

September 18, 2020

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: Janet Shangraw

Project ID: No BO# Used leftover bottles
ACZ Project ID: L61232

Randy McClure:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on September 02, 2020. This project has been assigned to ACZ's project number, L61232. 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 L61232. 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 October 18, 2020. 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.

September 18, 2020

Project ID: No BO# Used leftover bottles

ACZ Project ID: L61232

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 3 groundwater samples from Rio Grande Silver, Inc. on September 2, 2020. The samples were received in good condition. Upon receipt, the sample custodian removed the samples from the cooler, inspected the contents, and logged the samples into ACZ's computerized Laboratory Information Management System (LIMS). The samples were assigned ACZ LIMS project number L61232. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Holding Times

All analyses were performed within EPA recommended holding times.

Sample Analysis

These samples were analyzed for inorganic, organic parameters. The individual methods are referenced on both, the ACZ invoice and the analytical reports. The following required further explanation not provided by the Extended Qualifier Report:

1. TDS (N1) - Oven range is 80 C to 91 C. Over the weekend, the oven had a minor exceedance in oven temperature. When the oven temperature was checked on Monday 9/8/20, the max temp read at 92.0 C. The workgroup removed from the oven on 9/8/20 when the oven was back in range. The workgroup was examined and there was no splattering of samples.

Rio Grande Silver, Inc.

Project ID: No BO# Used leftover bottles

Sample ID: HW-2

ACZ Sample ID: **L61232-01**

Date Sampled: 09/01/20 10:15

Date Received: 09/02/20

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Nitrogen, total Kjeldahl	M351.2 - Block Digestor								09/08/20 14:50	rbt
Total Recoverable Digestion	M200.2 ICP-MS								09/15/20 9:50	mfm
Total Recoverable Digestion	M200.2 ICP								09/09/20 10:55	jlw

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1		U		mg/L	0.05	0.3	09/10/20 21:12	jlw
Aluminum, total recoverable	M200.7 ICP	1	1.16			mg/L	0.05	0.3	09/10/20 9:30	jlw
Arsenic, dissolved	M200.8 ICP-MS	1	0.0077			mg/L	0.0002	0.001	09/10/20 18:27	enb
Arsenic, total recoverable	M200.8 ICP-MS	1	0.0088			mg/L	0.0002	0.001	09/08/20 19:07	bsu
Cadmium, dissolved	M200.8 ICP-MS	1	0.00489			mg/L	0.00005	0.0003	09/14/20 13:01	bsu
Cadmium, total recoverable	M200.8 ICP-MS	1	0.00349			mg/L	0.00005	0.0003	09/16/20 17:08	mfm
Calcium, dissolved	M200.7 ICP	1	39.0			mg/L	0.1	0.5	09/10/20 21:12	jlw
Copper, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0008	0.002	09/10/20 18:27	enb
Copper, total recoverable	M200.8 ICP-MS	1	0.0011	B		mg/L	0.0008	0.002	09/08/20 19:07	bsu
Iron, dissolved	M200.7 ICP	1		U		mg/L	0.06	0.2	09/10/20 21:12	jlw
Iron, total recoverable	M200.7 ICP	1	0.70			mg/L	0.06	0.2	09/10/20 9:30	jlw
Lead, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	09/10/20 18:27	enb
Lead, total recoverable	M200.8 ICP-MS	1	0.0015			mg/L	0.0001	0.0005	09/08/20 19:07	bsu
Magnesium, dissolved	M200.7 ICP	1	3.5			mg/L	0.2	1	09/10/20 21:12	jlw
Manganese, dissolved	M200.7 ICP	1		U		mg/L	0.01	0.05	09/10/20 21:12	jlw
Manganese, total recoverable	M200.7 ICP	1	0.02	B		mg/L	0.01	0.05	09/10/20 9:30	jlw
Mercury, total	M245.1 CVAA	1		U		mg/L	0.0002	0.001	09/10/20 14:04	llr
Potassium, dissolved	M200.7 ICP	1	3.4			mg/L	0.2	1	09/10/20 21:12	jlw
Silver, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	09/11/20 12:37	mfm
Silver, total recoverable	M200.8 ICP-MS	1	0.0004	B		mg/L	0.0001	0.0005	09/08/20 19:07	bsu
Sodium, dissolved	M200.7 ICP	1	6.7			mg/L	0.2	1	09/10/20 21:12	jlw
Zinc, dissolved	M200.8 ICP-MS	1	0.727			mg/L	0.006	0.02	09/10/20 18:27	enb
Zinc, total recoverable	M200.8 ICP-MS	1	0.768			mg/L	0.006	0.02	09/08/20 19:07	bsu

Rio Grande Silver, Inc.

