allen'.

Jeremy D Allen, Laboratory Director

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Project: Rule 615
Project Name / Number: GM 245-1
Project Manager: Bruce Smith

Reported:
05/23/23 08:33

Hayes Gulch Up

2304247-01 (Surface Water)

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

Alkalinity, Total as CaCO3*	315	10.0	6.06	mg/L	5	04/28/23 15:38	2320 B		KRW
Alkalinity, Hydroxide as CaCO3*	<6.06	10.0	6.06	mg/L	5	04/28/23 15:38	2320 B	U	KRW
Alkalinity, Carbonate as CaCO3*	<6.06	10.0	6.06	mg/L	5	04/28/23 15:38	2320 B	U	KRW
Alkalinity, Bicarbonate as CaCO3*	315	10.0	6.06	mg/L	5	04/28/23 15:38	2320 B		KRW
Bromide	<0.0548	0.200	0.0548	mg/L	2	05/08/23 12:09	EPA300.0	U	AWG
Cation/Anion Balance	-2.93	-100	-100	%	1	05/05/23 10:45	Calculation		JDA
Chloride*	9.28	2.00	0.111	mg/L	2	05/08/23 12:09	EPA300.0		AWG
Conductivity*	1260	1.00		umho/cm@25 C	1	04/21/23 16:44	2510 B		KRW
Fluoride*	0.500	0.200	0.0194	mg/L	2	05/08/23 12:09	EPA300.0		AWG
Nitrate as N*	1.80	0.020	0.008	mg/L	1	05/04/23 16:37	EPA300.0	H2	AES
Nitrate+Nitrite as N by IC	1.80	0.0400	0.0119	mg/L	1	05/04/23 16:37	EPA300.0		AES
Nitrite as N*	<0.004	0.020	0.004	mg/L	1	05/04/23 16:37	EPA300.0	H2, U	AES
pH*	8.28			pH Units	1	04/21/23 16:44	EPA150.1	H4	KRW
pH Temperature, degrees C	16.6			pH Units	1	04/21/23 16:44	EPA150.1	H4	KRW
Phosphorus, Total	<0.0245	0.0500	0.0245	mg P/L	1	05/05/23 15:25	EPA365.1	Q3, U	AWG
Sulfate*	445	10.0	1.24	mg/L	10	05/09/23 00:20	EPA300.0		AWG
Total Dissolved Solids*	900	10.0		mg/L	1	04/26/23 17:04	EPA160.1		CAI

Dissolved Metals by ICP

Boron	<0.306	1.50	0.306	mg/L	5	05/02/23 21:18	EPA200.7	U	AES
Calcium*	72.6	0.500	0.309	mg/L	5	05/02/23 21:17	EPA200.7		AES
Iron*	<0.076	0.250	0.076	mg/L	5	05/02/23 21:18	EPA200.7	U	AES
Magnesium*	61.0	0.500	0.176	mg/L	5	05/02/23 21:18	EPA200.7		AES
Potassium*	3.90	5.00	0.519	mg/L	5	05/02/23 21:18	EPA200.7	J	AES
Silicon	7.92	2.50	0.381	mg/L	5	05/02/23 21:18	EPA200.7		AES
Sodium*	115	5.00	2.05	mg/L	5	05/02/23 21:17	EPA200.7		AES
Strontium*	1.61	0.500	0.085	mg/L	5	05/02/23 21:17	EPA200.7		AES

Dissolved Metals by ICPMS

Barium*	0.0616	0.0025	0.0011	mg/L	5	05/01/23 16:29	EPA200.8		AES
Manganese*	0.0034	0.0025	0.0009	mg/L	5	05/01/23 16:29	EPA200.8		AES
Selenium*	0.0106	0.0050	0.0018	mg/L	5	05/01/23 16:29	EPA200.8		AES

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Jeremy D Allen, Laboratory Director

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Project: Rule 615
Project Name / Number: GM 245-1
Project Manager: Bruce Smith

Reported:
05/23/23 08:33

Hayes Gulch Up

2304247-01 (Surface Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<295	1000	295	ug/L	0.1	04/24/23 19:38	8015B	U	MS
DRO >C10-C28*	<670	1000	670	ug/L	0.1	04/24/23 19:38	8015B	U	MS
EXT DRO >C28-C36	<670	1000	670	ug/L	0.1	04/24/23 19:38	8015B	U	MS
Surrogate: 1-Chlorooctane			79.8 %	48.8-131		04/24/23 19:38	8015B		MS
Surrogate: 1-Chlorooctadecane			84.7 %	60.1-141		04/24/23 19:38	8015B		MS

