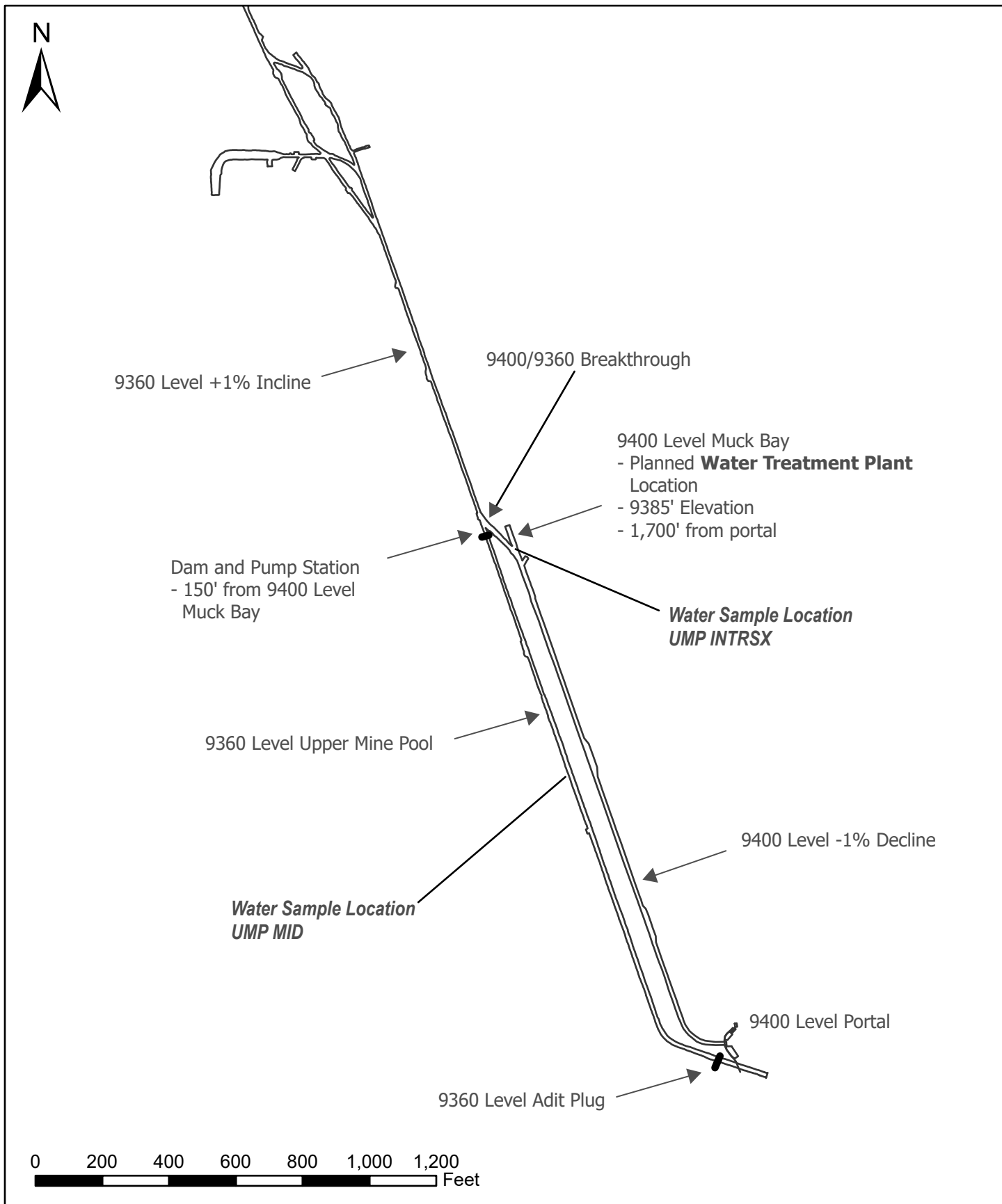


ATTACHMENT 4

Bulldog UMP Water Treatment Plant-Water Sample Location Map

Bulldog UMP Water Quality Data

Bulldog UMP Water Quality Data is from 3 samples taken in October and November 2022



Water Treatment and Sample Locations
Bulldog Exploration - Permitting
 Creede, Mineral County, CO, USA

Drafted By	J. Moore
Approved By	J. Moore
Date	15 August 2023
Scale	1:4,800
Signature	<i>Randy McClure</i>

November 14, 2022

Report to:

Randy McClure
Rio Grande Silver, Inc.
112 E. 12th St.
Creede, CO 81130

cc: Randy McClure

Bill to:

Randy McClure
Rio Grande Silver, Inc.
P.O. Box 610
Creede, CO 81130

Project ID:

ACZ Project ID: L76838

Randy McClure:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on October 24, 2022. This project has been assigned to ACZ's project number, L76838. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L76838. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after December 14, 2022. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.



Sue Webber has reviewed and
approved this report.



Rio Grande Silver, Inc.

Project ID:

Sample ID: 9360 UMP INTRSX 1

ACZ Sample ID: **L76838-01**

Date Sampled: 10/20/22 09:38

Date Received: 10/24/22

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								10/26/22 11:00	mlh
Total Recoverable Digestion	M200.2 ICP-MS								10/28/22 10:15	mfm
Total Recoverable Digestion	M200.2 ICP								10/31/22 12:18	aeH

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.8 ICP-MS	1	0.0235			mg/L	0.005	0.015	11/09/22 13:07	kja
Aluminum, total recoverable	M200.8 ICP-MS	1	0.440			mg/L	0.005	0.015	11/02/22 17:31	mfm
Arsenic, total recoverable	M200.8 ICP-MS	1	0.0251			mg/L	0.0002	0.001	11/02/22 17:31	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	0.00737			mg/L	0.00005	0.00025	11/03/22 14:58	gjl/scp
Calcium, dissolved	M200.7 ICP	1	12.3			mg/L	0.1	0.5	11/10/22 17:21	wtc
Copper, dissolved	M200.8 ICP-MS	1	0.00258			mg/L	0.0008	0.002	11/03/22 14:58	gjl/scp
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	11/10/22 17:21	wtc
Iron, total recoverable	M200.7 ICP	1	0.464			mg/L	0.06	0.15	11/10/22 11:33	wtc
Lead, dissolved	M200.8 ICP-MS	1	0.00357			mg/L	0.0001	0.0005	11/03/22 14:58	gjl/scp
Magnesium, dissolved	M200.7 ICP	1	0.75	B		mg/L	0.2	1	11/10/22 17:21	wtc
Manganese, dissolved	M200.7 ICP	1	0.092			mg/L	0.01	0.05	11/10/22 17:21	wtc
Mercury, total	M1631E, Atomic Fluorescence	2	21.8		*	ng/L	0.6	2	11/01/22 11:04	mlh
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	11/10/22 17:21	wtc
Potassium, dissolved	M200.7 ICP	1	1.10			mg/L	0.2	1	11/10/22 17:21	wtc
Selenium, dissolved	M200.8 ICP-MS	1	0.00771			mg/L	0.0001	0.00025	11/03/22 14:58	gjl/scp
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U	*	mg/L	0.0001	0.0005	11/03/22 14:58	gjl/scp
Sodium, dissolved	M200.7 ICP	1	4.08		*	mg/L	0.2	1	11/10/22 17:21	wtc
Zinc, dissolved	M200.7 ICP	1	0.414			mg/L	0.02	0.05	11/10/22 17:21	wtc

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Fluoride	SM4500F-C	1	0.18	B	*	mg/L	0.15	0.35	11/04/22 18:22	emk
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		34			mg/L	0.2	5	11/11/22 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							11/04/22 7:45	mlh
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	10/27/22 16:39	svm
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	16.4		*	mg/L	1	5	11/04/22 10:47	gkk

Rio Grande Silver, Inc.

Project ID:

Sample ID: 9360 UMP INTRSX 2

ACZ Sample ID: **L76838-02**

Date Sampled: 10/20/22 09:55

Date Received: 10/24/22

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								10/26/22 11:00	mlh
Total Recoverable Digestion	M200.2 ICP-MS								10/28/22 10:15	mfm
Total Recoverable Digestion	M200.2 ICP								10/31/22 12:31	aeH

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.8 ICP-MS	1	0.0113	B		mg/L	0.005	0.015	11/09/22 13:08	kja
Aluminum, total recoverable	M200.8 ICP-MS	1	0.442			mg/L	0.005	0.015	11/02/22 17:33	mfm
Arsenic, total recoverable	M200.8 ICP-MS	1	0.0250			mg/L	0.0002	0.001	11/02/22 17:33	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	0.00756			mg/L	0.00005	0.00025	11/03/22 15:00	gjl/scp
Calcium, dissolved	M200.7 ICP	1	12.3			mg/L	0.1	0.5	11/10/22 17:24	wtc
Copper, dissolved	M200.8 ICP-MS	1	0.00136	B		mg/L	0.0008	0.002	11/03/22 15:00	gjl/scp
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	11/10/22 17:24	wtc
Iron, total recoverable	M200.7 ICP	1	0.444			mg/L	0.06	0.15	11/10/22 11:36	wtc
Lead, dissolved	M200.8 ICP-MS	1	0.00282			mg/L	0.0001	0.0005	11/03/22 15:00	gjl/scp
Magnesium, dissolved	M200.7 ICP	1	0.72	B		mg/L	0.2	1	11/10/22 17:24	wtc
Manganese, dissolved	M200.7 ICP	1	0.096			mg/L	0.01	0.05	11/10/22 17:24	wtc
Mercury, total	M1631E, Atomic Fluorescence	1	19.3		*	ng/L	0.3	1	11/01/22 9:14	mlh
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	11/10/22 17:24	wtc
Potassium, dissolved	M200.7 ICP	1	1.11			mg/L	0.2	1	11/10/22 17:24	wtc
Selenium, dissolved	M200.8 ICP-MS	1	0.00774			mg/L	0.0001	0.00025	11/03/22 15:00	gjl/scp
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U	*	mg/L	0.0001	0.0005	11/03/22 15:00	gjl/scp
Sodium, dissolved	M200.7 ICP	1	4.06		*	mg/L	0.2	1	11/10/22 17:24	wtc
Zinc, dissolved	M200.7 ICP	1	0.300			mg/L	0.02	0.05	11/10/22 17:24	wtc

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Fluoride	SM4500F-C	1	0.17	B	*	mg/L	0.15	0.35	11/04/22 18:28	emk
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		34			mg/L	0.2	5	11/11/22 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							11/04/22 7:47	mlh
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	10/27/22 16:42	svm
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	16.1		*	mg/L	1	5	11/04/22 10:26	gkk

Rio Grande Silver, Inc.

Project ID:

Sample ID: 9360 UMP MID 1

ACZ Sample ID: **L76838-03**

Date Sampled: 10/20/22 10:15

Date Received: 10/24/22

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								10/26/22 11:00	mlh
Total Recoverable Digestion	M200.2 ICP-MS								10/28/22 10:15	mfm
Total Recoverable Digestion	M200.2 ICP								10/31/22 12:45	aeh

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.8 ICP-MS	1	0.0204			mg/L	0.005	0.015	11/09/22 13:10	kja
Aluminum, total recoverable	M200.8 ICP-MS	1	0.0700			mg/L	0.005	0.015	11/02/22 17:34	mfm
Arsenic, total recoverable	M200.8 ICP-MS	1	0.0256			mg/L	0.0002	0.001	11/02/22 17:34	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	0.00333			mg/L	0.00005	0.00025	11/03/22 15:02	gjl/scp
Calcium, dissolved	M200.7 ICP	1	42.0			mg/L	0.1	0.5	11/10/22 17:27	wtc
Copper, dissolved	M200.8 ICP-MS	1	0.00186	B		mg/L	0.0008	0.002	11/03/22 15:02	gjl/scp
Iron, dissolved	M200.7 ICP	1	0.897			mg/L	0.06	0.15	11/10/22 17:27	wtc
Iron, total recoverable	M200.7 ICP	1	6.31			mg/L	0.06	0.15	11/10/22 11:39	wtc
Lead, dissolved	M200.8 ICP-MS	1	0.00132			mg/L	0.0001	0.0005	11/03/22 15:02	gjl/scp
Magnesium, dissolved	M200.7 ICP	1	2.89			mg/L	0.2	1	11/10/22 17:27	wtc
Manganese, dissolved	M200.7 ICP	1	2.81			mg/L	0.01	0.05	11/10/22 17:27	wtc
Mercury, total	M1631E, Atomic Fluorescence	1	1.87		*	ng/L	0.3	1	11/01/22 9:19	mlh
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	11/10/22 17:27	wtc
Potassium, dissolved	M200.7 ICP	1	2.73			mg/L	0.2	1	11/10/22 17:27	wtc
Selenium, dissolved	M200.8 ICP-MS	1	0.00011	B		mg/L	0.0001	0.00025	11/03/22 15:02	gjl/scp
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U	*	mg/L	0.0001	0.0005	11/03/22 15:02	gjl/scp
Sodium, dissolved	M200.7 ICP	1	13.4		*	mg/L	0.2	1	11/10/22 17:27	wtc
Zinc, dissolved	M200.7 ICP	1	1.08			mg/L	0.02	0.05	11/10/22 17:27	wtc

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Fluoride	SM4500F-C	1	0.45		*	mg/L	0.15	0.35	11/04/22 18:33	emk
Hardness as CaCO3 (dissolved)	SM2340B - Calculation		117			mg/L	0.2	5	11/11/22 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							11/04/22 7:49	mlh
Residue, Non-Filterable (TSS) @105C	SM2540D	1	6.0	B	*	mg/L	5	20	10/27/22 16:44	svm
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	139		*	mg/L	5	25	11/04/22 10:51	gkk

Rio Grande Silver, Inc.

Project ID:

Sample ID: 9360 UMP MID 2

ACZ Sample ID: **L76838-04**

Date Sampled: 10/20/22 10:15

Date Received: 10/24/22

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								10/26/22 11:00	mlh
Total Recoverable Digestion	M200.2 ICP-MS								10/28/22 10:15	mfm
Total Recoverable Digestion	M200.2 ICP								10/31/22 12:58	aeH

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.8 ICP-MS	1	0.0180			mg/L	0.005	0.015	11/09/22 13:12	kja
Aluminum, total recoverable	M200.8 ICP-MS	1	0.0709			mg/L	0.005	0.015	11/02/22 17:40	mfm
Arsenic, total recoverable	M200.8 ICP-MS	1	0.0257			mg/L	0.0002	0.001	11/02/22 17:40	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	0.00300			mg/L	0.00005	0.00025	11/03/22 15:05	gjl/scp
Calcium, dissolved	M200.7 ICP	1	42.3			mg/L	0.1	0.5	11/10/22 17:30	wtc
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U	*	mg/L	0.0008	0.002	11/03/22 15:05	gjl/scp
Iron, dissolved	M200.7 ICP	1	0.989			mg/L	0.06	0.15	11/10/22 17:30	wtc
Iron, total recoverable	M200.7 ICP	1	6.16			mg/L	0.06	0.15	11/10/22 11:42	wtc
Lead, dissolved	M200.8 ICP-MS	1	0.00100			mg/L	0.0001	0.0005	11/03/22 15:05	gjl/scp
Magnesium, dissolved	M200.7 ICP	1	2.93			mg/L	0.2	1	11/10/22 17:30	wtc
Manganese, dissolved	M200.7 ICP	1	2.82			mg/L	0.01	0.05	11/10/22 17:30	wtc
Mercury, total	M1631E, Atomic Fluorescence	1	1.95		*	ng/L	0.3	1	11/01/22 9:23	mlh
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	11/10/22 17:30	wtc
Potassium, dissolved	M200.7 ICP	1	2.72			mg/L	0.2	1	11/10/22 17:30	wtc
Selenium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.00025	11/03/22 15:05	gjl/scp
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U	*	mg/L	0.0001	0.0005	11/03/22 15:05	gjl/scp
Sodium, dissolved	M200.7 ICP	1	13.5		*	mg/L	0.2	1	11/10/22 17:30	wtc
Zinc, dissolved	M200.7 ICP	1	1.10			mg/L	0.02	0.05	11/10/22 17:30	wtc

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Fluoride	SM4500F-C	1	0.46		*	mg/L	0.15	0.35	11/04/22 18:37	emk
Hardness as CaCO3 (dissolved)	SM2340B - Calculation		118			mg/L	0.2	5	11/11/22 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							11/04/22 7:52	mlh
Residue, Non-Filterable (TSS) @105C	SM2540D	1	9.0	B	*	mg/L	5	20	10/27/22 16:47	svm
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	136		*	mg/L	5	25	11/04/22 10:51	gkk

Rio Grande Silver, Inc.