Project ID: No BO# Used leftover bottles

Sample ID: HW-2

ACZ Sample ID: **L61232-01**

Date Sampled: 09/01/20 10:15

Date Received: 09/02/20

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	25.5			mg/L	2	20	09/05/20 0:00	mlh
Carbonate as CaCO ₃		1		U		mg/L	2	20	09/05/20 0:00	mlh
Hydroxide as CaCO ₃		1		U		mg/L	2	20	09/05/20 0:00	mlh
Total Alkalinity		1	25.5			mg/L	2	20	09/05/20 0:00	mlh
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-3.7			%			09/18/20 0:00	calc
Sum of Anions			2.8			meq/L			09/18/20 0:00	calc
Sum of Cations			2.6			meq/L			09/18/20 0:00	calc
Chloride	M300.0 - Ion Chromatography	2	1.46	B	*	mg/L	0.8	4	09/10/20 3:36	krh
Fluoride	SM4500F-C	1	0.3	B		mg/L	0.1	0.4	09/10/20 17:52	emk
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		112			mg/L	0.2	5	09/18/20 0:00	calc
Nitrate as N, dissolved	Calculation: NO ₃ NO ₂ minus NO ₂		0.26			mg/L	0.02	0.1	09/18/20 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.26			mg/L	0.02	0.1	09/02/20 21:49	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1		U		mg/L	0.01	0.05	09/02/20 21:49	pjb
Nitrogen, ammonia	M350.1 Auto Salicylate w/gas diffusion	1		U	*	mg/L	0.05	0.2	09/11/20 16:02	mss2
Nitrogen, organic	M351.2 & M350.1 - TKN minus NH ₃			U		mg/L	0.2	0.5	09/18/20 0:00	calc
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	1		U	*	mg/L	0.2	0.5	09/09/20 23:20	pjb
pH (lab)	SM4500H+ B									
pH		1	7.1	H		units	0.1	0.1	09/05/20 0:00	mlh
pH measured at		1	20.8			C	0.1	0.1	09/05/20 0:00	mlh
Residue, Filterable (TDS) @180C	SM2540C	1	222		*	mg/L	20	40	09/04/20 12:36	che
Sulfate	M300.0 - Ion Chromatography	2	103			mg/L	0.8	4	09/10/20 3:36	krh
Sulfide as S	SM4500S2-D	1		U		mg/L	0.02	0.1	09/04/20 10:56	mlh
TDS (calculated)	Calculation		175			mg/L			09/18/20 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.27						09/18/20 0:00	calc

Rio Grande Silver, Inc.

Project ID: No BO# Used leftover bottles

Sample ID: GW-1

ACZ Sample ID: **L61232-02**

Date Sampled: 09/01/20 10:30

Date Received: 09/02/20

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Nitrogen, total Kjeldahl	M351.2 - Block Digestor								09/08/20 15:00	rbt
Total Recoverable Digestion	M200.2 ICP-MS								09/08/20 5:45	bsu
Total Recoverable Digestion	M200.2 ICP								09/09/20 11:10	jlw