VOLATILES BY GC/MS

Benzene*	<0.09	0.5	0.09	ug/L	1	04/28/23 16:27	8260B	U	MS
Toluene*	<0.07	0.5	0.07	ug/L	1	04/28/23 16:27	8260B	U	MS
Ethylbenzene*	<0.09	0.5	0.09	ug/L	1	04/28/23 16:27	8260B	U	MS
m+p - Xylene*	<0.5	1	0.5	ug/L	1	04/28/23 16:27	8260B	U	MS
o-Xylene*	<0.07	0.5	0.07	ug/L	1	04/28/23 16:27	8260B	U	MS
Total Xylenes*	<0.5	2	0.5	ug/L	1	04/28/23 16:27	8260B	U	MS
1,3,5-Trimethylbenzene	<0.03	0.5	0.03	ug/L	1	04/28/23 16:27	8260B	U	MS
1,2,4-Trimethylbenzene	<0.03	0.5	0.03	ug/L	1	04/28/23 16:27	8260B	U	MS
Naphthalene*	<0.04	0.5	0.04	ug/L	1	04/28/23 16:27	8260B	U	MS
Surrogate: Dibromofluoromethane			109 %	82.4-141		04/28/23 16:27	8260B		MS
Surrogate: Toluene-d8			101 %	87.1-110		04/28/23 16:27	8260B		MS
Surrogate: 4-Bromofluorobenzene			94.2 %	76.4-114		04/28/23 16:27	8260B		MS

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Project: Rule 615
Project Name / Number: GM 245-1
Project Manager: Bruce Smith

Reported:
05/23/23 08:33

Hayes Gulch Dwn

2304247-02 (Surface Water)

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

Alkalinity, Total as CaCO3*	340	10.0	6.06	mg/L	5	04/28/23 15:38	2320 B		KRW
Alkalinity, Hydroxide as CaCO3*	<6.06	10.0	6.06	mg/L	5	04/28/23 15:38	2320 B	U	KRW
Alkalinity, Carbonate as CaCO3*	<6.06	10.0	6.06	mg/L	5	04/28/23 15:38	2320 B	U	KRW
Alkalinity, Bicarbonate as CaCO3*	340	10.0	6.06	mg/L	5	04/28/23 15:38	2320 B		KRW
Bromide	<0.0548	0.200	0.0548	mg/L	2	05/12/23 17:49	EPA300.0	U	AWG
Cation/Anion Balance	-3.08	-100	-100	%	1	05/19/23 16:50	Calculation		JDA
Chloride*	8.56	2.00	0.111	mg/L	2	05/12/23 17:49	EPA300.0		AWG
Conductivity*	1260	1.00		umho/cm@25 C	1	04/21/23 16:44	2510 B		KRW
Fluoride*	0.492	0.200	0.0194	mg/L	2	05/12/23 17:49	EPA300.0		AWG
Nitrate as N*	1.75	0.040	0.015	mg/L	2	05/18/23 12:52	EPA300.0	H2	AES
Nitrate+Nitrite as N by IC	1.75	0.0800	0.0238	mg/L	2	05/18/23 12:52	EPA300.0		AES
Nitrite as N*	<0.008	0.040	0.008	mg/L	2	05/18/23 12:52	EPA300.0	H2, U	AES
pH*	8.30			pH Units	1	04/21/23 16:44	EPA150.1	H4	KRW
pH Temperature, degrees C	16.1			pH Units	1	04/21/23 16:44	EPA150.1	H4	KRW
Phosphorus, Total	<0.0245	0.0500	0.0245	mg P/L	1	05/17/23 16:04	EPA365.1	U	AWG
Sulfate*	429	5.00	0.620	mg/L	5	05/15/23 13:28	EPA300.0		AWG
Total Dissolved Solids*	915	10.0		mg/L	1	04/26/23 17:06	EPA160.1		CAI

Dissolved Metals by ICP

Boron	<0.306	1.50	0.306	mg/L	5	05/02/23 21:25	EPA200.7	U	AES
Calcium*	73.2	0.500	0.309	mg/L	5	05/02/23 21:25	EPA200.7		AES
Iron*	<0.076	0.250	0.076	mg/L	5	05/02/23 21:25	EPA200.7	U	AES
Magnesium*	61.2	0.500	0.176	mg/L	5	05/02/23 21:25	EPA200.7		AES
Potassium*	4.10	5.00	0.519	mg/L	5	05/02/23 21:25	EPA200.7	J	AES
Silicon	7.92	2.50	0.381	mg/L	5	05/02/23 21:25	EPA200.7		AES
Sodium*	116	5.00	2.05	mg/L	5	05/02/23 21:25	EPA200.7		AES
Strontium*	1.63	0.500	0.085	mg/L	5	05/02/23 21:25	EPA200.7		AES

Dissolved Metals by ICPMS

Barium*	0.0581	0.0025	0.0011	mg/L	5	05/01/23 16:30	EPA200.8		AES
Manganese*	0.0033	0.0025	0.0009	mg/L	5	05/01/23 16:30	EPA200.8		AES
Selenium*	0.0098	0.0050	0.0018	mg/L	5	05/01/23 16:30	EPA200.8		AES

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Jeremy D Allen, Laboratory Director

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743 Horizon Ct, Suite 330
Grand Junction CO, 81506

Project: Rule 615
Project Name / Number: GM 245-1
Project Manager: Bruce Smith

Reported:
05/23/23 08:33

Hayes Gulch Dwn

2304247-02 (Surface Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<295	1000	295	ug/L	0.1	04/24/23 20:01	8015B	U	MS
DRO >C10-C28*	<670	1000	670	ug/L	0.1	04/24/23 20:01	8015B	U	MS
EXT DRO >C28-C36	<670	1000	670	ug/L	0.1	04/24/23 20:01	8015B	U	MS
Surrogate: 1-Chlorooctane			79.3 %	48.8-131		04/24/23 20:01	8015B		MS
Surrogate: 1-Chlorooctadecane			84.8 %	60.1-141		04/24/23 20:01	8015B		MS