Project ID:

Sample ID: TRIP BLANK

ACZ Sample ID: **L76838-05**

Date Sampled: 10/20/22 10:28

Date Received: 10/24/22

Sample Matrix: *Groundwater*

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Mercury, total	M1631E, Atomic Fluorescence	1	<0.3	U	*	ng/L	0.3	1	11/01/22 9:38	mlh


Report Header Explanations

<i>Batch</i>	A distinct set of samples analyzed at a specific time
<i>Found</i>	Value of the QC Type of interest
<i>Limit</i>	Upper limit for RPD, in %.
<i>Lower</i>	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
<i>MDL</i>	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5). Allows for instrument and annual fluctuations.
<i>PCN/SCN</i>	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
<i>PQL</i>	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
<i>QC</i>	True Value of the Control Sample or the amount added to the Spike
<i>Rec</i>	Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)
<i>RPD</i>	Relative Percent Difference, calculation used for Duplicate QC Types
<i>Upper</i>	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
<i>Sample</i>	Value of the Sample of interest

QC Sample Types

<i>AS</i>	Analytical Spike (Post Digestion)	<i>LCSWD</i>	Laboratory Control Sample - Water Duplicate
<i>ASD</i>	Analytical Spike (Post Digestion) Duplicate	<i>LFB</i>	Laboratory Fortified Blank
<i>CCB</i>	Continuing Calibration Blank	<i>LFM</i>	Laboratory Fortified Matrix
<i>CCV</i>	Continuing Calibration Verification standard	<i>LFMD</i>	Laboratory Fortified Matrix Duplicate
<i>DUP</i>	Sample Duplicate	<i>LRB</i>	Laboratory Reagent Blank
<i>ICB</i>	Initial Calibration Blank	<i>MS</i>	Matrix Spike
<i>ICV</i>	Initial Calibration Verification standard	<i>MSD</i>	Matrix Spike Duplicate
<i>ICSAB</i>	Inter-element Correction Standard - A plus B solutions	<i>PBS</i>	Prep Blank - Soil
<i>LCSS</i>	Laboratory Control Sample - Soil	<i>PBW</i>	Prep Blank - Water
<i>LCSSD</i>	Laboratory Control Sample - Soil Duplicate	<i>PQV</i>	Practical Quantitation Verification standard
<i>LCSW</i>	Laboratory Control Sample - Water	<i>SDL</i>	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
L	Target analyte response was below the laboratory defined negative threshold.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

(1)	EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2)	EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3)	EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(4)	EPA SW-846. Test Methods for Evaluating Solid Waste.
(5)	Standard Methods for the Examination of Water and Wastewater.

Comments

(1)	QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2)	Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3)	Animal matrices for Inorganic analyses are reported on an "as received" basis.
(4)	An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
(5)	If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

For a complete list of ACZ's Extended Qualifiers, please click:

<https://acz.com/wp-content/uploads/2019/04/Ext-Qual-List.pdf>

HECLARIO

ACZ Project ID: **L76838**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Aluminum, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG554476													
WG554476ICV	ICV	11/09/22 12:39	MS220930-3	.1		.1004	mg/L	100	90	110			
WG554476ICB	ICB	11/09/22 12:41				U	mg/L		-0.011	0.011			
WG554476LFB	LFB	11/09/22 12:43	MS221101-6	.050065		.0479	mg/L	96	85	115			
L76757-02AS	AS	11/09/22 12:50	MS221101-6	.050065	U	.049	mg/L	98	70	130			
L76757-02ASD	ASD	11/09/22 12:52	MS221101-6	.050065	U	.0494	mg/L	99	70	130	1	20	
L76839-02AS	AS	11/09/22 13:18	MS221101-6	.050065	U	.046	mg/L	92	70	130			
L76839-02ASD	ASD	11/09/22 13:23	MS221101-6	.050065	U	.0516	mg/L	103	70	130	11	20	

Aluminum, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG554139													
WG554139ICV	ICV	11/02/22 16:51	MS220930-3	.1		.1026	mg/L	103	90	110			
WG554139ICB	ICB	11/02/22 16:53				U	mg/L		-0.015	0.015			
WG553814LRB	LRB	11/02/22 16:55				U	mg/L		-0.011	0.011			
WG553814LFB	LFB	11/02/22 16:57	MS221012-7	.050065		.045	mg/L	90	85	115			
L76838-04LFM	LFM	11/02/22 17:42	MS221012-7	.050065	.0709	.1133	mg/L	85	70	130			
L76838-04LFMD	LFMD	11/02/22 17:44	MS221012-7	.050065	.0709	.1126	mg/L	83	70	130	1	20	

Arsenic, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG554139													
WG554139ICV	ICV	11/02/22 16:51	MS220930-3	.05		.04874	mg/L	97	90	110			
WG554139ICB	ICB	11/02/22 16:53				U	mg/L		-0.0006	0.0006			
WG553814LRB	LRB	11/02/22 16:55				U	mg/L		-0.00044	0.00044			
WG553814LFB	LFB	11/02/22 16:57	MS221012-7	.05005		.04434	mg/L	89	85	115			
L76838-04LFM	LFM	11/02/22 17:42	MS221012-7	.05005	.0257	.06871	mg/L	86	70	130			
L76838-04LFMD	LFMD	11/02/22 17:44	MS221012-7	.05005	.0257	.0689	mg/L	86	70	130	0	20	

Cadmium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG554160													
WG554160ICV	ICV	11/03/22 14:25	MS220930-3	.05		.050538	mg/L	101	90	110			
WG554160ICB	ICB	11/03/22 14:28				U	mg/L		-0.00011	0.00011			
WG554160LFB	LFB	11/03/22 14:30	MS221101-6	.05005		.047282	mg/L	94	85	115			
L76836-02AS	AS	11/03/22 14:37	MS221101-6	.05005	.000051	.049449	mg/L	99	70	130			
L76836-02ASD	ASD	11/03/22 14:39	MS221101-6	.05005	.000051	.050132	mg/L	100	70	130	1	20	
L76910-04AS	AS	11/03/22 15:16	MS221101-6	.05005	.00189	.047694	mg/L	92	70	130			
L76910-04ASD	ASD	11/03/22 15:18	MS221101-6	.05005	.00189	.048157	mg/L	92	70	130	1	20	

Calcium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG554708													
WG554708ICV	ICV	11/10/22 16:10	II221025-1	100		101.55	mg/L	102	95	105			
WG554708ICB	ICB	11/10/22 16:16				U	mg/L		-0.3	0.3			
WG554708LFB	LFB	11/10/22 16:29	II221104-3	67.99353		66.51	mg/L	98	85	115			
L76839-01AS	AS	11/10/22 17:43	II221104-3	67.99353	121	180.3	mg/L	87	85	115			
L76839-01ASD	ASD	11/10/22 17:46	II221104-3	67.99353	121	182.1	mg/L	90	85	115	1	20	

HECLARIO

ACZ Project ID: **L76838**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Copper, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG554160													
WG554160ICV	ICV	11/03/22 14:25	MS220930-3	.05		.05302	mg/L	106	90	110			
WG554160ICB	ICB	11/03/22 14:28				U	mg/L		-0.00176	0.00176			
WG554160LFB	LFB	11/03/22 14:30	MS221101-6	.05		.04609	mg/L	92	85	115			
L76836-02AS	AS	11/03/22 14:37	MS221101-6	.05	U	.04376	mg/L	88	70	130			
L76836-02ASD	ASD	11/03/22 14:39	MS221101-6	.05	U	.04577	mg/L	92	70	130	4	20	
L76910-04AS	AS	11/03/22 15:16	MS221101-6	.05	U	.02032	mg/L	41	70	130			M2
L76910-04ASD	ASD	11/03/22 15:18	MS221101-6	.05	U	.02022	mg/L	40	70	130	0	20	M2

Fluoride

SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG554277													
WG554277ICV	ICV	11/04/22 10:56	WC221026-9	2.008		1.84	mg/L	92	90	110			
WG554277ICB	ICB	11/04/22 11:04				U	mg/L		-0.3	0.3			
WG554283													
WG554283ICV	ICV	11/04/22 15:02	WC221104-1	2.008		1.85	mg/L	92	90	110			
WG554283ICB	ICB	11/04/22 15:10				U	mg/L		-0.3	0.3			
WG554283LFB1	LFB	11/04/22 15:19	WC221011-2	5.02		4.6	mg/L	92	90	110			
WG554283LFB2	LFB	11/04/22 17:41	WC221011-2	5.02		4.6	mg/L	92	90	110			
L76836-04AS	AS	11/04/22 17:49	WC221011-2	5.02	.7	5.17	mg/L	89	90	110			M2
L76836-04ASD	ASD	11/04/22 17:53	WC221011-2	5.02	.7	5.12	mg/L	88	90	110	1	20	M2

Iron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG554708													
WG554708ICV	ICV	11/10/22 16:10	II221025-1	2		2.025	mg/L	101	95	105			
WG554708ICB	ICB	11/10/22 16:16				U	mg/L		-0.18	0.18			
WG554708LFB	LFB	11/10/22 16:29	II221104-3	1.0013		.956	mg/L	95	85	115			
L76839-01AS	AS	11/10/22 17:43	II221104-3	1.0013	U	.954	mg/L	95	85	115			
L76839-01ASD	ASD	11/10/22 17:46	II221104-3	1.0013	U	.949	mg/L	95	85	115	1	20	

Iron, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG554612													
WG554612ICV	ICV	11/10/22 10:59	II221025-1	2		1.991	mg/L	100	95	105			
WG554612ICB	ICB	11/10/22 11:05				U	mg/L		-0.18	0.18			
WG553903LRB	LRB	11/10/22 11:18				U	mg/L		-0.132	0.132			
WG553903LFB	LFB	11/10/22 11:21	II221026-8	1.0013		1.014	mg/L	101	85	115			
L76885-01LFM	LFM	11/10/22 11:55	II221026-8	1.0013	U	.996	mg/L	99	70	130			
L76885-01LFMD	LFMD	11/10/22 11:58	II221026-8	1.0013	U	.99	mg/L	99	70	130	1	20	

HECLARIO

ACZ Project ID: **L76838**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG554160													
WG554160ICV	ICV	11/03/22 14:25	MS220930-3	.05		.05089	mg/L	102	90	110			
WG554160ICB	ICB	11/03/22 14:28				U	mg/L		-0.00022	0.00022			
WG554160LFB	LFB	11/03/22 14:30	MS221101-6	.0501		.04707	mg/L	94	85	115			
L76836-02AS	AS	11/03/22 14:37	MS221101-6	.0501	U	.05103	mg/L	102	70	130			
L76836-02ASD	ASD	11/03/22 14:39	MS221101-6	.0501	U	.05163	mg/L	103	70	130	1	20	
L76910-04AS	AS	11/03/22 15:16	MS221101-6	.0501	U	.05137	mg/L	103	70	130			
L76910-04ASD	ASD	11/03/22 15:18	MS221101-6	.0501	U	.05125	mg/L	102	70	130	0	20	

Magnesium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG554708													
WG554708ICV	ICV	11/10/22 16:10	II221025-1	100		100.27	mg/L	100	95	105			
WG554708ICB	ICB	11/10/22 16:16				U	mg/L		-0.6	0.6			
WG554708LFB	LFB	11/10/22 16:29	II221104-3	49.99676		47.99	mg/L	96	85	115			
L76839-01AS	AS	11/10/22 17:43	II221104-3	49.99676	31.6	77.32	mg/L	91	85	115			
L76839-01ASD	ASD	11/10/22 17:46	II221104-3	49.99676	31.6	78.15	mg/L	93	85	115	1	20	

Manganese, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG554708													
WG554708ICV	ICV	11/10/22 16:10	II221025-1	2		1.99	mg/L	100	95	105			
WG554708ICB	ICB	11/10/22 16:16				U	mg/L		-0.03	0.03			
WG554708LFB	LFB	11/10/22 16:29	II221104-3	.499		.493	mg/L	99	85	115			
L76839-01AS	AS	11/10/22 17:43	II221104-3	.499	U	.491	mg/L	98	85	115			
L76839-01ASD	ASD	11/10/22 17:46	II221104-3	.499	U	.492	mg/L	99	85	115	0	20	

Mercury, total

M1631E, Atomic Fluorescence

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG541979													
WG541979ICV1	ICV	05/11/22 11:12	HG220325-4	10		10	ng/L	100	79	121			
WG541979ICB1	ICB	05/11/22 11:17				U	ng/L		-0.501	0.501			
WG553974													
WG553974CCV1	CCV	11/01/22 8:31	HG220913-4	10		10.7	ng/L	107	76.5	123.4			
WG553974CCB1	CCB	11/01/22 8:36				U	ng/L		-0.501	0.501			
WG553974PQV	PQV	11/01/22 8:40	HG220913-6	1		.98	ng/L	98	70	130			
WG553974LFB	LFB	11/01/22 8:45	HG220913-5	2		2.07	ng/L	104	71	125			
WG553974CCV2	CCV	11/01/22 9:28	HG220913-4	10		9.48	ng/L	95	76.5	123.4			
WG553974CCB2	CCB	11/01/22 9:33				U	ng/L		-0.501	0.501			
WG553974CCV3	CCV	11/01/22 10:26	HG220913-4	10		11	ng/L	110	76.5	123.4			
WG553974CCB3	CCB	11/01/22 10:31				U	ng/L		-0.501	0.501			
L76838-01MS	MS	11/01/22 11:09	HG16312X	8	21.8	24.6	ng/L	70	71	125			M3 MH
L76838-01MSD	MSD	11/01/22 11:14	HG16312X	8	21.8	19.92	ng/L	-47	71	125	21	24	M3 MH
WG553974CCV4	CCV	11/01/22 11:19	HG220913-4	10		10.2	ng/L	102	76.5	123.4			
WG553974CCB4	CCB	11/01/22 11:24				U	ng/L		-0.501	0.501			
WG553974CCV5	CCV	11/01/22 12:24	HG220913-4	10		10.4	ng/L	104	76.5	123.4			
WG553974CCB5	CCB	11/01/22 12:29				U	ng/L		-0.501	0.501			

HECLARIO

ACZ Project ID: **L76838**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Nickel, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG554708													
WG554708ICV	ICV	11/10/22 16:10	II221025-1	2		1.9915	mg/L	100	95	105			
WG554708ICB	ICB	11/10/22 16:16				U	mg/L		-0.024	0.024			
WG554708LFB	LFB	11/10/22 16:29	II221104-3	.502		.4818	mg/L	96	85	115			
L76839-01AS	AS	11/10/22 17:43	II221104-3	.502	U	.4775	mg/L	95	85	115			
L76839-01ASD	ASD	11/10/22 17:46	II221104-3	.502	U	.4817	mg/L	96	85	115	1	20	