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1		U		mg/L	0.05	0.3	09/10/20 21:15	jlw
Aluminum, total recoverable	M200.7 ICP	1	1.10			mg/L	0.05	0.3	09/10/20 9:33	jlw
Arsenic, dissolved	M200.8 ICP-MS	1	0.0074			mg/L	0.0002	0.001	09/10/20 18:30	enb
Arsenic, total recoverable	M200.8 ICP-MS	1	0.0091			mg/L	0.0002	0.001	09/08/20 19:09	bsu
Cadmium, dissolved	M200.8 ICP-MS	1	0.00339			mg/L	0.00005	0.0003	09/10/20 18:30	enb
Cadmium, total recoverable	M200.8 ICP-MS	1	0.00354			mg/L	0.00005	0.0003	09/08/20 19:09	bsu
Calcium, dissolved	M200.7 ICP	1	38.3			mg/L	0.1	0.5	09/10/20 21:15	jlw
Copper, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0008	0.002	09/10/20 18:30	enb
Copper, total recoverable	M200.8 ICP-MS	1	0.0011	B		mg/L	0.0008	0.002	09/08/20 19:09	bsu
Iron, dissolved	M200.7 ICP	1		U		mg/L	0.06	0.2	09/10/20 21:15	jlw
Iron, total recoverable	M200.7 ICP	1	0.61			mg/L	0.06	0.2	09/10/20 9:33	jlw
Lead, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	09/10/20 18:30	enb
Lead, total recoverable	M200.8 ICP-MS	1	0.0014			mg/L	0.0001	0.0005	09/08/20 19:09	bsu
Magnesium, dissolved	M200.7 ICP	1	3.5			mg/L	0.2	1	09/10/20 21:15	jlw
Manganese, dissolved	M200.7 ICP	1		U		mg/L	0.01	0.05	09/10/20 21:15	jlw
Manganese, total recoverable	M200.7 ICP	1	0.02	B		mg/L	0.01	0.05	09/10/20 9:33	jlw
Mercury, total	M245.1 CVAA	1		U		mg/L	0.0002	0.001	09/10/20 14:05	llr
Potassium, dissolved	M200.7 ICP	1	3.3			mg/L	0.2	1	09/10/20 21:15	jlw
Silver, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	09/11/20 12:39	mfm
Silver, total recoverable	M200.8 ICP-MS	1	0.0004	B		mg/L	0.0001	0.0005	09/08/20 19:09	bsu
Sodium, dissolved	M200.7 ICP	1	6.5			mg/L	0.2	1	09/10/20 21:15	jlw
Zinc, dissolved	M200.8 ICP-MS	1	0.726			mg/L	0.006	0.02	09/10/20 18:30	enb
Zinc, total recoverable	M200.8 ICP-MS	1	0.781			mg/L	0.006	0.02	09/08/20 19:09	bsu

Rio Grande Silver, Inc.

Project ID: No BO# Used leftover bottles

Sample ID: GW-1

ACZ Sample ID: **L61232-02**

Date Sampled: 09/01/20 10:30

Date Received: 09/02/20

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	25.2			mg/L	2	20	09/05/20 0:00	mlh
Carbonate as CaCO ₃		1		U		mg/L	2	20	09/05/20 0:00	mlh
Hydroxide as CaCO ₃		1		U		mg/L	2	20	09/05/20 0:00	mlh
Total Alkalinity		1	25.2			mg/L	2	20	09/05/20 0:00	mlh
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-3.7			%			09/18/20 0:00	calc
Sum of Anions			2.8			meq/L			09/18/20 0:00	calc
Sum of Cations			2.6			meq/L			09/18/20 0:00	calc
Chloride	M300.0 - Ion Chromatography	2	1.47	B	*	mg/L	0.8	4	09/10/20 3:54	krh
Fluoride	SM4500F-C	1	0.3	B		mg/L	0.1	0.4	09/10/20 17:55	emk
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		110			mg/L	0.2	5	09/18/20 0:00	calc
Nitrate as N, dissolved	Calculation: NO ₃ NO ₂ minus NO ₂		0.24			mg/L	0.02	0.1	09/18/20 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.24			mg/L	0.02	0.1	09/02/20 21:50	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1		U		mg/L	0.01	0.05	09/02/20 21:50	pjb
Nitrogen, ammonia	M350.1 Auto Salicylate w/gas diffusion	1		U	*	mg/L	0.05	0.2	09/11/20 16:03	mss2
Nitrogen, organic	M351.2 & M350.1 - TKN minus NH ₃			U		mg/L	0.2	0.5	09/18/20 0:00	calc
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	1		U	*	mg/L	0.2	0.5	09/09/20 23:21	pjb
pH (lab)	SM4500H+ B									
pH		1	7.1	H		units	0.1	0.1	09/05/20 0:00	mlh
pH measured at		1	20.7			C	0.1	0.1	09/05/20 0:00	mlh
Residue, Filterable (TDS) @180C	SM2540C	1	224		*	mg/L	20	40	09/04/20 12:37	che
Sulfate	M300.0 - Ion Chromatography	2	104			mg/L	0.8	4	09/10/20 3:54	krh
Sulfide as S	SM4500S2-D	1		U		mg/L	0.02	0.1	09/04/20 11:00	mlh
TDS (calculated)	Calculation		175			mg/L			09/18/20 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.28						09/18/20 0:00	calc

Rio Grande Silver, Inc.