VOLATILES BY GC/MS

Benzene*	<0.09	0.5	0.09	ug/L	1	04/28/23 16:51	8260B	U	MS
Toluene*	<0.07	0.5	0.07	ug/L	1	04/28/23 16:51	8260B	U	MS
Ethylbenzene*	<0.09	0.5	0.09	ug/L	1	04/28/23 16:51	8260B	U	MS
m+p - Xylene*	<0.5	1	0.5	ug/L	1	04/28/23 16:51	8260B	U	MS
o-Xylene*	<0.07	0.5	0.07	ug/L	1	04/28/23 16:51	8260B	U	MS
Total Xylenes*	<0.5	2	0.5	ug/L	1	04/28/23 16:51	8260B	U	MS
1,3,5-Trimethylbenzene	<0.03	0.5	0.03	ug/L	1	04/28/23 16:51	8260B	U	MS
1,2,4-Trimethylbenzene	<0.03	0.5	0.03	ug/L	1	04/28/23 16:51	8260B	U	MS
Naphthalene*	<0.04	0.5	0.04	ug/L	1	04/28/23 16:51	8260B	U	MS
Surrogate: Dibromofluoromethane			110 %	82.4-141		04/28/23 16:51	8260B		MS
Surrogate: Toluene-d8			101 %	87.1-110		04/28/23 16:51	8260B		MS
Surrogate: 4-Bromofluorobenzene			94.0 %	76.4-114		04/28/23 16:51	8260B		MS

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Project: Rule 615
Project Name / Number: GM 245-1
Project Manager: Bruce Smith

Reported:
05/23/23 08:33

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 B231023 - General Prep - Wet Chem

Duplicate (B231023-DUP1)

Source: 2304247-01 Prepared & Analyzed: 04/21/23

pH	8.28		pH Units		8.28			0.00	20	
pH Temperature, degrees C	16.7		pH Units		16.6			0.601	200	

Reference (B231023-SRM1)

Prepared & Analyzed: 04/21/23

pH	6.97		pH Units	7.00		99.6	98.57-101.42			
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Batch B231025 - General Prep - Wet Chem

Duplicate (B231025-DUP1)

Source: 2304247-01 Prepared & Analyzed: 04/21/23

Conductivity	1250	1.00	umho/cm@2 5C		1260			0.239	20	
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Reference (B231025-SRM1)

Prepared & Analyzed: 04/21/23

Conductivity	1000	1.00	umho/cm@2 5C	1000		100	90-110			
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Batch B231043 - General Prep - Wet Chem

Blank (B231043-BLK1)

Prepared & Analyzed: 04/26/23

Total Dissolved Solids	ND	10.0	mg/L							U
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Duplicate (B231043-DUP1)

Source: 2304222-01 Prepared & Analyzed: 04/26/23

Total Dissolved Solids	1180	10.0	mg/L		1170			1.26	20	
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Reference (B231043-SRM1)

Prepared & Analyzed: 04/26/23

Total Dissolved Solids	355	10.0	mg/L	370		96.0	85-115			
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Batch B231084 - General Prep - Wet Chem

Blank (B231084-BLK1)

Prepared & Analyzed: 04/28/23

Alkalinity, Bicarbonate as CaCO3	ND	10.0	mg/L							U
Alkalinity, Carbonate as CaCO3	ND	10.0	mg/L							U
Alkalinity, Hydroxide as CaCO3	ND	10.0	mg/L							U
Alkalinity, Total as CaCO3	ND	10.0	mg/L							U

LCS (B231084-BS1)

Prepared & Analyzed: 04/28/23

Alkalinity, Total as CaCO3	111	10.0	mg/L	100		111	85-115			
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LCS Dup (B231084-BSD1)

Prepared & Analyzed: 04/28/23

Alkalinity, Total as CaCO3	110	10.0	mg/L	100		110	85-115	0.905	20	
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Project: Rule 615
Project Name / Number: GM 245-1
Project Manager: Bruce Smith

Reported:
05/23/23 08:33

**General Chemistry - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD Limit	Notes
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Batch B231084 - General Prep - Wet Chem (Continued)

Matrix Spike (B231084-MS1)		Source: 2304222-01		Prepared & Analyzed: 04/28/23					
Alkalinity, Total as CaCO3	1250	10.0	mg/L	100	1160	95.0	80-120		
Matrix Spike (B231084-MS2)		Source: 2304247-01		Prepared & Analyzed: 04/28/23					
Alkalinity, Total as CaCO3	415	10.0	mg/L	100	315	100	80-120		
Matrix Spike Dup (B231084-MSD1)		Source: 2304222-01		Prepared & Analyzed: 04/28/23					
Alkalinity, Total as CaCO3	1250	10.0	mg/L	100	1160	90.0	80-120	0.401	20
Matrix Spike Dup (B231084-MSD2)		Source: 2304247-01		Prepared & Analyzed: 04/28/23					
Alkalinity, Total as CaCO3	420	10.0	mg/L	100	315	105	80-120	1.20	20