Potassium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG554708													
WG554708ICV	ICV	11/10/22 16:10	II221025-1	20		19.91	mg/L	100	95	105			
WG554708ICB	ICB	11/10/22 16:16				U	mg/L		-0.6	0.6			
WG554708LFB	LFB	11/10/22 16:29	II221104-3	99.95798		94.71	mg/L	95	85	115			
L76839-01AS	AS	11/10/22 17:43	II221104-3	99.95798	4.31	98.71	mg/L	94	85	115			
L76839-01ASD	ASD	11/10/22 17:46	II221104-3	99.95798	4.31	100.2	mg/L	96	85	115	1	20	

Residue, Non-Filterable (TSS) @105C

SM2540D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG553797													
WG553797PBW	PBW	10/27/22 16:24				U	mg/L		-5	5			
WG553797LCSW	LCSW	10/27/22 16:26	PCN623310	100		89	mg/L	89	80	120			
L76908-02DUP	DUP	10/27/22 16:55			U	5	mg/L				200	10	RA

Selenium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG554160													
WG554160ICV	ICV	11/03/22 14:25	MS220930-3	.05		.05155	mg/L	103	90	110			
WG554160ICB	ICB	11/03/22 14:28				.00011	mg/L		-0.00022	0.00022			
WG554160LFB	LFB	11/03/22 14:30	MS221101-6	.05005		.04754	mg/L	95	85	115			
L76836-02AS	AS	11/03/22 14:37	MS221101-6	.05005	.0005	.05292	mg/L	105	70	130			
L76836-02ASD	ASD	11/03/22 14:39	MS221101-6	.05005	.0005	.05491	mg/L	109	70	130	4	20	
L76910-04AS	AS	11/03/22 15:16	MS221101-6	.05005	U	.04544	mg/L	91	70	130			
L76910-04ASD	ASD	11/03/22 15:18	MS221101-6	.05005	U	.0448	mg/L	90	70	130	1	20	

Silver, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG554160													
WG554160ICV	ICV	11/03/22 14:25	MS220930-3	.02		.01989	mg/L	99	90	110			
WG554160ICB	ICB	11/03/22 14:28				U	mg/L		-0.00022	0.00022			
WG554160LFB	LFB	11/03/22 14:30	MS221101-6	.01		.00872	mg/L	87	85	115			
L76836-02AS	AS	11/03/22 14:37	MS221101-6	.01	U	.00601	mg/L	60	70	130			M2 ZA
L76836-02ASD	ASD	11/03/22 14:39	MS221101-6	.01	U	.00601	mg/L	60	70	130	0	20	M2 ZA
L76910-04AS	AS	11/03/22 15:16	MS221101-6	.01	U	.0025	mg/L	25	70	130			M2 ZA
L76910-04ASD	ASD	11/03/22 15:18	MS221101-6	.01	U	.00242	mg/L	24	70	130	3	20	M2 ZA

HECLARIO

ACZ Project ID: **L76838**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Sodium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG554708													
WG554708ICV	ICV	11/10/22 16:10	II221025-1	100		100.7	mg/L	101	95	105			
WG554708ICB	ICB	11/10/22 16:16				U	mg/L		-0.6	0.6			
WG554708LFB	LFB	11/10/22 16:29	II221104-3	100.0023		94.68	mg/L	95	85	115			
L76839-01AS	AS	11/10/22 17:43	II221104-3	100.0023	403	478.6	mg/L	76	85	115			M3
L76839-01ASD	ASD	11/10/22 17:46	II221104-3	100.0023	403	476.4	mg/L	73	85	115	0	20	M3

Sulfate

D516-02/-07/-11 - TURBIDIMETRIC

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG554269													
WG554269ICB	ICB	11/04/22 9:50				U	mg/L		-3	3			
WG554269ICV	ICV	11/04/22 9:50	WI221101-9	19.54		19.7	mg/L	101	90	110			
WG554269LFB	LFB	11/04/22 10:22	WI220830-3	10		10.1	mg/L	101	90	110			
L76824-02DUP	DUP	11/04/22 10:49			162	161.6	mg/L				0	20	
L76824-03AS	AS	11/04/22 11:39	SO4TURB	10.0000008	2500	2479.8	mg/L	-202	90	110			M3

Zinc, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG554708													
WG554708ICV	ICV	11/10/22 16:10	II221025-1	2		1.946	mg/L	97	95	105			
WG554708ICB	ICB	11/10/22 16:16				U	mg/L		-0.06	0.06			
WG554708LFB	LFB	11/10/22 16:29	II221104-3	.50045		.483	mg/L	97	85	115			
L76839-01AS	AS	11/10/22 17:43	II221104-3	.50045	U	.481	mg/L	96	85	115			
L76839-01ASD	ASD	11/10/22 17:46	II221104-3	.50045	U	.497	mg/L	99	85	115	3	20	

Rio Grande Silver, Inc.

ACZ Project ID: **L76838**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L76838-01	WG554283	Fluoride	SM4500F-C	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG553974	Mercury, total	M1631E, Atomic Fluorescence	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
			M1631E, Atomic Fluorescence	MH	For Method 1631E, matrix spike and matrix spike duplicate are outside method limits, sample should not be reported for compliance purposes. Client may request re-analysis on a dilution.
	WG553797	Residue, Non-Filterable (TSS) @105C	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg
	WG554160	Silver, dissolved	M200.8 ICP-MS	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M200.8 ICP-MS	ZA	Poor recovery for Silver quality control is accepted due to low Silver solubility in samples, digestates, or extracts that do not contain sufficient Hydrochloric acid.
	WG554708	Sodium, dissolved	M200.7 ICP	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG554269	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
L76838-02	WG554283	Fluoride	SM4500F-C	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG553974	Mercury, total	M1631E, Atomic Fluorescence	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
			M1631E, Atomic Fluorescence	MH	For Method 1631E, matrix spike and matrix spike duplicate are outside method limits, sample should not be reported for compliance purposes. Client may request re-analysis on a dilution.
	WG553797	Residue, Non-Filterable (TSS) @105C	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg
	WG554160	Silver, dissolved	M200.8 ICP-MS	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M200.8 ICP-MS	ZA	Poor recovery for Silver quality control is accepted due to low Silver solubility in samples, digestates, or extracts that do not contain sufficient Hydrochloric acid.
	WG554708	Sodium, dissolved	M200.7 ICP	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG554269	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.

Rio Grande Silver, Inc.

ACZ Project ID: **L76838**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L76838-03	WG554283	Fluoride	SM4500F-C	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG553974	Mercury, total	M1631E, Atomic Fluorescence	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
			M1631E, Atomic Fluorescence	MH	For Method 1631E, matrix spike and matrix spike duplicate are outside method limits, sample should not be reported for compliance purposes. Client may request re-analysis on a dilution.
	WG553797	Residue, Non-Filterable (TSS) @105C	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg
	WG554160	Silver, dissolved	M200.8 ICP-MS	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M200.8 ICP-MS	ZA	Poor recovery for Silver quality control is accepted due to low Silver solubility in samples, digestates, or extracts that do not contain sufficient Hydrochloric acid.
	WG554708	Sodium, dissolved	M200.7 ICP	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG554269	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
L76838-04	WG554160	Copper, dissolved	M200.8 ICP-MS	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG554283	Fluoride	SM4500F-C	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG553974	Mercury, total	M1631E, Atomic Fluorescence	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
			M1631E, Atomic Fluorescence	MH	For Method 1631E, matrix spike and matrix spike duplicate are outside method limits, sample should not be reported for compliance purposes. Client may request re-analysis on a dilution.
	WG553797	Residue, Non-Filterable (TSS) @105C	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg
	WG554160	Silver, dissolved	M200.8 ICP-MS	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M200.8 ICP-MS	ZA	Poor recovery for Silver quality control is accepted due to low Silver solubility in samples, digestates, or extracts that do not contain sufficient Hydrochloric acid.
	WG554708	Sodium, dissolved	M200.7 ICP	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG554269	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
L76838-05	WG553974	Mercury, total	M1631E, Atomic Fluorescence	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
			M1631E, Atomic Fluorescence	MH	For Method 1631E, matrix spike and matrix spike duplicate are outside method limits, sample should not be reported for compliance purposes. Client may request re-analysis on a dilution.

Rio Grande Silver, Inc.

ACZ Project ID: **L76838**

No certification qualifiers associated with this analysis

Rio Grande Silver, Inc.

ACZ Project ID: L76838

Date Received: 10/24/2022 13:54

Received By:

Date Printed: 10/25/2022

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?	☐	☐	☒
2) Is the Chain of Custody form or other directive shipping papers present?	☒	☐	☐
3) Does this project require special handling procedures such as CLP protocol?	☐	☒	☐
4) Are any samples NRC licensable material?	☐	☐	☒
5) If samples are received past hold time, proceed with requested short hold time analyses?	☒	☐	☐
6) Is the Chain of Custody form complete and accurate?	☒	☐	☐
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?	☐	☒	☐

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	☒	☐	☐
9) Are all labels on containers and are they intact and legible?	☒	☐	☐
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	☒	☐	☐
11) For preserved bottle types, was the pH checked and within limits? ¹	☒	☐	☐
12) Is there sufficient sample volume to perform all requested work?	☒	☐	☐
13) Is the custody seal intact on all containers?	☐	☐	☒
14) Are samples that require zero headspace acceptable?	☐	☐	☒
15) Are all sample containers appropriate for analytical requirements?	☒	☐	☐
16) Is there an Hg-1631 trip blank present?	☒	☐	☐
17) Is there a VOA trip blank present?	☐	☐	☒
18) Were all samples received within hold time?	☒	☐	☐

NA indicates Not Applicable

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Temp Criteria (°C)	Rad (µR/Hr)	Custody Seal Intact?
7193	5.8	<=6.0	15	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

Rio Grande Silver, Inc.

ACZ Project ID: L76838

Date Received: 10/24/2022 13:54

Received By:

Date Printed: 10/25/2022

¹ The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na₂S₂O₃ preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

ACZ**Laboratories, Inc.**

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

L76838

CHAIN of CUSTODY**Report to:**

Name: Randy McClure

Company: Rio Grande Silver, Inc.

E-mail: rmccclure@hecla-mining.com

Address: 625 USFS Road 504. 1A

Creede, CO 81130

Telephone: 719-658-1080

Copy of Report to:

Name: Randy McClure

Company: Rio Grande Silver, Inc.

rmccclure@hecla-mining.com

Telephone: 970-317-5355

Invoice to:

Name: Randy McClure

Company: Rio Grande Silver, Inc.

E-mail: rmccclure@hecla-mining.com

Address: 625 USFS Road 504. 1A

Creede, CO 81130

Telephone: 970-317-5355

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses?

YES

NO

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

Are samples for SDWA Compliance Monitoring?

Yes

No

If yes, please include state forms. Results will be reported to PQL for Colorado.

Sampler's Name: Randy McClure

Sampler's Site Information

State CO

Zip code 81130

Time Zone MST

*Sampler's Signature:

Randy McClure

*I attest to the authenticity and validity of this sample. I understand that mislabeling the time/date/location, or tampering with the sample in anyway, is considered fraud and punishable by State Law.

PROJECT INFORMATION

ANALYSES REQUESTED (attach list or use quote number)

Quote #: Rio Grande Silver, Inc.

PO#: BO50352

Reporting state for compliance testing:

Check box if samples include NRC licensed material?



SAMPLE IDENTIFICATION

DATE:TIME

Matrix

of Containers

9360 UMP Intrsx 1	10/20/22 9:38 am	GW	5	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
9360 UMP Intrsx 2	10/20/22 9:55 am	GW	5	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
9360 UMP Mid 1	10/20/22 10:15 am	GW	5	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
9360 UMP Mid 2	10/20/22 10:15 am	GW	5	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Trip Blank	10/20/22 10:28 am	GW	1	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

Matrix

SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

GW samples and any listed trip blanks should be included on one report. There is one cooler for this COC.
Please send an additional copy of the report to rmccclure@hecla-mining.com

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:

DATE:TIME

RECEIVED BY:

DATE:TIME

Randy McClure	10/20 11:47am		10/20/22

FRMAD050.03.14.13

White - Return with sample.

Yellow - Retain for your records.



L76838 Chain of Custody

November 30, 2022

Report to:

Randy McClure
Rio Grande Silver, Inc.
112 E. 12th St.
Creede, CO 81130

Bill to:

Randy McClure
Rio Grande Silver, Inc.
P.O. Box 610
Creede, CO 81130

cc: Randy McClure

Project ID: BO50352
ACZ Project ID: L77061

Randy McClure:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on November 04, 2022. This project has been assigned to ACZ's project number, L77061. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L77061. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after December 30, 2022. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.



Sue Webber has reviewed and
approved this report.



Rio Grande Silver, Inc.

Project ID: BO50352

Sample ID: 9360 UMP INTRSX 1

ACZ Sample ID: **L77061-01**

Date Sampled: 11/02/22 09:15

Date Received: 11/04/22

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								11/09/22 14:10	mlh
Total Recoverable Digestion	M200.2 ICP-MS								11/14/22 16:35	mfm
Total Recoverable Digestion	M200.2 ICP								11/10/22 21:07	aeH

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.8 ICP-MS	1	0.0248		*	mg/L	0.005	0.015	11/16/22 12:39	gjl/scp
Aluminum, total recoverable	M200.8 ICP-MS	1	0.602		*	mg/L	0.005	0.015	11/18/22 17:05	kja
Arsenic, total recoverable	M200.8 ICP-MS	1	0.0346			mg/L	0.0002	0.001	11/17/22 12:10	kja
Cadmium, dissolved	M200.8 ICP-MS	1	0.00122			mg/L	0.00005	0.00025	11/16/22 12:39	gjl/scp
Calcium, dissolved	M200.7 ICP	1	11.4			mg/L	0.1	0.5	11/17/22 22:59	keh1
Copper, dissolved	M200.8 ICP-MS	1	0.00470		*	mg/L	0.0008	0.002	11/16/22 12:39	gjl/scp
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	11/17/22 22:59	keh1
Iron, total recoverable	M200.7 ICP	1	0.599		*	mg/L	0.06	0.15	11/15/22 21:21	aeH
Lead, dissolved	M200.8 ICP-MS	1	0.00105			mg/L	0.0001	0.0005	11/16/22 12:39	gjl/scp
Magnesium, dissolved	M200.7 ICP	1	0.70	B		mg/L	0.2	1	11/17/22 22:59	keh1
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	11/17/22 22:59	keh1
Mercury, total	M1631E, Atomic Fluorescence	5	26.1			ng/L	1.5	5	11/11/22 13:54	scp
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	11/17/22 22:59	keh1
Potassium, dissolved	M200.7 ICP	1	0.97	B		mg/L	0.2	1	11/17/22 22:59	keh1
Selenium, dissolved	M200.8 ICP-MS	1	0.00684			mg/L	0.0001	0.00025	11/16/22 12:39	gjl/scp
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/16/22 12:39	gjl/scp
Sodium, dissolved	M200.7 ICP	1	3.91			mg/L	0.2	1	11/17/22 22:59	keh1
Zinc, dissolved	M200.7 ICP	1	0.093			mg/L	0.02	0.05	11/17/22 22:59	keh1

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Fluoride	SM4500F-C	1	<0.15	U		mg/L	0.15	0.35	11/28/22 16:54	jck
Hardness as CaCO3 (dissolved)	SM2340B - Calculation		31			mg/L	0.2	5	11/29/22 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							11/14/22 8:11	mlh
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	11/09/22 12:21	mrB
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	10.8			mg/L	1	5	11/15/22 17:46	gkk

Rio Grande Silver, Inc.