Project ID: No BO# Used leftover bottles

Sample ID: DP-5

ACZ Sample ID: **L61232-03**

Date Sampled: 09/01/20 10:00

Date Received: 09/02/20

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Nitrogen, total Kjeldahl	M351.2 - Block Digestor								09/08/20 15:20	rbt
Total Recoverable Digestion	M200.2 ICP-MS								09/08/20 7:00	bsu
Total Recoverable Digestion	M200.2 ICP								09/09/20 11:25	jlw

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1		U		mg/L	0.05	0.3	09/10/20 21:19	jlw
Aluminum, total recoverable	M200.7 ICP	1	0.70			mg/L	0.05	0.3	09/10/20 9:36	jlw
Arsenic, dissolved	M200.8 ICP-MS	1	0.0113			mg/L	0.0002	0.001	09/10/20 18:33	enb
Arsenic, total recoverable	M200.8 ICP-MS	1	0.0263			mg/L	0.0002	0.001	09/08/20 19:11	bsu
Cadmium, dissolved	M200.8 ICP-MS	1	0.00171			mg/L	0.00005	0.0003	09/10/20 18:33	enb
Cadmium, total recoverable	M200.8 ICP-MS	1	0.00252			mg/L	0.00005	0.0003	09/08/20 19:11	bsu
Calcium, dissolved	M200.7 ICP	1	38.4			mg/L	0.1	0.5	09/10/20 21:19	jlw
Copper, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0008	0.002	09/10/20 18:33	enb
Copper, total recoverable	M200.8 ICP-MS	1	0.0034			mg/L	0.0008	0.002	09/08/20 19:11	bsu
Iron, dissolved	M200.7 ICP	1	0.73			mg/L	0.06	0.2	09/10/20 21:19	jlw
Iron, total recoverable	M200.7 ICP	1	3.55			mg/L	0.06	0.2	09/10/20 9:36	jlw
Lead, dissolved	M200.8 ICP-MS	1	0.0027			mg/L	0.0001	0.0005	09/10/20 18:33	enb
Lead, total recoverable	M200.8 ICP-MS	1	0.0466			mg/L	0.0001	0.0005	09/08/20 19:11	bsu
Magnesium, dissolved	M200.7 ICP	1	3.8			mg/L	0.2	1	09/10/20 21:19	jlw
Manganese, dissolved	M200.7 ICP	1	0.12			mg/L	0.01	0.05	09/10/20 21:19	jlw
Manganese, total recoverable	M200.7 ICP	1	0.14			mg/L	0.01	0.05	09/10/20 9:36	jlw
Mercury, total	M245.1 CVAA	1		U		mg/L	0.0002	0.001	09/10/20 14:06	llr
Potassium, dissolved	M200.7 ICP	1	2.7			mg/L	0.2	1	09/10/20 21:19	jlw
Silver, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	09/11/20 12:41	mfm
Silver, total recoverable	M200.8 ICP-MS	1	0.0004	B		mg/L	0.0001	0.0005	09/08/20 19:11	bsu
Sodium, dissolved	M200.7 ICP	1	9.6			mg/L	0.2	1	09/10/20 21:19	jlw
Zinc, dissolved	M200.8 ICP-MS	1	2.97			mg/L	0.006	0.02	09/10/20 18:33	enb
Zinc, total recoverable	M200.8 ICP-MS	1	4.8			mg/L	0.006	0.02	09/08/20 19:11	bsu

Rio Grande Silver, Inc.