Batch B231149 - Lachat

Blank (B231149-BLK1)		Prepared: 05/04/23 Analyzed: 05/05/23							
Phosphorus, Total	ND	0.0500	mg P/L						U
LCS (B231149-BS1)		Prepared: 05/04/23 Analyzed: 05/05/23							
Phosphorus, Total	2.52	0.0500	mg P/L	2.50		101	90-110		
LCS Dup (B231149-BSD1)		Prepared: 05/04/23 Analyzed: 05/05/23							
Phosphorus, Total	2.48	0.0500	mg P/L	2.50		99.3	90-110	1.48	20
Matrix Spike (B231149-MS1)		Source: 2304333-01		Prepared: 05/04/23 Analyzed: 05/05/23					
Phosphorus, Total	2.53	0.0500	mg P/L	2.50	ND	101	90-110		
Matrix Spike (B231149-MS2)		Source: 2305023-02		Prepared: 05/04/23 Analyzed: 05/05/23					
Phosphorus, Total	2.41	0.0500	mg P/L	2.50	ND	96.4	90-110		
Matrix Spike Dup (B231149-MSD1)		Source: 2304333-01		Prepared: 05/04/23 Analyzed: 05/05/23					
Phosphorus, Total	2.50	0.0500	mg P/L	2.50	ND	99.9	90-110	1.51	20
Matrix Spike Dup (B231149-MSD2)		Source: 2305023-02		Prepared: 05/04/23 Analyzed: 05/05/23					
Phosphorus, Total	2.41	0.0500	mg P/L	2.50	ND	96.4	90-110	0.00415	20

Batch B231153 - IC- Ion Chromatograph

Blank (B231153-BLK1)		Prepared & Analyzed: 05/04/23							
Nitrate as N	ND	0.020	mg/L						U
Nitrite as N	ND	0.020	mg/L						U
LCS (B231153-BS1)		Prepared & Analyzed: 05/04/23							
Nitrate as N	1.05	0.020	mg/L	1.00		105	90-110		
Nitrite as N	0.993	0.020	mg/L	1.00		99.3	90-110		

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Western Water & Land, Inc.
743 Horizon Ct, Suite 330
Grand Junction CO, 81506

Project: Rule 615
Project Name / Number: GM 245-1
Project Manager: Bruce Smith

Reported:
05/23/23 08:33

**General Chemistry - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B231153 - IC- Ion Chromatograph (Continued)

LCS Dup (B231153-BSD1)

Prepared & Analyzed: 05/04/23

Nitrate as N	1.05	0.020	mg/L	1.00		105	90-110	0.219	20	
Nitrite as N	0.998	0.020	mg/L	1.00		99.8	90-110	0.513	20	

Matrix Spike (B231153-MS1)

Source: 2305064-01 Prepared & Analyzed: 05/04/23

Nitrate as N	1.00	0.020	mg/L	1.00	0.009	99.3	85-115			
Nitrite as N	1.02	0.020	mg/L	1.00	ND	102	85-115			

Matrix Spike Dup (B231153-MSD1)

Source: 2305064-01 Prepared & Analyzed: 05/04/23

Nitrate as N	1.05	0.020	mg/L	1.00	0.009	105	85-115	5.05	20	
Nitrite as N	1.07	0.020	mg/L	1.00	ND	107	85-115	5.40	20	

Batch B231166 - IC- Ion Chromatograph

Blank (B231166-BLK1)

Prepared & Analyzed: 05/08/23

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

LCS (B231166-BS1)

Prepared & Analyzed: 05/08/23

Bromide	2.53	0.100	mg/L	2.50		101	90-110			
Chloride	25.4	1.00	mg/L	25.0		101	90-110			
Fluoride	2.55	0.100	mg/L	2.50		102	90-110			
Sulfate	25.0	1.00	mg/L	25.0		100	90-110			

LCS Dup (B231166-BSD1)

Prepared & Analyzed: 05/08/23

Bromide	2.47	0.100	mg/L	2.50		98.9	90-110	2.16	20	
Chloride	24.8	1.00	mg/L	25.0		99.4	90-110	2.09	20	
Fluoride	2.51	0.100	mg/L	2.50		100	90-110	1.86	20	
Sulfate	24.5	1.00	mg/L	25.0		98.1	90-110	2.12	20	

Matrix Spike (B231166-MS1)

Source: 2304303-01 Prepared & Analyzed: 05/08/23

Bromide	2.54	0.100	mg/L	2.50	0.233	92.1	85-115			
Chloride	53.0	1.00	mg/L	25.0	30.2	91.2	85-115			
Fluoride	3.54	0.100	mg/L	2.50	1.24	92.1	85-115			
Sulfate	69.1	1.00	mg/L	25.0	46.4	90.6	85-115			

Matrix Spike (B231166-MS2)

Source: 2304311-01 Prepared & Analyzed: 05/08/23

Bromide	2.49	0.100	mg/L	2.50	0.0740	96.4	85-115			
Chloride	39.7	1.00	mg/L	25.0	15.8	95.7	85-115			
Fluoride	3.32	0.100	mg/L	2.50	0.902	96.8	85-115			
Sulfate	155	1.00	mg/L	25.0	133	90.1	85-115			

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Western Water & Land, Inc.
743 Horizon Ct, Suite 330
Grand Junction CO, 81506