Project ID: BO50352

Sample ID: 9360 UMP INTRSX 2

ACZ Sample ID: **L77061-02**

Date Sampled: 11/02/22 09:15

Date Received: 11/04/22

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								11/09/22 14:10	mlh
Total Recoverable Digestion	M200.2 ICP-MS								11/14/22 16:35	mfm
Total Recoverable Digestion	M200.2 ICP								11/10/22 21:34	aeH

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.8 ICP-MS	1	0.0155		*	mg/L	0.005	0.015	11/16/22 12:42	gjl/scp
Aluminum, total recoverable	M200.8 ICP-MS	1	0.595		*	mg/L	0.005	0.015	11/18/22 17:07	kja
Arsenic, total recoverable	M200.8 ICP-MS	1	0.0344			mg/L	0.0002	0.001	11/17/22 12:12	kja
Cadmium, dissolved	M200.8 ICP-MS	1	0.00134			mg/L	0.00005	0.00025	11/16/22 12:42	gjl/scp
Calcium, dissolved	M200.7 ICP	1	10.8			mg/L	0.1	0.5	11/18/22 11:45	keh1
Copper, dissolved	M200.8 ICP-MS	1	0.00162	B	*	mg/L	0.0008	0.002	11/16/22 12:42	gjl/scp
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	11/18/22 11:45	keh1
Iron, total recoverable	M200.7 ICP	1	0.521		*	mg/L	0.06	0.15	11/15/22 21:24	aeH
Lead, dissolved	M200.8 ICP-MS	1	0.00158			mg/L	0.0001	0.0005	11/16/22 12:42	gjl/scp
Magnesium, dissolved	M200.7 ICP	1	0.61	B		mg/L	0.2	1	11/18/22 11:45	keh1
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	11/18/22 11:45	keh1
Mercury, total	M1631E, Atomic Fluorescence	1	20.4			ng/L	0.3	1	11/11/22 14:18	scp
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	11/18/22 11:45	keh1
Potassium, dissolved	M200.7 ICP	1	0.93	B		mg/L	0.2	1	11/18/22 11:45	keh1
Selenium, dissolved	M200.8 ICP-MS	1	0.00671			mg/L	0.0001	0.00025	11/16/22 12:42	gjl/scp
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/16/22 12:42	gjl/scp
Sodium, dissolved	M200.7 ICP	1	3.77			mg/L	0.2	1	11/18/22 11:45	keh1
Zinc, dissolved	M200.7 ICP	1	0.065			mg/L	0.02	0.05	11/19/22 20:37	wtc

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Fluoride	SM4500F-C	1	<0.15	U		mg/L	0.15	0.35	11/28/22 16:59	jck
Hardness as CaCO3 (dissolved)	SM2340B - Calculation		30			mg/L	0.2	5	11/29/22 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							11/14/22 8:14	mlh
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	11/09/22 12:24	mrB
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	11.7			mg/L	1	5	11/15/22 17:46	gkk

Rio Grande Silver, Inc.

Project ID: BO50352

Sample ID: 9360 UMP MID 1

ACZ Sample ID: **L77061-03**

Date Sampled: 11/02/22 10:20

Date Received: 11/04/22

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								11/09/22 14:10	mlh
Total Recoverable Digestion	M200.2 ICP-MS								11/14/22 16:35	mfm
Total Recoverable Digestion	M200.2 ICP								11/10/22 22:02	aeH

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.8 ICP-MS	1	0.0153		*	mg/L	0.005	0.015	11/16/22 12:44	gjl/scp
Aluminum, total recoverable	M200.8 ICP-MS	1	0.0768		*	mg/L	0.005	0.015	11/18/22 17:09	kja
Arsenic, total recoverable	M200.8 ICP-MS	1	0.0292			mg/L	0.0002	0.001	11/17/22 12:14	kja
Cadmium, dissolved	M200.8 ICP-MS	1	0.00196			mg/L	0.00005	0.00025	11/16/22 12:44	gjl/scp
Calcium, dissolved	M200.7 ICP	1	44.0			mg/L	0.1	0.5	11/18/22 11:49	keh1
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U	*	mg/L	0.0008	0.002	11/16/22 12:44	gjl/scp
Iron, dissolved	M200.7 ICP	1	1.30			mg/L	0.06	0.15	11/18/22 11:49	keh1
Iron, total recoverable	M200.7 ICP	1	6.92		*	mg/L	0.06	0.15	11/15/22 21:28	aeH
Lead, dissolved	M200.8 ICP-MS	1	0.00119			mg/L	0.0001	0.0005	11/16/22 12:44	gjl/scp
Magnesium, dissolved	M200.7 ICP	1	3.14			mg/L	0.2	1	11/18/22 11:49	keh1
Manganese, dissolved	M200.7 ICP	1	3.01			mg/L	0.01	0.05	11/18/22 11:49	keh1
Mercury, total	M1631E, Atomic Fluorescence	1	1.51			ng/L	0.3	1	11/11/22 14:23	scp
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	11/18/22 11:49	keh1
Potassium, dissolved	M200.7 ICP	1	2.76			mg/L	0.2	1	11/18/22 11:49	keh1
Selenium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.00025	11/16/22 12:44	gjl/scp
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/16/22 12:44	gjl/scp
Sodium, dissolved	M200.7 ICP	1	14.7			mg/L	0.2	1	11/18/22 11:49	keh1
Zinc, dissolved	M200.7 ICP	1	0.842			mg/L	0.02	0.05	11/19/22 20:40	wtc

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Fluoride	SM4500F-C	1	0.42			mg/L	0.15	0.35	11/28/22 17:17	jck
Hardness as CaCO3 (dissolved)	SM2340B - Calculation		123			mg/L	0.2	5	11/29/22 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							11/14/22 8:17	mlh
Residue, Non-Filterable (TSS) @105C	SM2540D	1	13.0	B	*	mg/L	5	20	11/09/22 12:26	mrB
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	145			mg/L	5	25	11/15/22 18:14	gkk

Rio Grande Silver, Inc.

Project ID: BO50352

Sample ID: 9360 UMP MID 2

ACZ Sample ID: **L77061-04**

Date Sampled: 11/02/22 10:20

Date Received: 11/04/22

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								11/09/22 14:10	mlh
Total Recoverable Digestion	M200.2 ICP-MS								11/14/22 16:35	mfm
Total Recoverable Digestion	M200.2 ICP								11/10/22 22:30	aeH

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.8 ICP-MS	1	0.0149	B	*	mg/L	0.005	0.015	11/16/22 12:46	gjl/scp
Aluminum, total recoverable	M200.8 ICP-MS	1	0.0742			mg/L	0.005	0.015	11/18/22 17:14	kja
Arsenic, total recoverable	M200.8 ICP-MS	1	0.0279			mg/L	0.0002	0.001	11/17/22 12:16	kja
Cadmium, dissolved	M200.8 ICP-MS	1	0.00167			mg/L	0.00005	0.00025	11/16/22 12:46	gjl/scp
Calcium, dissolved	M200.7 ICP	1	43.7			mg/L	0.1	0.5	11/18/22 11:52	keh1
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U	*	mg/L	0.0008	0.002	11/16/22 12:46	gjl/scp
Iron, dissolved	M200.7 ICP	1	1.09			mg/L	0.06	0.15	11/18/22 11:52	keh1
Iron, total recoverable	M200.7 ICP	1	6.97		*	mg/L	0.06	0.15	11/15/22 21:31	aeH
Lead, dissolved	M200.8 ICP-MS	1	0.00111			mg/L	0.0001	0.0005	11/16/22 12:46	gjl/scp
Magnesium, dissolved	M200.7 ICP	1	3.04			mg/L	0.2	1	11/18/22 11:52	keh1
Manganese, dissolved	M200.7 ICP	1	3.00			mg/L	0.01	0.05	11/18/22 11:52	keh1
Mercury, total	M1631E, Atomic Fluorescence	1	1.47			ng/L	0.3	1	11/11/22 14:27	scp
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	11/18/22 11:52	keh1
Potassium, dissolved	M200.7 ICP	1	2.73			mg/L	0.2	1	11/18/22 11:52	keh1
Selenium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.00025	11/16/22 12:46	gjl/scp
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/16/22 12:46	gjl/scp
Sodium, dissolved	M200.7 ICP	1	14.5			mg/L	0.2	1	11/18/22 11:52	keh1
Zinc, dissolved	M200.7 ICP	1	0.852			mg/L	0.02	0.05	11/19/22 20:43	wtc

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Fluoride	SM4500F-C	1	0.43			mg/L	0.15	0.35	11/28/22 17:22	jck
Hardness as CaCO3 (dissolved)	SM2340B - Calculation		122			mg/L	0.2	5	11/29/22 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							11/14/22 8:21	mlh
Residue, Non-Filterable (TSS) @105C	SM2540D	1	10.0	B	*	mg/L	5	20	11/09/22 12:29	mrB
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	146			mg/L	5	25	11/15/22 18:14	gkk

Rio Grande Silver, Inc.

Project ID: BO50352

Sample ID: TRIP BLANK

ACZ Sample ID: **L77061-05**

Date Sampled: 11/02/22 10:30

Date Received: 11/04/22

Sample Matrix: *Groundwater*

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Mercury, total	M1631E, Atomic Fluorescence	1	<0.3	U		ng/L	0.3	1	11/11/22 14:32	scp

Report Header Explanations

<i>Batch</i>	A distinct set of samples analyzed at a specific time
<i>Found</i>	Value of the QC Type of interest
<i>Limit</i>	Upper limit for RPD, in %.
<i>Lower</i>	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
<i>MDL</i>	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5). Allows for instrument and annual fluctuations.
<i>PCN/SCN</i>	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
<i>PQL</i>	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
<i>QC</i>	True Value of the Control Sample or the amount added to the Spike
<i>Rec</i>	Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)
<i>RPD</i>	Relative Percent Difference, calculation used for Duplicate QC Types
<i>Upper</i>	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
<i>Sample</i>	Value of the Sample of interest

QC Sample Types

<i>AS</i>	Analytical Spike (Post Digestion)	<i>LCSWD</i>	Laboratory Control Sample - Water Duplicate
<i>ASD</i>	Analytical Spike (Post Digestion) Duplicate	<i>LFB</i>	Laboratory Fortified Blank
<i>CCB</i>	Continuing Calibration Blank	<i>LFM</i>	Laboratory Fortified Matrix
<i>CCV</i>	Continuing Calibration Verification standard	<i>LFMD</i>	Laboratory Fortified Matrix Duplicate
<i>DUP</i>	Sample Duplicate	<i>LRB</i>	Laboratory Reagent Blank
<i>ICB</i>	Initial Calibration Blank	<i>MS</i>	Matrix Spike
<i>ICV</i>	Initial Calibration Verification standard	<i>MSD</i>	Matrix Spike Duplicate
<i>ICSAB</i>	Inter-element Correction Standard - A plus B solutions	<i>PBS</i>	Prep Blank - Soil
<i>LCSS</i>	Laboratory Control Sample - Soil	<i>PBW</i>	Prep Blank - Water
<i>LCSSD</i>	Laboratory Control Sample - Soil Duplicate	<i>PQV</i>	Practical Quantitation Verification standard
<i>LCSW</i>	Laboratory Control Sample - Water	<i>SDL</i>	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
L	Target analyte response was below the laboratory defined negative threshold.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

(1)	EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2)	EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3)	EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(4)	EPA SW-846. Test Methods for Evaluating Solid Waste.
(5)	Standard Methods for the Examination of Water and Wastewater.

Comments

(1)	QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2)	Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3)	Animal matrices for Inorganic analyses are reported on an "as received" basis.
(4)	An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
(5)	If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

For a complete list of ACZ's Extended Qualifiers, please click:

<https://acz.com/wp-content/uploads/2019/04/Ext-Qual-List.pdf>

HECLARIO

ACZ Project ID: **L77061**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Aluminum, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG554924													
WG554924ICV	ICV	11/16/22 11:37	MS220930-3	.1		.1044	mg/L	104	90	110			
WG554924ICB	ICB	11/16/22 11:39				U	mg/L		-0.011	0.011			
WG554924LFB	LFB	11/16/22 11:41	MS221101-6	.050065		.0452	mg/L	90	85	115			
L77050-02AS	AS	11/16/22 12:28	MS221101-6	.10013	19.2	19.1219	mg/L	-78	70	130			M3
L77050-02ASD	ASD	11/16/22 12:30	MS221101-6	.10013	19.2	19.0835	mg/L	-116	70	130	0	20	M3

Aluminum, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG555276													
WG555276ICV	ICV	11/18/22 16:52	MS220930-3	.1		.1016	mg/L	102	90	110			
WG555276ICB	ICB	11/18/22 16:54				U	mg/L		-0.015	0.015			
WG554939LRB	LRB	11/18/22 16:56				U	mg/L		-0.011	0.011			
WG554939LFB	LFB	11/18/22 16:58	MS221101-6	.050065		.0473	mg/L	94	85	115			
L77028-03LFM	LFM	11/18/22 17:02	MS221101-6	.050065	4.18	4.6363	mg/L	911	70	130			M3
L77028-03LFMD	LFMD	11/18/22 17:03	MS221101-6	.050065	4.18	4.7596	mg/L	1158	70	130	3	20	M3
L77071-01LFM	LFM	11/18/22 17:18	MS221101-6	.050065	U	.049	mg/L	98	70	130			
L77071-01LFMD	LFMD	11/18/22 17:20	MS221101-6	.050065	U	.0492	mg/L	98	70	130	0	20	

Arsenic, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG555100													
WG555100ICV	ICV	11/17/22 11:43	MS220930-3	.05		.04914	mg/L	98	90	110			
WG555100ICB	ICB	11/17/22 11:45				U	mg/L		-0.0006	0.0006			
WG554939LRB	LRB	11/17/22 11:46				U	mg/L		-0.00044	0.00044			
WG554939LFB	LFB	11/17/22 11:48	MS221101-6	.05005		.05246	mg/L	105	85	115			
L77028-03LFM	LFM	11/17/22 11:56	MS221101-6	.05005	.00194	.05344	mg/L	103	70	130			
L77028-03LFMD	LFMD	11/17/22 11:57	MS221101-6	.05005	.00194	.05325	mg/L	103	70	130	0	20	
L77071-01LFM	LFM	11/17/22 12:19	MS221101-6	.05005	U	.05188	mg/L	104	70	130			
L77071-01LFMD	LFMD	11/17/22 12:21	MS221101-6	.05005	U	.05186	mg/L	104	70	130	0	20	

Cadmium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG554924													
WG554924ICV	ICV	11/16/22 11:37	MS220930-3	.05		.049139	mg/L	98	90	110			
WG554924ICB	ICB	11/16/22 11:39				U	mg/L		-0.00011	0.00011			
WG554924LFB	LFB	11/16/22 11:41	MS221101-6	.05005		.046623	mg/L	93	85	115			
L77050-02AS	AS	11/16/22 12:28	MS221101-6	.1001	.0105	.088434	mg/L	78	70	130			
L77050-02ASD	ASD	11/16/22 12:30	MS221101-6	.1001	.0105	.098539	mg/L	88	70	130	11	20	

HECLARIO

ACZ Project ID: **L77061**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Calcium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG555183													
WG555183ICV	ICV	11/17/22 21:22	II221116-1	100		98.06	mg/L	98	95	105			
WG555183ICB	ICB	11/17/22 21:28				U	mg/L		-0.3	0.3			
WG555183LFB	LFB	11/17/22 21:41	II221104-3	67.99353		67.03	mg/L	99	85	115			
L77078-01AS	AS	11/17/22 23:09	II221104-3	67.99353	52.8	116.6	mg/L	94	85	115			
L77078-01ASD	ASD	11/17/22 23:12	II221104-3	67.99353	52.8	119	mg/L	97	85	115	2	20	
WG555187													
WG555187ICV	ICV	11/18/22 10:35	II221116-1	100		98.05	mg/L	98	95	105			
WG555187ICB	ICB	11/18/22 10:41				U	mg/L		-0.3	0.3			
WG555187LFB	LFB	11/18/22 10:54	II221104-3	67.99353		67.18	mg/L	99	85	115			
L77066-01AS	AS	11/18/22 12:11	II221104-3	67.99353	92.5	154	mg/L	90	85	115			
L77066-01ASD	ASD	11/18/22 12:14	II221104-3	67.99353	92.5	151.4	mg/L	87	85	115	2	20	