Project ID: No BO# Used leftover bottles

Sample ID: DP-5

ACZ Sample ID: **L61232-03**

Date Sampled: 09/01/20 10:00

Date Received: 09/02/20

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	85.3			mg/L	2	20	09/05/20 0:00	mlh
Carbonate as CaCO ₃		1		U		mg/L	2	20	09/05/20 0:00	mlh
Hydroxide as CaCO ₃		1		U		mg/L	2	20	09/05/20 0:00	mlh
Total Alkalinity		1	85.3			mg/L	2	20	09/05/20 0:00	mlh
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-4.9			%			09/18/20 0:00	calc
Sum of Anions			3.2			meq/L			09/18/20 0:00	calc
Sum of Cations			2.9			meq/L			09/18/20 0:00	calc
Chloride	M300.0 - Ion Chromatography	1	2.82		*	mg/L	0.4	2	09/10/20 21:53	krh
Fluoride	SM4500F-C	1	0.4			mg/L	0.1	0.4	09/10/20 17:58	emk
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		112			mg/L	0.2	5	09/18/20 0:00	calc
Nitrate as N, dissolved	Calculation: NO ₃ NO ₂ minus NO ₂		0.58			mg/L	0.02	0.1	09/18/20 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.58			mg/L	0.02	0.1	09/02/20 21:51	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1		U		mg/L	0.01	0.05	09/02/20 21:51	pjb
Nitrogen, ammonia	M350.1 Auto Salicylate w/gas diffusion	1		U	*	mg/L	0.05	0.2	09/11/20 16:05	mss2
Nitrogen, organic	M351.2 & M350.1 - TKN minus NH ₃			U		mg/L	0.2	0.5	09/18/20 0:00	calc
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	1		U	*	mg/L	0.2	0.5	09/09/20 23:23	pjb
pH (lab)	SM4500H+ B									
pH		1	7.5	H		units	0.1	0.1	09/05/20 0:00	mlh
pH measured at		1	20.5			C	0.1	0.1	09/05/20 0:00	mlh
Residue, Filterable (TDS) @180C	SM2540C	1	210		*	mg/L	20	40	09/04/20 12:38	che
Sulfate	M300.0 - Ion Chromatography	1	64.1			mg/L	0.4	2	09/10/20 21:53	krh
Sulfide as S	SM4500S2-D	1	0.03	B		mg/L	0.02	0.1	09/04/20 11:03	mlh
TDS (calculated)	Calculation		180			mg/L			09/18/20 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.17						09/18/20 0:00	calc

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>

Rio Grande Silver, Inc.

ACZ Project ID: **L61232**

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.

Alkalinity as CaCO3

SM2320B - Titration

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG504640													
WG504640PBW1	PBW	09/04/20 13:28				5.1	mg/L		-20	20			
WG504640LCSW3	LCSW	09/04/20 13:47	WC200828-9	820.0001		842	mg/L	103	90	110			
WG504640LCSW6	LCSW	09/04/20 16:49	WC200828-9	820.0001		846	mg/L	103	90	110			
WG504640PBW2	PBW	09/04/20 16:58				2.3	mg/L		-20	20			
WG504640LCSW9	LCSW	09/04/20 20:50	WC200828-9	820.0001		852	mg/L	104	90	110			
WG504640PBW3	PBW	09/04/20 21:00				2.5	mg/L		-20	20			
WG504640LCSW12	LCSW	09/05/20 0:52	WC200828-9	820.0001		842	mg/L	103	90	110			
WG504640PBW4	PBW	09/05/20 1:01				2.4	mg/L		-20	20			
L61244-02DUP	DUP	09/05/20 2:34			57.1	57.2	mg/L				0	20	
WG504640LCSW15	LCSW	09/05/20 4:16	WC200828-9	820.0001		858	mg/L	105	90	110			

Aluminum, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG504882													
WG504882ICV	ICV	09/10/20 19:29	II200828-1	2		1.957	mg/L	98	95	105			
WG504882ICB	ICB	09/10/20 19:35				U	mg/L		-0.15	0.15			
WG504882PQV	PQV	09/10/20 19:38	II200903-4	.2503		.257	mg/L	103	70	130			
WG504882SIC	SIC	09/10/20 19:41	II200903-2	200.5103		197.7	mg/L	99	1	200			
WG504882LFB	LFB	09/10/20 19:48	II200903-6	1.0012		1.06	mg/L	106	85	115			
WG504882CCV1	CCV	09/10/20 20:20	II200828-2	1		.986	mg/L	99	90	110			
WG504882CCB1	CCB	09/10/20 20:23				U	mg/L		-0.15	0.15			
WG504882CCV2	CCV	09/10/20 20:59	II200828-2	1		.977	mg/L	98	90	110			
WG504882CCB2	CCB	09/10/20 21:03				U	mg/L		-0.15	0.15			
L61222-03AS	AS	09/10/20 21:06	II200903-6	1.0012	U	1.064	mg/L	106	85	115			
L61222-03ASD	ASD	09/10/20 21:09	II200903-6	1.0012	U	1.046	mg/L	104	85	115	2	20	
WG504882CCV3	CCV	09/10/20 21:22	II200828-2	1		.969	mg/L	97	90	110			
WG504882CCB3	CCB	09/10/20 21:25				U	mg/L		-0.15	0.15			