Project: Rule 615
Project Name / Number: GM 245-1
Project Manager: Bruce Smith

Reported:
05/23/23 08:33

**General Chemistry - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B231166 - IC- Ion Chromatograph (Continued)

Matrix Spike Dup (B231166-MSD1)		Source: 2304303-01		Prepared & Analyzed: 05/08/23						
Bromide	2.65	0.100	mg/L	2.50	0.233	96.5	85-115	4.25	20	
Chloride	54.0	1.00	mg/L	25.0	30.2	95.2	85-115	1.85	20	
Fluoride	3.64	0.100	mg/L	2.50	1.24	95.9	85-115	2.68	20	
Sulfate	70.0	1.00	mg/L	25.0	46.4	94.5	85-115	1.40	20	

Matrix Spike Dup (B231166-MSD2)		Source: 2304311-01		Prepared & Analyzed: 05/08/23						
Bromide	2.58	0.100	mg/L	2.50	0.0740	100	85-115	3.79	20	
Chloride	40.6	1.00	mg/L	25.0	15.8	99.1	85-115	2.13	20	
Fluoride	3.41	0.100	mg/L	2.50	0.902	100	85-115	2.50	20	
Sulfate	156	1.00	mg/L	25.0	133	93.5	85-115	0.538	20	

Batch B231235 - IC- Ion Chromatograph

Blank (B231235-BLK1)		Prepared & Analyzed: 05/12/23								
Bromide	ND	0.100	mg/L							U
Chloride	ND	1.00	mg/L							U
Fluoride	ND	0.100	mg/L							U
Sulfate	ND	1.00	mg/L							U

LCS (B231235-BS1)		Prepared & Analyzed: 05/12/23								
Bromide	2.42	0.100	mg/L	2.50		96.9	90-110			
Chloride	24.3	1.00	mg/L	25.0		97.4	90-110			
Fluoride	2.55	0.100	mg/L	2.50		102	90-110			
Sulfate	24.2	1.00	mg/L	25.0		96.8	90-110			

LCS Dup (B231235-BSD1)		Prepared & Analyzed: 05/12/23								
Bromide	2.41	0.100	mg/L	2.50		96.4	90-110	0.455	20	
Chloride	24.3	1.00	mg/L	25.0		97.3	90-110	0.132	20	
Fluoride	2.55	0.100	mg/L	2.50		102	90-110	0.157	20	
Sulfate	24.1	1.00	mg/L	25.0		96.5	90-110	0.257	20	

Matrix Spike (B231235-MS1)		Source: 2305058-07		Prepared & Analyzed: 05/12/23						
Bromide	2.44	0.100	mg/L	2.50	ND	97.6	85-115			
Chloride	29.1	1.00	mg/L	25.0	4.55	98.3	85-115			
Fluoride	2.59	0.100	mg/L	2.50	0.178	96.5	85-115			
Sulfate	87.1	1.00	mg/L	25.0	63.1	96.3	85-115			

Matrix Spike Dup (B231235-MSD1)		Source: 2305058-07		Prepared & Analyzed: 05/12/23						
Bromide	2.45	0.100	mg/L	2.50	ND	97.8	85-115	0.246	20	
Chloride	29.2	1.00	mg/L	25.0	4.55	98.6	85-115	0.237	20	
Fluoride	2.60	0.100	mg/L	2.50	0.178	96.7	85-115	0.154	20	
Sulfate	87.0	1.00	mg/L	25.0	63.1	95.7	85-115	0.191	20	

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Western Water & Land, Inc.
743 Horizon Ct, Suite 330
Grand Junction CO, 81506

Project: Rule 615
Project Name / Number: GM 245-1
Project Manager: Bruce Smith

Reported:
05/23/23 08:33

**General Chemistry - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B231235 - IC- Ion Chromatograph (Continued)

Batch B231274 - Lachat

Blank (B231274-BLK1)		Prepared: 05/16/23 Analyzed: 05/17/23								
Phosphorus, Total	ND	0.0500	mg P/L							U
LCS (B231274-BS1)		Prepared: 05/16/23 Analyzed: 05/17/23								
Phosphorus, Total	2.48	0.0500	mg P/L	2.50		99.0	90-110			
LCS Dup (B231274-BSD1)		Prepared: 05/16/23 Analyzed: 05/17/23								
Phosphorus, Total	2.46	0.0500	mg P/L	2.50		98.4	90-110	0.661	20	
Matrix Spike (B231274-MS1)		Source: 2305143-01 Prepared: 05/16/23 Analyzed: 05/17/23								
Phosphorus, Total	2.43	0.0500	mg P/L	2.50	ND	97.4	90-110			
Matrix Spike (B231274-MS2)		Source: 2305149-01 Prepared: 05/16/23 Analyzed: 05/17/23								
Phosphorus, Total	5.41	0.250	mg P/L	2.50	2.79	105	90-110			
Matrix Spike Dup (B231274-MSD1)		Source: 2305143-01 Prepared: 05/16/23 Analyzed: 05/17/23								
Phosphorus, Total	2.43	0.0500	mg P/L	2.50	ND	97.3	90-110	0.111	20	
Matrix Spike Dup (B231274-MSD2)		Source: 2305149-01 Prepared: 05/16/23 Analyzed: 05/17/23								
Phosphorus, Total	4.66	0.250	mg P/L	2.50	2.79	74.9	90-110	14.8	20	M2