Copper, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG554924													
WG554924ICV	ICV	11/16/22 11:37	MS220930-3	.05		.05076	mg/L	102	90	110			
WG554924ICB	ICB	11/16/22 11:39				U	mg/L		-0.00176	0.00176			
WG554924LFB	LFB	11/16/22 11:41	MS221101-6	.05		.04743	mg/L	95	85	115			
L77050-02AS	AS	11/16/22 12:28	MS221101-6	.1	.361	.41853	mg/L	58	70	130			M3
L77050-02ASD	ASD	11/16/22 12:30	MS221101-6	.1	.361	.42182	mg/L	61	70	130	1	20	M3

Fluoride

SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG555618													
WG555618ICV	ICV	11/28/22 15:43	WC221118-10	2.008		1.95	mg/L	97	90	110			
WG555618ICB	ICB	11/28/22 15:47				U	mg/L		-0.3	0.3			
WG555618LFB1	LFB	11/28/22 16:03	WC221011-2	5.02		4.71	mg/L	94	90	110			
L76999-01AS	AS	11/28/22 16:15	WC221011-2	5.02	.89	5.57	mg/L	93	90	110			
L76999-01ASD	ASD	11/28/22 16:20	WC221011-2	5.02	.89	5.49	mg/L	92	90	110	1	20	
WG555618LFB2	LFB	11/28/22 18:50	WC221011-2	5.02		4.8	mg/L	96	90	110			

Iron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG555183													
WG555183ICV	ICV	11/17/22 21:22	II221116-1	2		1.955	mg/L	98	95	105			
WG555183ICB	ICB	11/17/22 21:28				U	mg/L		-0.18	0.18			
WG555183LFB	LFB	11/17/22 21:41	II221104-3	1.0013		.974	mg/L	97	85	115			
L77078-01AS	AS	11/17/22 23:09	II221104-3	1.0013	U	1.006	mg/L	100	85	115			
L77078-01ASD	ASD	11/17/22 23:12	II221104-3	1.0013	U	.998	mg/L	100	85	115	1	20	
WG555187													
WG555187ICV	ICV	11/18/22 10:35	II221116-1	2		1.962	mg/L	98	95	105			
WG555187ICB	ICB	11/18/22 10:41				U	mg/L		-0.18	0.18			
WG555187LFB	LFB	11/18/22 10:54	II221104-3	1.0013		.98	mg/L	98	85	115			
L77066-01AS	AS	11/18/22 12:11	II221104-3	1.0013	U	.94	mg/L	94	85	115			
L77066-01ASD	ASD	11/18/22 12:14	II221104-3	1.0013	U	.935	mg/L	93	85	115	1	20	

HECLARIO

ACZ Project ID: **L77061**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Iron, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG555031													
WG555031ICV	ICV	11/15/22 20:24	II221025-1	2		1.998	mg/L	100	95	105			
WG555031ICB	ICB	11/15/22 20:30				U	mg/L		-0.18	0.18			
WG554642LRB	LRB	11/15/22 20:43				U	mg/L		-0.132	0.132			
WG554642LFB	LFB	11/15/22 20:46	II221104-3	1.0013		1.002	mg/L	100	85	115			
L77013-02LFM	LFM	11/15/22 20:56	II221104-3	1.0013	74.5	76.06	mg/L	156	70	130			M3
L77013-02LFMD	LFMD	11/15/22 20:59	II221104-3	1.0013	74.5	76.24	mg/L	174	70	130	0	20	M3

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG554924													
WG554924ICV	ICV	11/16/22 11:37	MS220930-3	.05		.05175	mg/L	104	90	110			
WG554924ICB	ICB	11/16/22 11:39				U	mg/L		-0.00022	0.00022			
WG554924LFB	LFB	11/16/22 11:41	MS221101-6	.0501		.04841	mg/L	97	85	115			
L77050-02AS	AS	11/16/22 12:28	MS221101-6	.1002	.0113	.09777	mg/L	86	70	130			
L77050-02ASD	ASD	11/16/22 12:30	MS221101-6	.1002	.0113	.10806	mg/L	97	70	130	10	20	

Magnesium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG555183													
WG555183ICV	ICV	11/17/22 21:22	II221116-1	100		96.89	mg/L	97	95	105			
WG555183ICB	ICB	11/17/22 21:28				U	mg/L		-0.6	0.6			
WG555183LFB	LFB	11/17/22 21:41	II221104-3	49.99676		48.42	mg/L	97	85	115			
L77078-01AS	AS	11/17/22 23:09	II221104-3	49.99676	12.7	59.57	mg/L	94	85	115			
L77078-01ASD	ASD	11/17/22 23:12	II221104-3	49.99676	12.7	61.28	mg/L	97	85	115	3	20	
WG555187													
WG555187ICV	ICV	11/18/22 10:35	II221116-1	100		96.84	mg/L	97	95	105			
WG555187ICB	ICB	11/18/22 10:41				U	mg/L		-0.6	0.6			
WG555187LFB	LFB	11/18/22 10:54	II221104-3	49.99676		48.24	mg/L	96	85	115			
L77066-01AS	AS	11/18/22 12:11	II221104-3	49.99676	19.3	66.53	mg/L	94	85	115			
L77066-01ASD	ASD	11/18/22 12:14	II221104-3	49.99676	19.3	65.24	mg/L	92	85	115	2	20	

Manganese, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG555183													
WG555183ICV	ICV	11/17/22 21:22	II221116-1	2		1.925	mg/L	96	95	105			
WG555183ICB	ICB	11/17/22 21:28				U	mg/L		-0.03	0.03			
WG555183LFB	LFB	11/17/22 21:41	II221104-3	.499		.495	mg/L	99	85	115			
L77078-01AS	AS	11/17/22 23:09	II221104-3	.499	U	.501	mg/L	100	85	115			
L77078-01ASD	ASD	11/17/22 23:12	II221104-3	.499	U	.503	mg/L	101	85	115	0	20	
WG555187													
WG555187ICV	ICV	11/18/22 10:35	II221116-1	2		1.915	mg/L	96	95	105			
WG555187ICB	ICB	11/18/22 10:41				U	mg/L		-0.03	0.03			
WG555187LFB	LFB	11/18/22 10:54	II221104-3	.499		.494	mg/L	99	85	115			
L77066-01AS	AS	11/18/22 12:11	II221104-3	.499	U	.487	mg/L	98	85	115			
L77066-01ASD	ASD	11/18/22 12:14	II221104-3	.499	U	.479	mg/L	96	85	115	2	20	

HECLARIO

ACZ Project ID: **L77061**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Mercury, total

M1631E, Atomic Fluorescence

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG554692													
WG554692ICV	ICV	11/11/22 10:46	HG220913-4	10		8.85	ng/L	89	79	121			
WG554692ICB	ICB	11/11/22 10:50				U	ng/L		-0.501	0.501			
WG554793													
WG554793CCV1	CCV	11/11/22 10:46	HG220913-4	10		8.85	ng/L	89	76.5	123.4			
WG554793CCB1	CCB	11/11/22 10:50				U	ng/L		-0.501	0.501			
WG554793PQV	PQV	11/11/22 10:57	HG220913-6	1		.94	ng/L	94	70	130			
WG554793CCV2	CCV	11/11/22 11:45	HG220913-4	10		9.02	ng/L	90	76.5	123.4			
WG554793CCB2	CCB	11/11/22 11:49				U	ng/L		-0.501	0.501			
WG554793CCV3	CCV	11/11/22 12:48	HG220913-4	10		9.22	ng/L	92	76.5	123.4			
WG554793CCB3	CCB	11/11/22 12:52				U	ng/L		-0.501	0.501			
WG554793LFB	LFB	11/11/22 13:24	HG220913-5	2		1.8	ng/L	90	71	125			
WG554793CCV4	CCV	11/11/22 13:59	HG220913-4	10		9.45	ng/L	95	76.5	123.4			
WG554793CCB4	CCB	11/11/22 14:04				U	ng/L		-0.501	0.501			
L77061-01MS	MS	11/11/22 14:08	HG16315X	50	26.1	34.7	ng/L	86	71	125			
L77061-01MSD	MSD	11/11/22 14:13	HG16315X	50	26.1	34.35	ng/L	83	71	125	1	24	
WG554793CCV5	CCV	11/11/22 14:56	HG220913-4	10		9.51	ng/L	95	76.5	123.4			
WG554793CCB5	CCB	11/11/22 15:01				U	ng/L		-0.501	0.501			
WG554793CCV6	CCV	11/11/22 15:53	HG220913-4	10		9.47	ng/L	95	76.5	123.4			
WG554793CCB6	CCB	11/11/22 15:58				U	ng/L		-0.501	0.501			

Nickel, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG555183													
WG555183ICV	ICV	11/17/22 21:22	II221116-1	2		1.9428	mg/L	97	95	105			
WG555183ICB	ICB	11/17/22 21:28				U	mg/L		-0.024	0.024			
WG555183LFB	LFB	11/17/22 21:41	II221104-3	.502		.4963	mg/L	99	85	115			
L77078-01AS	AS	11/17/22 23:09	II221104-3	.502	U	.5	mg/L	100	85	115			
L77078-01ASD	ASD	11/17/22 23:12	II221104-3	.502	U	.5004	mg/L	100	85	115	0	20	
WG555187													
WG555187ICV	ICV	11/18/22 10:35	II221116-1	2		1.9302	mg/L	97	95	105			
WG555187ICB	ICB	11/18/22 10:41				U	mg/L		-0.024	0.024			
WG555187LFB	LFB	11/18/22 10:54	II221104-3	.502		.4955	mg/L	99	85	115			
L77066-01AS	AS	11/18/22 12:11	II221104-3	.502	U	.4885	mg/L	97	85	115			
L77066-01ASD	ASD	11/18/22 12:14	II221104-3	.502	U	.4768	mg/L	95	85	115	2	20	

HECLARIO

ACZ Project ID: **L77061**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Potassium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG555183													
WG555183ICV	ICV	11/17/22 21:22	II221116-1	20		19.37	mg/L	97	95	105			
WG555183ICB	ICB	11/17/22 21:28				U	mg/L		-0.6	0.6			
WG555183LFB	LFB	11/17/22 21:41	II221104-3	99.95798		95.95	mg/L	96	85	115			
L77078-01AS	AS	11/17/22 23:09	II221104-3	99.95798	11.7	106.2	mg/L	95	85	115			
L77078-01ASD	ASD	11/17/22 23:12	II221104-3	99.95798	11.7	109.7	mg/L	98	85	115	3	20	
WG555187													
WG555187ICV	ICV	11/18/22 10:35	II221116-1	20		19.34	mg/L	97	95	105			
WG555187ICB	ICB	11/18/22 10:41				U	mg/L		-0.6	0.6			
WG555187LFB	LFB	11/18/22 10:54	II221104-3	99.95798		96.31	mg/L	96	85	115			
L77066-01AS	AS	11/18/22 12:11	II221104-3	99.95798	2.56	98.25	mg/L	96	85	115			
L77066-01ASD	ASD	11/18/22 12:14	II221104-3	99.95798	2.56	96.11	mg/L	94	85	115	2	20	

Residue, Non-Filterable (TSS) @105C

SM2540D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG554556													
WG554556PBW	PBW	11/09/22 11:45				U	mg/L		-5	5			
WG554556LCSW	LCSW	11/09/22 11:47	PCN623307	100		87	mg/L	87	80	120			
L77079-03DUP	DUP	11/09/22 12:45			12	12	mg/L				0	10	RA

Selenium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG554924													
WG554924ICV	ICV	11/16/22 11:37	MS220930-3	.05		.05344	mg/L	107	90	110			
WG554924ICB	ICB	11/16/22 11:39				.00016	mg/L		-0.00022	0.00022			
WG554924LFB	LFB	11/16/22 11:41	MS221101-6	.05005		.05026	mg/L	100	85	115			
L77050-02AS	AS	11/16/22 12:28	MS221101-6	.1001	.00155	.08402	mg/L	82	70	130			
L77050-02ASD	ASD	11/16/22 12:30	MS221101-6	.1001	.00155	.09658	mg/L	95	70	130	14	20	

Silver, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG554924													
WG554924ICV	ICV	11/16/22 11:37	MS220930-3	.02		.01942	mg/L	97	90	110			
WG554924ICB	ICB	11/16/22 11:39				U	mg/L		-0.00022	0.00022			
WG554924LFB	LFB	11/16/22 11:41	MS221101-6	.01		.00972	mg/L	97	85	115			
L77050-02AS	AS	11/16/22 12:28	MS221101-6	.02	U	.0146	mg/L	73	70	130			
L77050-02ASD	ASD	11/16/22 12:30	MS221101-6	.02	U	.01667	mg/L	83	70	130	13	20	

HECLARIO

ACZ Project ID: **L77061**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Sodium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG555183													
WG555183ICV	ICV	11/17/22 21:22	II221116-1	100		96.72	mg/L	97	95	105			
WG555183ICB	ICB	11/17/22 21:28				U	mg/L		-0.6	0.6			
WG555183LFB	LFB	11/17/22 21:41	II221104-3	100.0023		95.2	mg/L	95	85	115			
L77078-01AS	AS	11/17/22 23:09	II221104-3	100.0023	65.2	157	mg/L	92	85	115			
L77078-01ASD	ASD	11/17/22 23:12	II221104-3	100.0023	65.2	158.5	mg/L	93	85	115	1	20	
WG555187													
WG555187ICV	ICV	11/18/22 10:35	II221116-1	100		96.86	mg/L	97	95	105			
WG555187ICB	ICB	11/18/22 10:41				U	mg/L		-0.6	0.6			
WG555187LFB	LFB	11/18/22 10:54	II221104-3	100.0023		95.65	mg/L	96	85	115			
L77066-01AS	AS	11/18/22 12:11	II221104-3	100.0023	36.9	129.8	mg/L	93	85	115			
L77066-01ASD	ASD	11/18/22 12:14	II221104-3	100.0023	36.9	128	mg/L	91	85	115	1	20	

Sulfate

D516-02/-07/-11 - TURBIDIMETRIC

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG554990													
WG554990ICV	ICV	11/15/22 13:17	WI221101-9	19.54		19.2	mg/L	98	90	110			
WG554990ICB	ICB	11/15/22 13:17				U	mg/L		-3	3			
WG554990LFB1	LFB	11/15/22 17:43	WI220830-3	10		9.7	mg/L	97	90	110			
L77061-02AS	AS	11/15/22 17:48	WI220830-3	10	11.7	22.4	mg/L	107	90	110			
L77061-03DUP	DUP	11/15/22 18:14			145	149.7	mg/L				3	20	
WG554990LFB2	LFB	11/15/22 18:45	WI220830-3	10		10.1	mg/L	101	90	110			

Zinc, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG555183													
WG555183ICV	ICV	11/17/22 21:22	II221116-1	2		1.903	mg/L	95	95	105			
WG555183ICB	ICB	11/17/22 21:28				U	mg/L		-0.06	0.06			
WG555183LFB	LFB	11/17/22 21:41	II221104-3	.50045		.496	mg/L	99	85	115			
L77078-01AS	AS	11/17/22 23:09	II221104-3	.50045	.033	.522	mg/L	98	85	115			
L77078-01ASD	ASD	11/17/22 23:12	II221104-3	.50045	.033	.537	mg/L	101	85	115	3	20	
WG555327													
WG555327ICV	ICV	11/19/22 19:31	II221116-1	2		1.927	mg/L	96	95	105			
WG555327ICB	ICB	11/19/22 19:37				U	mg/L		-0.06	0.06			
WG555327LFB	LFB	11/19/22 19:49	II221104-3	.50045		.51	mg/L	102	85	115			
L77066-01AS	AS	11/19/22 21:01	II221104-3	.50045	U	.504	mg/L	101	85	115			
L77066-01ASD	ASD	11/19/22 21:04	II221104-3	.50045	U	.505	mg/L	101	85	115	0	20	

Rio Grande Silver, Inc.

ACZ Project ID: **L77061**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L77061-01	WG554924	Aluminum, dissolved	M200.8 ICP-MS	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG555276	Aluminum, total recoverable	M200.8 ICP-MS	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG554924	Copper, dissolved	M200.8 ICP-MS	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG555031	Iron, total recoverable	M200.7 ICP	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG554556	Residue, Non-Filterable (TSS) @105C	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg
L77061-02	WG554924	Aluminum, dissolved	M200.8 ICP-MS	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG555276	Aluminum, total recoverable	M200.8 ICP-MS	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG554924	Copper, dissolved	M200.8 ICP-MS	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG555031	Iron, total recoverable	M200.7 ICP	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG554556	Residue, Non-Filterable (TSS) @105C	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg
L77061-03	WG554924	Aluminum, dissolved	M200.8 ICP-MS	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG555276	Aluminum, total recoverable	M200.8 ICP-MS	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG554924	Copper, dissolved	M200.8 ICP-MS	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG555031	Iron, total recoverable	M200.7 ICP	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG554556	Residue, Non-Filterable (TSS) @105C	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg

Rio Grande Silver, Inc.

ACZ Project ID: **L77061**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L77061-04	WG554924	Aluminum, dissolved	M200.8 ICP-MS	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
		Copper, dissolved	M200.8 ICP-MS	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG555031	Iron, total recoverable	M200.7 ICP	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG554556	Residue, Non-Filterable (TSS) @105C	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg

Rio Grande Silver, Inc.

ACZ Project ID: **L77061**

No certification qualifiers associated with this analysis

Rio Grande Silver, Inc.
BO50352

ACZ Project ID: L77061
Date Received: 11/04/2022 11:50
Received By:
Date Printed: 11/7/2022

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?	☐	☐	☒
2) Is the Chain of Custody form or other directive shipping papers present?	☒	☐	☐
3) Does this project require special handling procedures such as CLP protocol?	☐	☒	☐
4) Are any samples NRC licensable material?	☐	☐	☒
5) If samples are received past hold time, proceed with requested short hold time analyses?	☒	☐	☐
6) Is the Chain of Custody form complete and accurate?	☒	☐	☐
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?	☐	☒	☐

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	☒	☐	☐
9) Are all labels on containers and are they intact and legible?	☒	☐	☐
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	☒	☐	☐
11) For preserved bottle types, was the pH checked and within limits? ¹	☒	☐	☐
12) Is there sufficient sample volume to perform all requested work?	☒	☐	☐
13) Is the custody seal intact on all containers?	☐	☐	☒
14) Are samples that require zero headspace acceptable?	☐	☐	☒
15) Are all sample containers appropriate for analytical requirements?	☒	☐	☐
16) Is there an Hg-1631 trip blank present?	☒	☐	☐
17) Is there a VOA trip blank present?	☐	☐	☒
18) Were all samples received within hold time?	☒	☐	☐

NA indicates Not Applicable

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Temp Criteria (°C)	Rad (µR/Hr)	Custody Seal Intact?
-----	-----	-----	-----	-----
6745	2.2	<=6.0	15	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

Rio Grande Silver, Inc.
BO50352

ACZ Project ID: L77061

Date Received: 11/04/2022 11:50

Received By:

Date Printed: 11/7/2022

¹ The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na₂S₂O₃ preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

ACZ**Laboratories, Inc.****L77061****CHAIN of CUSTODY**

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Report to:

Name: Randy McClure

Company: Rio Grande Silver, Inc.

E-mail: rmcclure@hecla-mining.com

Address: 625 USFS Road 504. 1A

Creede, CO 81130

Telephone: 719-658-1080

Copy of Report to:

Name: Randy McClure

Company: Rio Grande Silver, Inc.

rmcclure@hecla-mining.com

Telephone: 970-317-5355

Invoice to:

Name: Randy McClure

Company: Rio Grande Silver, Inc.

E-mail: rmcclure@hecla-mining.com

Address: 625 USFS Road 504. 1A

Creede, CO 81130

Telephone: 970-317-5355

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses?

YES ☒
NO ☐

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

Are samples for SDWA Compliance Monitoring?

Yes ☐No ☐

If yes, please include state forms. Results will be reported to PQL for Colorado.

Sampler's Name: Randy McClure

Sampler's Site Information

State CO

Zip code 81130

Time Zone MST

*Sampler's Signature:

*I attest to the authenticity and validity of this sample. I understand that mislabeling the time/date/location, or tampering with the sample in anyway, is considered fraud and punishable by State Law.

PROJECT INFORMATION

ANALYSES REQUESTED (attach list or use quote number)

Quote #: Rio Grande Silver, Inc.

PO#: BO50352

Reporting state for compliance testing:

Check box if samples include NRC licensed material? ☐

SAMPLE IDENTIFICATION			DATE:TIME	Matrix	# of Containers														
9360 UMP Intrsx 1			11/02/22 9:15 am	GW	5	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
9360 UMP Intrsx 2			11/02/22 9:15 am	GW	5	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
9360 UMP Mid 1			11/02/22 10:20 am	GW	5	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
9360 UMP Mid 2			11/02/22 10:20 am	GW	5	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Trip Blank			11/02/22 10:30 am	GW	1	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

Matrix SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

GW samples and any listed trip blanks should be included on one report. There is one cooler for this COC.
Please send an additional copy of the report to rmcclure@hecla-mining.com

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:

DATE:TIME

RECEIVED BY:

DATE:TIME

Randy McClure

11/2/22 12 pm

JCC

11/4/22 11:50

ERMAD050.03.14.13

White - Return with sample.

Yellow - Retain for your records.

L77061 Chain of Custody

December 12, 2022

Report to:

Randy McClure
Rio Grande Silver, Inc.
112 E. 12th St.
Creede, CO 81130

cc: Randy McClure

Bill to:

Randy McClure
Rio Grande Silver, Inc.
P.O. Box 610
Creede, CO 81130

Project ID: BO50352
ACZ Project ID: L77172

Randy McClure:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on November 10, 2022. This project has been assigned to ACZ's project number, L77172. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L77172. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after January 11, 2023. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.



Sue Webber has reviewed and
approved this report.



Rio Grande Silver, Inc.

Project ID: BO50352

Sample ID: 9360 UMP INTRSX 1

ACZ Sample ID: **L77172-01**

Date Sampled: 11/09/22 09:10

Date Received: 11/10/22

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								11/16/22 17:30	kja
Total Recoverable Digestion	M200.2 ICP-MS								11/21/22 17:38	kja
Total Recoverable Digestion	M200.2 ICP								11/18/22 17:40	aeh

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.8 ICP-MS	1	0.0119	B		mg/L	0.005	0.015	11/18/22 15:34	mfm
Aluminum, total recoverable	M200.8 ICP-MS	1	0.651		*	mg/L	0.005	0.015	11/22/22 13:29	kja
Arsenic, total recoverable	M200.8 ICP-MS	1	0.0325			mg/L	0.0002	0.001	11/22/22 13:29	kja
Cadmium, dissolved	M200.8 ICP-MS	1	0.00117			mg/L	0.00005	0.00025	11/18/22 15:34	mfm
Calcium, dissolved	M200.7 ICP	1	11.2			mg/L	0.1	0.5	12/08/22 23:41	keh1
Copper, dissolved	M200.8 ICP-MS	1	0.00098	B		mg/L	0.0008	0.002	11/18/22 15:34	mfm
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	12/08/22 23:41	keh1
Iron, total recoverable	M200.7 ICP	1	0.721			mg/L	0.06	0.15	12/02/22 18:27	keh1
Lead, dissolved	M200.8 ICP-MS	1	0.00078			mg/L	0.0001	0.0005	11/18/22 15:34	mfm
Magnesium, dissolved	M200.7 ICP	1	0.63	B		mg/L	0.2	1	12/08/22 23:41	keh1
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	12/08/22 23:41	keh1
Mercury, total	M1631E, Atomic Fluorescence	2	29.2			ng/L	0.6	2	11/15/22 15:34	mlh
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	12/08/22 23:41	keh1
Potassium, dissolved	M200.7 ICP	1	0.93	B		mg/L	0.2	1	12/08/22 23:41	keh1
Selenium, dissolved	M200.8 ICP-MS	1	0.00625			mg/L	0.0001	0.00025	11/18/22 15:34	mfm
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/18/22 15:34	mfm
Sodium, dissolved	M200.7 ICP	1	3.78		*	mg/L	0.2	1	12/08/22 23:41	keh1
Zinc, dissolved	M200.7 ICP	1	0.105			mg/L	0.02	0.05	12/08/22 23:41	keh1

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Fluoride	SM4500F-C	1	0.16	B	*	mg/L	0.15	0.35	12/01/22 19:38	emk
Hardness as CaCO3 (dissolved)	SM2340B - Calculation		31			mg/L	0.2	5	12/12/22 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							11/22/22 8:41	mlh
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	11/16/22 11:07	svm
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	8.5			mg/L	1	5	11/29/22 16:38	gkk

Rio Grande Silver, Inc.

Project ID: BO50352

Sample ID: 9360 UMP INTRSX 2

ACZ Sample ID: **L77172-02**

Date Sampled: 11/09/22 09:20

Date Received: 11/10/22

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								11/16/22 17:30	kja
Total Recoverable Digestion	M200.2 ICP-MS								11/21/22 18:16	kja
Total Recoverable Digestion	M200.2 ICP								11/18/22 18:08	aeh

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.8 ICP-MS	1	0.0084	B		mg/L	0.005	0.015	11/18/22 15:36	mfm
Aluminum, total recoverable	M200.8 ICP-MS	1	0.634		*	mg/L	0.005	0.015	11/22/22 13:34	kja
Arsenic, total recoverable	M200.8 ICP-MS	1	0.0324			mg/L	0.0002	0.001	11/22/22 13:34	kja
Cadmium, dissolved	M200.8 ICP-MS	1	0.00115			mg/L	0.00005	0.00025	11/18/22 15:36	mfm
Calcium, dissolved	M200.7 ICP	1	11.3			mg/L	0.1	0.5	12/08/22 23:45	keh1
Copper, dissolved	M200.8 ICP-MS	1	0.00106	B		mg/L	0.0008	0.002	11/18/22 15:36	mfm
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	12/08/22 23:45	keh1
Iron, total recoverable	M200.7 ICP	1	0.441			mg/L	0.06	0.15	12/02/22 18:30	keh1
Lead, dissolved	M200.8 ICP-MS	1	0.00062			mg/L	0.0001	0.0005	11/18/22 15:36	mfm
Magnesium, dissolved	M200.7 ICP	1	0.64	B		mg/L	0.2	1	12/08/22 23:45	keh1
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	12/08/22 23:45	keh1
Mercury, total	M1631E, Atomic Fluorescence	1	20.2			ng/L	0.3	1	11/15/22 14:38	mlh
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	12/08/22 23:45	keh1
Potassium, dissolved	M200.7 ICP	1	0.89	B		mg/L	0.2	1	12/08/22 23:45	keh1
Selenium, dissolved	M200.8 ICP-MS	1	0.00657			mg/L	0.0001	0.00025	11/18/22 15:36	mfm
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/18/22 15:36	mfm
Sodium, dissolved	M200.7 ICP	1	3.73		*	mg/L	0.2	1	12/08/22 23:45	keh1
Zinc, dissolved	M200.7 ICP	1	0.167			mg/L	0.02	0.05	12/08/22 23:45	keh1

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Fluoride	SM4500F-C	1	<0.15	U	*	mg/L	0.15	0.35	12/01/22 19:56	emk
Hardness as CaCO3 (dissolved)	SM2340B - Calculation		31			mg/L	0.2	5	12/12/22 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							11/22/22 8:53	mlh
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	11/16/22 11:10	svm
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	8.4			mg/L	1	5	11/29/22 16:40	gkk

Rio Grande Silver, Inc.

Project ID: BO50352

Sample ID: 9360 UMP MID 1

ACZ Sample ID: **L77172-03**

Date Sampled: 11/09/22 09:50

Date Received: 11/10/22

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								11/16/22 17:30	kja
Total Recoverable Digestion	M200.2 ICP-MS								11/21/22 18:28	kja
Total Recoverable Digestion	M200.2 ICP								11/18/22 18:35	aeh

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.8 ICP-MS	1	0.0115	B		mg/L	0.005	0.015	11/18/22 15:41	mfm
Aluminum, total recoverable	M200.8 ICP-MS	1	0.0666		*	mg/L	0.005	0.015	11/22/22 13:36	kja
Arsenic, total recoverable	M200.8 ICP-MS	1	0.0277			mg/L	0.0002	0.001	11/22/22 13:36	kja
Cadmium, dissolved	M200.8 ICP-MS	1	0.00202			mg/L	0.00005	0.00025	11/18/22 15:41	mfm
Calcium, dissolved	M200.7 ICP	1	44.1			mg/L	0.1	0.5	12/08/22 23:48	keh1
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	11/18/22 15:41	mfm
Iron, dissolved	M200.7 ICP	1	1.16			mg/L	0.06	0.15	12/08/22 23:48	keh1
Iron, total recoverable	M200.7 ICP	1	7.12			mg/L	0.06	0.15	12/02/22 18:34	keh1
Lead, dissolved	M200.8 ICP-MS	1	0.00099			mg/L	0.0001	0.0005	11/18/22 15:41	mfm
Magnesium, dissolved	M200.7 ICP	1	3.08			mg/L	0.2	1	12/08/22 23:48	keh1
Manganese, dissolved	M200.7 ICP	1	3.00			mg/L	0.01	0.05	12/08/22 23:48	keh1
Mercury, total	M1631E, Atomic Fluorescence	1	1.41			ng/L	0.3	1	11/15/22 14:52	mlh
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	12/08/22 23:48	keh1
Potassium, dissolved	M200.7 ICP	1	2.71			mg/L	0.2	1	12/08/22 23:48	keh1
Selenium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.00025	11/18/22 15:41	mfm
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/18/22 15:41	mfm
Sodium, dissolved	M200.7 ICP	1	14.6		*	mg/L	0.2	1	12/08/22 23:48	keh1
Zinc, dissolved	M200.7 ICP	1	0.783			mg/L	0.02	0.05	12/08/22 23:48	keh1

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Fluoride	SM4500F-C	1	0.28	B	*	mg/L	0.15	0.35	12/01/22 20:02	emk
Hardness as CaCO3 (dissolved)	SM2340B - Calculation		123			mg/L	0.2	5	12/12/22 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							11/22/22 9:05	mlh
Residue, Non-Filterable (TSS) @105C	SM2540D	1	16.0	B	*	mg/L	5	20	11/16/22 11:13	svm
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	145			mg/L	5	25	11/29/22 17:32	gkk

Rio Grande Silver, Inc.