Batch B231310 - IC- Ion Chromatograph

Blank (B231310-BLK1)		Prepared & Analyzed: 05/18/23								
Nitrate as N	ND	0.020	mg/L							U
Nitrite as N	ND	0.020	mg/L							U
LCS (B231310-BS1)		Prepared & Analyzed: 05/18/23								
Nitrate as N	1.04	0.020	mg/L	1.00		104	90-110			
Nitrite as N	1.01	0.020	mg/L	1.00		101	90-110			
LCS Dup (B231310-BSD1)		Prepared & Analyzed: 05/18/23								
Nitrate as N	1.05	0.020	mg/L	1.00		105	90-110	0.824	20	
Nitrite as N	1.01	0.020	mg/L	1.00		101	90-110	0.00	20	
Matrix Spike (B231310-MS1)		Source: 2304247-02 Prepared & Analyzed: 05/18/23								
Nitrate as N	2.96	0.040	mg/L	1.00	1.75	121	85-115			M1
Nitrite as N	1.37	0.040	mg/L	1.00	ND	137	85-115			M1
Matrix Spike (B231310-MS2)		Source: 2305219-08 Prepared & Analyzed: 05/18/23								
Nitrate as N	7.48	0.200	mg/L	1.00	6.50	98.5	85-115			
Nitrite as N	1.59	0.200	mg/L	1.00	2.32	NR	85-115			M2

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Western Water & Land, Inc.
743 Horizon Ct, Suite 330
Grand Junction CO, 81506

Project: Rule 615
Project Name / Number: GM 245-1
Project Manager: Bruce Smith

Reported:
05/23/23 08:33

**General Chemistry - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B231310 - IC- Ion Chromatograph (Continued)

Matrix Spike Dup (B231310-MSD1)

Source: 2304247-02 Prepared & Analyzed: 05/18/23

Nitrate as N	3.04	0.040	mg/L	1.00	1.75	128	85-115	2.55	20	M1
Nitrite as N	1.39	0.040	mg/L	1.00	ND	139	85-115	1.03	20	M1

Matrix Spike Dup (B231310-MSD2)

Source: 2305219-08 Prepared & Analyzed: 05/18/23

Nitrate as N	7.63	0.200	mg/L	1.00	6.50	113	85-115	1.93	20	
Nitrite as N	1.60	0.200	mg/L	1.00	2.32	NR	85-115	0.691	20	M2

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Western Water & Land, Inc.
743 Horizon Ct, Suite 330
Grand Junction CO, 81506

Project: Rule 615
Project Name / Number: GM 245-1
Project Manager: Bruce Smith

Reported:
05/23/23 08:33

Dissolved Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B231079 - Dissolved ICP

Blank (B231079-BLK1)

Prepared & Analyzed: 05/02/23

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

LCS (B231079-BS1)

Prepared & Analyzed: 05/02/23

Boron	3.75	0.300	mg/L	4.00		93.9	85-115			
Calcium	3.73	0.100	mg/L	4.00		93.3	85-115			
Iron	3.76	0.050	mg/L	4.00		93.9	85-115			
Magnesium	19.5	0.100	mg/L	20.0		97.3	85-115			
Potassium	7.61	1.00	mg/L	8.00		95.1	85-115			
Silicon	3.92	0.500	mg/L	4.00		98.1	85-115			
Sodium	3.13	1.00	mg/L	3.24		96.7	85-115			
Strontium	3.74	0.100	mg/L	4.00		93.4	85-115			

LCS Dup (B231079-BS1)

Prepared & Analyzed: 05/02/23

Boron	3.80	0.300	mg/L	4.00		95.0	85-115	1.19	20	
Calcium	3.75	0.100	mg/L	4.00		93.7	85-115	0.433	20	
Iron	3.78	0.050	mg/L	4.00		94.4	85-115	0.554	20	
Magnesium	19.5	0.100	mg/L	20.0		97.7	85-115	0.405	20	
Potassium	7.64	1.00	mg/L	8.00		95.5	85-115	0.362	20	
Silicon	3.92	0.500	mg/L	4.00		98.0	85-115	0.0920	20	
Sodium	3.17	1.00	mg/L	3.24		97.8	85-115	1.06	20	
Strontium	3.73	0.100	mg/L	4.00		93.3	85-115	0.128	20	

Matrix Spike (B231079-MS1)

Source: 2304288-01

Prepared & Analyzed: 05/02/23

Boron	3.73	0.300	mg/L	4.00	ND	93.2	70-130			
Calcium	46.0	0.100	mg/L	4.00	46.7	NR	70-130			M3
Iron	3.58	0.050	mg/L	4.00	ND	89.5	70-130			
Magnesium	27.2	0.100	mg/L	20.0	9.01	91.0	70-130			
Potassium	8.93	1.00	mg/L	8.00	1.72	90.1	70-130			
Silicon	7.00	0.500	mg/L	4.00	3.56	86.1	70-130			
Sodium	17.7	1.00	mg/L	3.24	15.9	54.7	70-130			M3
Strontium	4.03	0.100	mg/L	4.00	0.494	88.3	70-130			

Matrix Spike Dup (B231079-MS1)

Source: 2304288-01

Prepared & Analyzed: 05/02/23

Boron	3.90	1.50	mg/L	4.00	ND	97.5	70-130	4.51	20	
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743 Horizon Ct, Suite 330
Grand Junction CO, 81506