Project ID: BO50352

Sample ID: 9360 UMP MID 2

ACZ Sample ID: **L77172-04**

Date Sampled: 11/09/22 09:55

Date Received: 11/10/22

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								11/16/22 17:30	kja
Total Recoverable Digestion	M200.2 ICP-MS								11/21/22 18:41	kja
Total Recoverable Digestion	M200.2 ICP								11/18/22 19:03	aeh

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.8 ICP-MS	1	0.0117	B		mg/L	0.005	0.015	11/18/22 15:43	mfm
Aluminum, total recoverable	M200.8 ICP-MS	1	0.0651			mg/L	0.005	0.015	11/22/22 13:38	kja
Arsenic, total recoverable	M200.8 ICP-MS	1	0.0280			mg/L	0.0002	0.001	11/22/22 13:38	kja
Cadmium, dissolved	M200.8 ICP-MS	1	0.00170			mg/L	0.00005	0.00025	11/18/22 15:43	mfm
Calcium, dissolved	M200.7 ICP	1	45.5			mg/L	0.1	0.5	12/09/22 19:57	keh1
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	11/18/22 15:43	mfm
Iron, dissolved	M200.7 ICP	1	0.894			mg/L	0.06	0.15	12/09/22 19:57	keh1
Iron, total recoverable	M200.7 ICP	1	7.10			mg/L	0.06	0.15	12/02/22 18:37	keh1
Lead, dissolved	M200.8 ICP-MS	1	0.00074			mg/L	0.0001	0.0005	11/18/22 15:43	mfm
Magnesium, dissolved	M200.7 ICP	1	3.11			mg/L	0.2	1	12/09/22 19:57	keh1
Manganese, dissolved	M200.7 ICP	1	3.01			mg/L	0.01	0.05	12/09/22 19:57	keh1
Mercury, total	M1631E, Atomic Fluorescence	1	1.53			ng/L	0.3	1	11/15/22 15:07	mlh
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	12/09/22 19:57	keh1
Potassium, dissolved	M200.7 ICP	1	2.69			mg/L	0.2	1	12/09/22 19:57	keh1
Selenium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.00025	11/18/22 15:43	mfm
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/18/22 15:43	mfm
Sodium, dissolved	M200.7 ICP	1	14.8			mg/L	0.2	1	12/09/22 19:57	keh1
Zinc, dissolved	M200.7 ICP	1	0.822			mg/L	0.02	0.05	12/09/22 19:57	keh1

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Fluoride	SM4500F-C	1	0.28	B	*	mg/L	0.15	0.35	12/01/22 20:07	emk
Hardness as CaCO3 (dissolved)	SM2340B - Calculation		126			mg/L	0.2	5	12/12/22 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							11/22/22 9:18	mlh
Residue, Non-Filterable (TSS) @105C	SM2540D	1	13.0	B	*	mg/L	5	20	11/16/22 11:15	svm
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	146			mg/L	5	25	11/29/22 17:32	gkk

Rio Grande Silver, Inc.

Project ID: BO50352

Sample ID: TRIP BLANK

ACZ Sample ID: **L77172-05**

Date Sampled: 11/09/22 10:00

Date Received: 11/10/22

Sample Matrix: *Groundwater*

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Mercury, total	M1631E, Atomic Fluorescence	1	<0.3	U		ng/L	0.3	1	11/15/22 15:11	mlh

Report Header Explanations

<i>Batch</i>	A distinct set of samples analyzed at a specific time
<i>Found</i>	Value of the QC Type of interest
<i>Limit</i>	Upper limit for RPD, in %.
<i>Lower</i>	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
<i>MDL</i>	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5). Allows for instrument and annual fluctuations.
<i>PCN/SCN</i>	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
<i>PQL</i>	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
<i>QC</i>	True Value of the Control Sample or the amount added to the Spike
<i>Rec</i>	Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)
<i>RPD</i>	Relative Percent Difference, calculation used for Duplicate QC Types
<i>Upper</i>	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
<i>Sample</i>	Value of the Sample of interest

QC Sample Types

<i>AS</i>	Analytical Spike (Post Digestion)	<i>LCSWD</i>	Laboratory Control Sample - Water Duplicate
<i>ASD</i>	Analytical Spike (Post Digestion) Duplicate	<i>LFB</i>	Laboratory Fortified Blank
<i>CCB</i>	Continuing Calibration Blank	<i>LFM</i>	Laboratory Fortified Matrix
<i>CCV</i>	Continuing Calibration Verification standard	<i>LFMD</i>	Laboratory Fortified Matrix Duplicate
<i>DUP</i>	Sample Duplicate	<i>LRB</i>	Laboratory Reagent Blank
<i>ICB</i>	Initial Calibration Blank	<i>MS</i>	Matrix Spike
<i>ICV</i>	Initial Calibration Verification standard	<i>MSD</i>	Matrix Spike Duplicate
<i>ICSAB</i>	Inter-element Correction Standard - A plus B solutions	<i>PBS</i>	Prep Blank - Soil
<i>LCSS</i>	Laboratory Control Sample - Soil	<i>PBW</i>	Prep Blank - Water
<i>LCSSD</i>	Laboratory Control Sample - Soil Duplicate	<i>PQV</i>	Practical Quantitation Verification standard
<i>LCSW</i>	Laboratory Control Sample - Water	<i>SDL</i>	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
L	Target analyte response was below the laboratory defined negative threshold.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

(1)	EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2)	EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3)	EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(4)	EPA SW-846. Test Methods for Evaluating Solid Waste.
(5)	Standard Methods for the Examination of Water and Wastewater.

Comments

(1)	QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2)	Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3)	Animal matrices for Inorganic analyses are reported on an "as received" basis.
(4)	An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
(5)	If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

For a complete list of ACZ's Extended Qualifiers, please click:

<https://acz.com/wp-content/uploads/2019/04/Ext-Qual-List.pdf>

HECLARIO

ACZ Project ID: **L77172**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Aluminum, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG555285													
WG555285ICV	ICV	11/18/22 14:29	MS220930-3	.1		.1071	mg/L	107	90	110			
WG555285ICB	ICB	11/18/22 14:31				U	mg/L		-0.011	0.011			
WG555285LFB	LFB	11/18/22 14:56	MS221101-6	.050065		.0445	mg/L	89	85	115			
L77172-02AS	AS	11/18/22 15:38	MS221101-6	.050065	.0084	.0518	mg/L	87	70	130			
L77172-02ASD	ASD	11/18/22 15:39	MS221101-6	.050065	.0084	.0515	mg/L	86	70	130	1	20	

Aluminum, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG555422													
WG555422ICV	ICV	11/22/22 13:05	MS220930-3	.1		.1002	mg/L	100	90	110			
WG555422ICB	ICB	11/22/22 13:07				U	mg/L		-0.015	0.015			
WG555377LRB	LRB	11/22/22 13:09				U	mg/L		-0.011	0.011			
WG555377LFB	LFB	11/22/22 13:10	MS221101-6	.050065		.0459	mg/L	92	85	115			
L77172-01LFM	LFM	11/22/22 13:30	MS221101-6	.050065	.651	.6721	mg/L	42	70	130			M3
L77172-01LFMD	LFMD	11/22/22 13:32	MS221101-6	.050065	.651	.6725	mg/L	43	70	130	0	20	M3
L77235-01LFM	LFM	11/22/22 13:54	MS221101-6	.050065	.0179	.0621	mg/L	88	70	130			
L77235-01LFMD	LFMD	11/22/22 13:56	MS221101-6	.050065	.0179	.0631	mg/L	90	70	130	2	20	

Arsenic, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG555422													
WG555422ICV	ICV	11/22/22 13:05	MS220930-3	.05		.04938	mg/L	99	90	110			
WG555422ICB	ICB	11/22/22 13:07				U	mg/L		-0.0006	0.0006			
WG555377LRB	LRB	11/22/22 13:09				U	mg/L		-0.00044	0.00044			
WG555377LFB	LFB	11/22/22 13:10	MS221101-6	.05005		.05045	mg/L	101	85	115			
L77172-01LFM	LFM	11/22/22 13:30	MS221101-6	.05005	.0325	.08165	mg/L	98	70	130			
L77172-01LFMD	LFMD	11/22/22 13:32	MS221101-6	.05005	.0325	.08195	mg/L	99	70	130	0	20	
L77235-01LFM	LFM	11/22/22 13:54	MS221101-6	.05005	.00031	.05028	mg/L	100	70	130			
L77235-01LFMD	LFMD	11/22/22 13:56	MS221101-6	.05005	.00031	.05014	mg/L	100	70	130	0	20	

Cadmium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG555285													
WG555285ICV	ICV	11/18/22 14:29	MS220930-3	.05		.052425	mg/L	105	90	110			
WG555285ICB	ICB	11/18/22 14:31				U	mg/L		-0.00011	0.00011			
WG555285LFB	LFB	11/18/22 14:56	MS221101-6	.05005		.047591	mg/L	95	85	115			
L77172-02AS	AS	11/18/22 15:38	MS221101-6	.05005	.00115	.049817	mg/L	97	70	130			
L77172-02ASD	ASD	11/18/22 15:39	MS221101-6	.05005	.00115	.050076	mg/L	98	70	130	1	20	

HECLARIO

ACZ Project ID: **L77172**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Calcium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG556352													
WG556352ICV	ICV	12/08/22 23:19	II221116-1	100		99.87	mg/L	100	95	105			
WG556352ICB	ICB	12/08/22 23:25				U	mg/L		-0.3	0.3			
WG556352LFB	LFB	12/08/22 23:38	II221202-2	67.99353		69.09	mg/L	102	85	115			
L77174-07AS	AS	12/09/22 0:20	II221202-2	67.99353	2.13	69.37	mg/L	99	85	115			
L77174-07ASD	ASD	12/09/22 0:24	II221202-2	67.99353	2.13	69.36	mg/L	99	85	115	0	20	
WG556353													
WG556353ICV	ICV	12/09/22 19:22	II221116-1	100		101.08	mg/L	101	95	105			
WG556353ICB	ICB	12/09/22 19:28				U	mg/L		-0.3	0.3			
WG556353LFB	LFB	12/09/22 19:41	II221202-2	67.99353		74.38	mg/L	109	85	115			
L77063-01AS	AS	12/09/22 19:47	II221202-2	67.99353	56.2	122.3	mg/L	97	85	115			
L77063-01ASD	ASD	12/09/22 19:50	II221202-2	67.99353	56.2	125	mg/L	101	85	115	2	20	

Copper, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG555285													
WG555285ICV	ICV	11/18/22 14:29	MS220930-3	.05		.05074	mg/L	101	90	110			
WG555285ICB	ICB	11/18/22 14:31				U	mg/L		-0.00176	0.00176			
WG555285LFB	LFB	11/18/22 14:56	MS221101-6	.05		.04482	mg/L	90	85	115			
L77172-02AS	AS	11/18/22 15:38	MS221101-6	.05	.00106	.04431	mg/L	87	70	130			
L77172-02ASD	ASD	11/18/22 15:39	MS221101-6	.05	.00106	.0451	mg/L	88	70	130	2	20	

Fluoride

SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG555874													
WG555874ICV	ICV	12/01/22 12:33	WC221118-10	2.008		1.94	mg/L	97	90	110			
WG555874ICB	ICB	12/01/22 12:38				U	mg/L		-0.3	0.3			
WG555911													
WG555911ICV	ICV	12/01/22 17:27	WC221201-1	2.008		2.01	mg/L	100	90	110			
WG555911ICB	ICB	12/01/22 17:35				U	mg/L		-0.3	0.3			
WG555911LFB1	LFB	12/01/22 17:45	WC221011-2	5.02		5.3	mg/L	106	90	110			
L77157-05AS	AS	12/01/22 19:10	WC221011-2	5.02	.47	4.85	mg/L	87	90	110			M2
L77157-05ASD	ASD	12/01/22 19:16	WC221011-2	5.02	.47	4.85	mg/L	87	90	110	0	20	M2
WG555911LFB2	LFB	12/01/22 20:21	WC221011-2	5.02		5.22	mg/L	104	90	110			

HECLARIO

ACZ Project ID: **L77172**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Iron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG556352													
WG556352ICV	ICV	12/08/22 23:19	II221116-1	2		1.989	mg/L	99	95	105			
WG556352ICB	ICB	12/08/22 23:25				U	mg/L		-0.18	0.18			
WG556352LFB	LFB	12/08/22 23:38	II221202-2	1.0013		.997	mg/L	100	85	115			
L77174-07AS	AS	12/09/22 0:20	II221202-2	1.0013	.125	1.109	mg/L	98	85	115			
L77174-07ASD	ASD	12/09/22 0:24	II221202-2	1.0013	.125	1.122	mg/L	100	85	115	1	20	
WG556353													
WG556353ICV	ICV	12/09/22 19:22	II221116-1	2		1.97	mg/L	99	95	105			
WG556353ICB	ICB	12/09/22 19:28				U	mg/L		-0.18	0.18			
WG556353LFB	LFB	12/09/22 19:41	II221202-2	1.0013		1.051	mg/L	105	85	115			
L77063-01AS	AS	12/09/22 19:47	II221202-2	1.0013	U	.994	mg/L	99	85	115			
L77063-01ASD	ASD	12/09/22 19:50	II221202-2	1.0013	U	.971	mg/L	97	85	115	2	20	

Iron, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG555979													
WG555979ICV	ICV	12/02/22 18:02	II221116-1	2		2.018	mg/L	101	95	105			
WG555979ICB	ICB	12/02/22 18:08				U	mg/L		-0.18	0.18			
WG555299LRB	LRB	12/02/22 18:21				U	mg/L		-0.132	0.132			
WG555299LFB	LFB	12/02/22 18:24	II221104-3	1.0013		1.021	mg/L	102	85	115			
L77172-04LFM	LFM	12/02/22 18:40	II221104-3	1.0013	7.1	7.997	mg/L	90	70	130			
L77172-04LFMD	LFMD	12/02/22 18:43	II221104-3	1.0013	7.1	7.972	mg/L	87	70	130	0	20	

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG555285													
WG555285ICV	ICV	11/18/22 14:29	MS220930-3	.05		.05216	mg/L	104	90	110			
WG555285ICB	ICB	11/18/22 14:31				U	mg/L		-0.00022	0.00022			
WG555285LFB	LFB	11/18/22 14:56	MS221101-6	.0501		.04687	mg/L	94	85	115			
L77172-02AS	AS	11/18/22 15:38	MS221101-6	.0501	.00062	.04636	mg/L	91	70	130			
L77172-02ASD	ASD	11/18/22 15:39	MS221101-6	.0501	.00062	.0474	mg/L	93	70	130	2	20	

Magnesium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG556352													
WG556352ICV	ICV	12/08/22 23:19	II221116-1	100		98.28	mg/L	98	95	105			
WG556352ICB	ICB	12/08/22 23:25				U	mg/L		-0.6	0.6			
WG556352LFB	LFB	12/08/22 23:38	II221202-2	49.99676		49.21	mg/L	98	85	115			
L77174-07AS	AS	12/09/22 0:20	II221202-2	49.99676	1.36	51.1	mg/L	99	85	115			
L77174-07ASD	ASD	12/09/22 0:24	II221202-2	49.99676	1.36	51.29	mg/L	100	85	115	0	20	
WG556353													
WG556353ICV	ICV	12/09/22 19:22	II221116-1	100		97.98	mg/L	98	95	105			
WG556353ICB	ICB	12/09/22 19:28				U	mg/L		-0.6	0.6			
WG556353LFB	LFB	12/09/22 19:41	II221202-2	49.99676		52.25	mg/L	105	85	115			
L77063-01AS	AS	12/09/22 19:47	II221202-2	49.99676	15.1	63.15	mg/L	96	85	115			
L77063-01ASD	ASD	12/09/22 19:50	II221202-2	49.99676	15.1	64.7	mg/L	99	85	115	2	20	