Project: Rule 615
Project Name / Number: GM 245-1
Project Manager: Bruce Smith

Reported:
05/23/23 08:33

**Dissolved Metals by ICP - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B231079 - Dissolved ICP (Continued)

Matrix Spike Dup (B231079-MSD1) (Continued)

Source: 2304288-01 Prepared & Analyzed: 05/02/23

Calcium	47.7	0.500	mg/L	4.00	46.7	24.1	70-130	3.56	20	M3
Iron	3.55	0.250	mg/L	4.00	ND	88.6	70-130	0.927	20	
Magnesium	27.1	0.500	mg/L	20.0	9.01	90.6	70-130	0.229	20	
Potassium	8.98	5.00	mg/L	8.00	1.72	90.7	70-130	0.513	20	
Silicon	7.08	2.50	mg/L	4.00	3.56	88.0	70-130	1.09	20	
Sodium	17.8	5.00	mg/L	3.24	15.9	57.4	70-130	0.491	20	M3
Strontium	4.03	0.500	mg/L	4.00	0.494	88.5	70-130	0.144	20	

Dissolved Metals by ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B231100 - Dissolved ICPMS

Blank (B231100-BLK1)

Prepared & Analyzed: 05/01/23

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

LCS (B231100-BS1)

Prepared & Analyzed: 05/01/23

Barium	0.0504	0.0005	mg/L	0.0500		101	85-115			
Manganese	0.0496	0.0005	mg/L	0.0500		99.1	85-115			
Selenium	0.252	0.0010	mg/L	0.250		101	85-115			

LCS Dup (B231100-BSD1)

Prepared & Analyzed: 05/01/23

Barium	0.0504	0.0005	mg/L	0.0500		101	85-115	0.106	20	
Manganese	0.0493	0.0005	mg/L	0.0500		98.6	85-115	0.561	20	
Selenium	0.253	0.0010	mg/L	0.250		101	85-115	0.589	20	

Matrix Spike (B231100-MS1)

Source: 2304236-01 Prepared & Analyzed: 05/01/23

Barium	0.0489	0.0005	mg/L	0.0500	ND	97.4	70-130			
Manganese	0.0673	0.0005	mg/L	0.0500	0.0204	93.7	70-130			
Selenium	0.345	0.0010	mg/L	0.250	0.0006	138	70-130			M1

Matrix Spike Dup (B231100-MSD1)

Source: 2304236-01 Prepared & Analyzed: 05/01/23

Barium	0.0483	0.0005	mg/L	0.0500	ND	96.2	70-130	1.18	20	
Manganese	0.0675	0.0005	mg/L	0.0500	0.0204	94.3	70-130	0.415	20	
Selenium	0.349	0.0010	mg/L	0.250	0.0006	139	70-130	1.23	20	M1

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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Western Water & Land, Inc.
743 Horizon Ct, Suite 330
Grand Junction CO, 81506

Project: Rule 615
Project Name / Number: GM 245-1
Project Manager: Bruce Smith

Reported:
05/23/23 08:33

Petroleum Hydrocarbons by GC FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3042101 - General Prep - Organics

Blank (3042101-BLK1)

Prepared & Analyzed: 04/24/23

Surrogate: 1-Chlorooctadecane	4390		ug/L	5000		87.8	60.1-141			
Surrogate: 1-Chlorooctane	3970		ug/L	4960		80.1	48.8-131			
DRO >C10-C28	ND	1000	ug/L							U
EXT DRO >C28-C36	ND	1000	ug/L							U
GRO C6-C10	ND	1000	ug/L							U

LCS (3042101-BS1)

Prepared & Analyzed: 04/24/23

Surrogate: 1-Chlorooctadecane	4510		ug/L	5000		90.2	60.1-141			
Surrogate: 1-Chlorooctane	4820		ug/L	4960		97.2	48.8-131			
DRO >C10-C28	46300	1000	ug/L	50000		92.5	68.8-126			
GRO C6-C10	49300	1000	ug/L	50000		98.6	69.6-126			

LCS Dup (3042101-BSD1)

Prepared & Analyzed: 04/24/23

Surrogate: 1-Chlorooctadecane	4570		ug/L	5000		91.4	60.1-141			
Surrogate: 1-Chlorooctane	4800		ug/L	4960		96.9	48.8-131			
DRO >C10-C28	46700	1000	ug/L	50000		93.4	68.8-126	0.871	20.4	
GRO C6-C10	48800	1000	ug/L	50000		97.6	69.6-126	1.02	16.8	

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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Western Water & Land, Inc.
743 Horizon Ct, Suite 330
Grand Junction CO, 81506

Project: Rule 615
Project Name / Number: GM 245-1
Project Manager: Bruce Smith

Reported:
05/23/23 08:33

VOLATILES BY GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3042515 - Volatiles

Blank (3042515-BLK1)

Prepared: 04/25/23 Analyzed: 04/28/23

1,2,4-Trimethylbenzene	ND	0.5	ug/L							U
1,3,5-Trimethylbenzene	ND	0.5	ug/L							U
<i>Surrogate: 4-Bromofluorobenzene</i>	24.3		ug/L	25.0		97.2	76.4-114			
Benzene	ND	0.5	ug/L							U
<i>Surrogate: Dibromofluoromethane</i>	25.0		ug/L	25.0		100	82.4-141			
Ethylbenzene	ND	0.5	ug/L							U
m+p - Xylene	ND	1	ug/L							U
Naphthalene	ND	0.5	ug/L							U
o-Xylene	ND	0.5	ug/L							U
Toluene	ND	0.5	ug/L							U
<i>Surrogate: Toluene-d8</i>	25.3		ug/L	25.0		101	87.1-110			
Total Xylenes	ND	2	ug/L							U