HECLARIO

ACZ Project ID: **L77172**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Manganese, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG556352													
WG556352ICV	ICV	12/08/22 23:19	II221116-1	2		1.929	mg/L	96	95	105			
WG556352ICB	ICB	12/08/22 23:25				U	mg/L		-0.03	0.03			
WG556352LFB	LFB	12/08/22 23:38	II221202-2	.499		.503	mg/L	101	85	115			
L77174-07AS	AS	12/09/22 0:20	II221202-2	.499	U	.495	mg/L	99	85	115			
L77174-07ASD	ASD	12/09/22 0:24	II221202-2	.499	U	.493	mg/L	99	85	115	0	20	
WG556353													
WG556353ICV	ICV	12/09/22 19:22	II221116-1	2		1.909	mg/L	95	95	105			
WG556353ICB	ICB	12/09/22 19:28				U	mg/L		-0.03	0.03			
WG556353LFB	LFB	12/09/22 19:41	II221202-2	.499		.527	mg/L	106	85	115			
L77063-01AS	AS	12/09/22 19:47	II221202-2	.499	U	.496	mg/L	99	85	115			
L77063-01ASD	ASD	12/09/22 19:50	II221202-2	.499	U	.487	mg/L	98	85	115	2	20	

Mercury, total

M1631E, Atomic Fluorescence

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG554692													
WG554692ICV	ICV	11/11/22 10:46	HG220913-4	10		8.85	ng/L	89	79	121			
WG554692ICB	ICB	11/11/22 10:50				U	ng/L		-0.501	0.501			
WG554985													
WG554985CCV1	CCV	11/15/22 9:09	HG220913-4	10		9.38	ng/L	94	76.5	123.4			
WG554985CCB1	CCB	11/15/22 9:14				U	ng/L		-0.501	0.501			
WG554985PQV	PQV	11/15/22 9:47	HG220913-6	1		.94	ng/L	94	70	130			
WG554985CCV2	CCV	11/15/22 12:01	HG220913-4	10		8.72	ng/L	87	76.5	123.4			
WG554985CCB2	CCB	11/15/22 12:06				U	ng/L		-0.501	0.501			
WG554985LFB	LFB	11/15/22 12:54	HG220913-5	2		1.69	ng/L	85	71	125			
WG554985CCV3	CCV	11/15/22 13:34	HG220913-4	10		8.83	ng/L	88	76.5	123.4			
WG554985CCB3	CCB	11/15/22 13:39				U	ng/L		-0.501	0.501			
WG554985CCV4	CCV	11/15/22 14:43	HG220913-4	10		9.32	ng/L	93	76.5	123.4			
WG554985CCB4	CCB	11/15/22 14:47				U	ng/L		-0.501	0.501			
L77172-03MS	MS	11/15/22 14:57	HG220913-5	2	1.41	2.85	ng/L	72	71	125			
L77172-03MSD	MSD	11/15/22 15:02	HG220913-5	2	1.41	2.87	ng/L	73	71	125	1	24	
WG554985CCV5	CCV	11/15/22 15:21	HG220913-4	10		9.52	ng/L	95	76.5	123.4			
WG554985CCB5	CCB	11/15/22 15:26				U	ng/L		-0.501	0.501			
WG554985CCV6	CCV	11/15/22 15:39	HG220913-4	10		9.44	ng/L	94	76.5	123.4			
WG554985CCB6	CCB	11/15/22 15:44				U	ng/L		-0.501	0.501			

HECLARIO

ACZ Project ID: **L77172**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Nickel, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG556352													
WG556352ICV	ICV	12/08/22 23:19	II221116-1	2		1.9622	mg/L	98	95	105			
WG556352ICB	ICB	12/08/22 23:25				U	mg/L		-0.024	0.024			
WG556352LFB	LFB	12/08/22 23:38	II221202-2	.502		.4986	mg/L	99	85	115			
L77174-07AS	AS	12/09/22 0:20	II221202-2	.502	U	.5059	mg/L	101	85	115			
L77174-07ASD	ASD	12/09/22 0:24	II221202-2	.502	U	.4944	mg/L	98	85	115	2	20	
WG556353													
WG556353ICV	ICV	12/09/22 19:22	II221116-1	2		1.9845	mg/L	99	95	105			
WG556353ICB	ICB	12/09/22 19:28				U	mg/L		-0.024	0.024			
WG556353LFB	LFB	12/09/22 19:41	II221202-2	.502		.5386	mg/L	107	85	115			
L77063-01AS	AS	12/09/22 19:47	II221202-2	.502	U	.5095	mg/L	101	85	115			
L77063-01ASD	ASD	12/09/22 19:50	II221202-2	.502	U	.4943	mg/L	98	85	115	3	20	

Potassium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG556352													
WG556352ICV	ICV	12/08/22 23:19	II221116-1	20		19.64	mg/L	98	95	105			
WG556352ICB	ICB	12/08/22 23:25				U	mg/L		-0.6	0.6			
WG556352LFB	LFB	12/08/22 23:38	II221202-2	99.95798		98.97	mg/L	99	85	115			
L77174-07AS	AS	12/09/22 0:20	II221202-2	99.95798	.92	95.98	mg/L	95	85	115			
L77174-07ASD	ASD	12/09/22 0:24	II221202-2	99.95798	.92	96.09	mg/L	95	85	115	0	20	
WG556353													
WG556353ICV	ICV	12/09/22 19:22	II221116-1	20		19.83	mg/L	99	95	105			
WG556353ICB	ICB	12/09/22 19:28				U	mg/L		-0.6	0.6			
WG556353LFB	LFB	12/09/22 19:41	II221202-2	99.95798		105.9	mg/L	106	85	115			
L77063-01AS	AS	12/09/22 19:47	II221202-2	99.95798	1.65	100.4	mg/L	99	85	115			
L77063-01ASD	ASD	12/09/22 19:50	II221202-2	99.95798	1.65	104.6	mg/L	103	85	115	4	20	

Residue, Non-Filterable (TSS) @105C

SM2540D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG555080													
WG555080PBW	PBW	11/16/22 10:47				U	mg/L		-5	5			
WG555080LCSW	LCSW	11/16/22 10:49	PCN623304	100		95	mg/L	95	80	120			
L77172-04DUP	DUP	11/16/22 11:18			13	14	mg/L				7	10	RA

Selenium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG555285													
WG555285ICV	ICV	11/18/22 14:29	MS220930-3	.05		.05314	mg/L	106	90	110			
WG555285ICB	ICB	11/18/22 14:31				U	mg/L		-0.00022	0.00022			
WG555285LFB	LFB	11/18/22 14:56	MS221101-6	.05005		.04901	mg/L	98	85	115			
L77172-02AS	AS	11/18/22 15:38	MS221101-6	.05005	.00657	.05778	mg/L	102	70	130			
L77172-02ASD	ASD	11/18/22 15:39	MS221101-6	.05005	.00657	.06049	mg/L	108	70	130	5	20	

HECLARIO

ACZ Project ID: **L77172**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Silver, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG555285													
WG555285ICV	ICV	11/18/22 14:29	MS220930-3	.02		.02017	mg/L	101	90	110			
WG555285ICB	ICB	11/18/22 14:31				U	mg/L		-0.00022	0.00022			
WG555285LFB	LFB	11/18/22 14:56	MS221101-6	.01		.00906	mg/L	91	85	115			
L77172-02AS	AS	11/18/22 15:38	MS221101-6	.01	U	.00855	mg/L	86	70	130			
L77172-02ASD	ASD	11/18/22 15:39	MS221101-6	.01	U	.00892	mg/L	89	70	130	4	20	

Sodium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG556352													
WG556352ICV	ICV	12/08/22 23:19	II221116-1	100		98.22	mg/L	98	95	105			
WG556352ICB	ICB	12/08/22 23:25				U	mg/L		-0.6	0.6			
WG556352LFB	LFB	12/08/22 23:38	II221202-2	100.0023		97.9	mg/L	98	85	115			
L77174-07AS	AS	12/09/22 0:20	II221202-2	100.0023	288	371.6	mg/L	84	85	115			M2
L77174-07ASD	ASD	12/09/22 0:24	II221202-2	100.0023	288	371.5	mg/L	83	85	115	0	20	M2
WG556353													
WG556353ICV	ICV	12/09/22 19:22	II221116-1	100		98.98	mg/L	99	95	105			
WG556353ICB	ICB	12/09/22 19:28				U	mg/L		-0.6	0.6			
WG556353LFB	LFB	12/09/22 19:41	II221202-2	100.0023		103.7	mg/L	104	85	115			
L77063-01AS	AS	12/09/22 19:47	II221202-2	100.0023	27.9	123.4	mg/L	95	85	115			
L77063-01ASD	ASD	12/09/22 19:50	II221202-2	100.0023	27.9	127.2	mg/L	99	85	115	3	20	

Sulfate

D516-02/-07/-11 - TURBIDIMETRIC

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG555694													
WG555694ICB	ICB	11/29/22 12:27				U	mg/L		-3	3			
WG555694ICV	ICV	11/29/22 12:27	WI221116-8	20		19.5	mg/L	98	90	110			
WG555694LFB1	LFB	11/29/22 16:38	WI220830-3	10		9.6	mg/L	96	90	110			
L76617-07DUP	DUP	11/29/22 16:38			31.1	31.6	mg/L				2	20	
WG555694LFB2	LFB	11/29/22 17:30	WI220830-3	10		9.1	mg/L	91	90	110			
L76618-07AS	AS	11/29/22 17:54	SO4TURB2X	10	34.4	45	mg/L	106	90	110			

Zinc, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG556352													
WG556352ICV	ICV	12/08/22 23:19	II221116-1	2		1.921	mg/L	96	95	105			
WG556352ICB	ICB	12/08/22 23:25				U	mg/L		-0.06	0.06			
WG556352LFB	LFB	12/08/22 23:38	II221202-2	.50045		.506	mg/L	101	85	115			
L77174-07AS	AS	12/09/22 0:20	II221202-2	.50045	.106	.62	mg/L	103	85	115			
L77174-07ASD	ASD	12/09/22 0:24	II221202-2	.50045	.106	.608	mg/L	100	85	115	2	20	
WG556353													
WG556353ICV	ICV	12/09/22 19:22	II221116-1	2		1.896	mg/L	95	95	105			
WG556353ICB	ICB	12/09/22 19:28				U	mg/L		-0.06	0.06			
WG556353LFB	LFB	12/09/22 19:41	II221202-2	.50045		.532	mg/L	106	85	115			
L77063-01AS	AS	12/09/22 19:47	II221202-2	.50045	U	.499	mg/L	100	85	115			
L77063-01ASD	ASD	12/09/22 19:50	II221202-2	.50045	U	.514	mg/L	103	85	115	3	20	

Rio Grande Silver, Inc.

ACZ Project ID: **L77172**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L77172-01	WG555422	Aluminum, total recoverable	M200.8 ICP-MS	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG555911	Fluoride	SM4500F-C	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG555080	Residue, Non-Filterable (TSS) @105C	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg
	WG556352	Sodium, dissolved	M200.7 ICP	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
L77172-02	WG555422	Aluminum, total recoverable	M200.8 ICP-MS	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG555911	Fluoride	SM4500F-C	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG555080	Residue, Non-Filterable (TSS) @105C	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg
	WG556352	Sodium, dissolved	M200.7 ICP	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
L77172-03	WG555422	Aluminum, total recoverable	M200.8 ICP-MS	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG555911	Fluoride	SM4500F-C	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG555080	Residue, Non-Filterable (TSS) @105C	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg
	WG556352	Sodium, dissolved	M200.7 ICP	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
L77172-04	WG555911	Fluoride	SM4500F-C	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG555080	Residue, Non-Filterable (TSS) @105C	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg

Rio Grande Silver, Inc.

ACZ Project ID: **L77172**

No certification qualifiers associated with this analysis

Rio Grande Silver, Inc.
BO50352

ACZ Project ID: L77172
Date Received: 11/10/2022 12:39
Received By:
Date Printed: 11/11/2022

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?	☐	☐	☒
2) Is the Chain of Custody form or other directive shipping papers present?	☒	☐	☐
3) Does this project require special handling procedures such as CLP protocol?	☐	☒	☐
4) Are any samples NRC licensable material?	☐	☐	☒
5) If samples are received past hold time, proceed with requested short hold time analyses?	☒	☐	☐
6) Is the Chain of Custody form complete and accurate?	☒	☐	☐
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?	☐	☒	☐

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	☒	☐	☐
9) Are all labels on containers and are they intact and legible?	☒	☐	☐
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	☒	☐	☐
11) For preserved bottle types, was the pH checked and within limits? ¹	☒	☐	☐
12) Is there sufficient sample volume to perform all requested work?	☒	☐	☐
13) Is the custody seal intact on all containers?	☐	☐	☒
14) Are samples that require zero headspace acceptable?	☐	☐	☒
15) Are all sample containers appropriate for analytical requirements?	☒	☐	☐
16) Is there an Hg-1631 trip blank present?	☒	☐	☐
17) Is there a VOA trip blank present?	☐	☐	☒
18) Were all samples received within hold time?	☒	☐	☐

NA indicates Not Applicable

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Temp Criteria (°C)	Rad (µR/Hr)	Custody Seal Intact?
-----	-----	-----	-----	-----
6802	0.1	<=6.0	15	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

Rio Grande Silver, Inc.
BO50352

ACZ Project ID: L77172

Date Received: 11/10/2022 12:39

Received By:

Date Printed: 11/11/2022

¹ The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na₂S₂O₃ preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

ACZ**Laboratories, Inc.**

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

CHAIN of CUSTODY**Report to:**

Name: Randy McClure

Company: Rio Grande Silver, Inc.

E-mail: rmccclure@hecla-mining.com

Address: 625 USFS Road 504. 1A

Creede, CO 81130

Telephone: 719-658-1080

Copy of Report to:

Name: Randy McClure

Company: Rio Grande Silver, Inc.

rmccclure@hecla-mining.com

Telephone: 970-317-5355

Invoice to:

Name: Randy McClure

Company: Rio Grande Silver, Inc.

E-mail: rmccclure@hecla-mining.com

Address: 625 USFS Road 504. 1A

Creede, CO 81130

Telephone: 970-317-5355

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses?

YES ☒
NO ☐

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

Are samples for SDWA Compliance Monitoring?

Yes ☐No ☐

If yes, please include state forms. Results will be reported to PQL for Colorado.

Sampler's Name: Randy McClure

Sampler's Site Information

State CO

Zip code 81130

Time Zone MST

*Sampler's Signature:

*I attest to the authenticity and validity of this sample. I understand that mislabeling the time/date/location, or tampering with the sample in anyway, is considered fraud and punishable by State Law.

PROJECT INFORMATION

ANALYSES REQUESTED (attach list or use quote number)

Quote #: Rio Grande Silver, Inc.

PO#: BO50352

Reporting state for compliance testing:

Check box if samples include NRC licensed material? ☐

SAMPLE IDENTIFICATION

DATE:TIME

Matrix

of Containers

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers															
9360 UMP Intrsx 1	11/09/22 9:10 am	GW	5	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
9360 UMP Intrsx 2	11/09/22 9:20 am	GW	5	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
9360 UMP Mid 1	11/09/22 9:50 am	GW	5	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
9360 UMP Mid 2	11/09/22 9:55 am	GW	5	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Trip Blank	11/09/22 10:00 am	GW	1	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

Matrix SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

GW samples and any listed trip blanks should be included on one report. There is one cooler for this COC.
Please send an additional copy of the report to rmccclure@hecla-mining.com

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:

DATE:TIME

RECEIVED BY:

DATE:TIME

Randy McClure

11/2/22 11:15am

RCC

11/1/2022 12:39

ERMAD050.03.14.13

White - Return with sample. Yellow - Retain for your records.

L77172 Chain of Custody