LCS (3042515-BS1)

Prepared: 04/25/23 Analyzed: 04/28/23

1,2,4-Trimethylbenzene	21	0.5	ug/L	20.0		106	85.2-120			
1,3,5-Trimethylbenzene	21	0.5	ug/L	20.0		106	84.3-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	25.4		ug/L	25.0		102	76.4-114			
Benzene	19	0.5	ug/L	20.0		94.6	85.9-114			
<i>Surrogate: Dibromofluoromethane</i>	24.3		ug/L	25.0		97.2	82.4-141			
Ethylbenzene	20	0.5	ug/L	20.0		102	81.8-127			
m+p - Xylene	42	1	ug/L	40.0		105	72.4-134			
Naphthalene	20	0.5	ug/L	20.0		101	59.3-140			
o-Xylene	21	0.5	ug/L	20.0		104	76.2-135			
Toluene	19	0.5	ug/L	20.0		96.4	78.8-121			
<i>Surrogate: Toluene-d8</i>	25.4		ug/L	25.0		102	87.1-110			
Total Xylenes	63	2	ug/L	60.0		105	74.3-134			

LCS Dup (3042515-BS1)

Prepared: 04/25/23 Analyzed: 04/28/23

1,2,4-Trimethylbenzene	21	0.5	ug/L	20.0		106	85.2-120	0.567	8.94	
1,3,5-Trimethylbenzene	21	0.5	ug/L	20.0		105	84.3-120	0.190	16.5	
<i>Surrogate: 4-Bromofluorobenzene</i>	25.4		ug/L	25.0		102	76.4-114			
Benzene	19	0.5	ug/L	20.0		96.3	85.9-114	1.83	4.16	
<i>Surrogate: Dibromofluoromethane</i>	24.7		ug/L	25.0		99.0	82.4-141			
Ethylbenzene	20	0.5	ug/L	20.0		102	81.8-127	0.0488	4.83	
m+p - Xylene	43	1	ug/L	40.0		107	72.4-134	1.06	5.77	
Naphthalene	20	0.5	ug/L	20.0		97.6	59.3-140	3.03	33.5	
o-Xylene	21	0.5	ug/L	20.0		105	76.2-135	1.10	6.29	
Toluene	19	0.5	ug/L	20.0		96.2	78.8-121	0.156	5.67	

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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Western Water & Land, Inc.
743 Horizon Ct, Suite 330
Grand Junction CO, 81506

Project: Rule 615
Project Name / Number: GM 245-1
Project Manager: Bruce Smith

Reported:
05/23/23 08:33

**VOLATILES BY GC/MS - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3042515 - Volatiles (Continued)

LCS Dup (3042515-BSD1) (Continued)

Prepared: 04/25/23 Analyzed: 04/28/23

Surrogate: Toluene-d8	25.2		ug/L	25.0		101	87.1-110			
Total Xylenes	64	2	ug/L	60.0		106	74.3-134	1.08	5.83	

Notes and Definitions

- U Analyte included in the analysis, but not detected
- Q3 Sample received without proper chemical preservation as requested by the method of analysis.
- M3 Matrix spike recovery did not meet acceptance criteria. Accuracy of the spike is reduced since the analyte concentration in the sample is more than four times the spike level.
- M2 Matrix spike recovery was below laboratory acceptance criteria. Recovery possibly affected by a matrix interference in the sample. The method blank spike recovery was acceptable.
- M1 Matrix spike recovery was above laboratory acceptance criteria.
- J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
- H4 pH analysis performed more than 48 hours after sampling.
- H2 Sample analysis performed past hold time specified by the method.
- 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

Jeremy D Allen, Laboratory Director

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SAMPLE CONDITION RECEIPT FORM

Client Name: Western Water? Land

Work Order # 2304-247

Courier: Fed Ex UPS USPS Client Kangaroo

Custody Seals on Box/Cooler Present: Yes No

Seals Intact: Yes No

Thermometer Used: #2 Samples on ice, cooling process has begun: Yes No

Type of ice: Wet Blue None

Cooler Temp: Observed Temp: 3.7 °C Correction Factor: 0 °C Final Temp: 3.7 °C

* Temp should be above freezing to 6°C

Date/Initials of person examining contents: MPN 4/20/23
Labeled by Initials: _____
(If different than above)

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	4.
Samples arrived within hold time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6. <u>PH</u>
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:	<input type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Dissolved Testing Needed:	<input type="checkbox"/> Yes <input type="checkbox"/> No	11. <u>Diss Metals</u>
Field Filtered: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Sample Labels match COC: -Includes Date/Time/ID	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12. <u>Bottles have a different time than COC</u>
Matrix:	<input checked="" type="radio"/> WT <input type="radio"/> SL <input type="radio"/> OT	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Client Notification/Resolution:

Person Contacted: Alex Kubala

Date/Time: 4/20/23 1234 13 55

Comments/Resolution: We will use the metals for Rule 619 along w/ similar analytes on COC.

I talked to Alex @ 1355. and he said to use bottle times