Aluminum, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG504856													
WG504856ICV	ICV	09/10/20 8:58	II200828-1	2		1.926	mg/L	96	95	105			
WG504856ICB	ICB	09/10/20 9:04				U	mg/L		-0.15	0.15			
WG504856PQV	PQV	09/10/20 9:07	II200903-4	.2503		.222	mg/L	89	70	130			
WG504856SIC	SIC	09/10/20 9:10	II200903-2	200.5103		195.6	mg/L	98	1	200			
WG504768LRB	LRB	09/10/20 9:17				U	mg/L		-0.11	0.11			
WG504768LFB	LFB	09/10/20 9:20	II200903-6	1.0012		.943	mg/L	94	85	115			
L61232-03LFM	LFM	09/10/20 9:39	II200903-6	1.0012	.7	1.798	mg/L	110	70	130			
L61232-03LFMD	LFMD	09/10/20 9:42	II200903-6	1.0012	.7	1.855	mg/L	115	70	130	3	20	
WG504856CCV1	CCV	09/10/20 9:49	II200828-2	1		.92	mg/L	92	90	110			
WG504856CCB1	CCB	09/10/20 9:52				U	mg/L		-0.15	0.15			
WG504856CCV2	CCV	09/10/20 10:28	II200828-2	1		.905	mg/L	91	90	110			
WG504856CCB2	CCB	09/10/20 10:31				U	mg/L		-0.15	0.15			
WG504856CCV3	CCV	09/10/20 10:47	II200828-2	1		.909	mg/L	91	90	110			
WG504856CCB3	CCB	09/10/20 10:50				U	mg/L		-0.15	0.15			

Rio Grande Silver, Inc.

ACZ Project ID: **L61232**

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.

Arsenic, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG504932													
WG504932ICV	ICV	09/10/20 17:06	MS200812-2	.05		.04913	mg/L	98	90	110			
WG504932ICB	ICB	09/10/20 17:09				U	mg/L		-0.00044	0.00044			
WG504932LFB	LFB	09/10/20 17:12	MS200803-2	.05005		.04886	mg/L	98	85	115			
WG504932CCV1	CCV	09/10/20 17:43	MS200908-4	.1001		.09953	mg/L	99	90	110			
WG504932CCB1	CCB	09/10/20 17:46				U	mg/L		-0.0006	0.0006			
L61217-09AS	AS	09/10/20 18:11	MS200803-2	.1001	.0012	.10058	mg/L	99	70	130			
L61217-09ASD	ASD	09/10/20 18:14	MS200803-2	.1001	.0012	.10336	mg/L	102	70	130	3	20	
WG504932CCV2	CCV	09/10/20 18:21	MS200908-4	.1001		.1017	mg/L	102	90	110			
WG504932CCB2	CCB	09/10/20 18:24				U	mg/L		-0.0006	0.0006			
WG504932CCV3	CCV	09/10/20 18:43	MS200908-4	.1001		.1031	mg/L	103	90	110			
WG504932CCB3	CCB	09/10/20 18:46				U	mg/L		-0.0006	0.0006			

Arsenic, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG504755													
WG504755ICV	ICV	09/08/20 18:37	MS200812-2	.05		.05069	mg/L	101	90	110			
WG504755ICB	ICB	09/08/20 18:39				U	mg/L		-0.0006	0.0006			
WG504689LRB	LRB	09/08/20 18:41				U	mg/L		-0.00044	0.00044			
WG504689LFB	LFB	09/08/20 18:43	MS200803-2	.05005		.05184	mg/L	104	85	115			
L61228-03LFM	LFM	09/08/20 18:50	MS200803-2	.05005	.0009	.0533	mg/L	105	70	130			
L61228-03LFMD	LFMD	09/08/20 18:52	MS200803-2	.05005	.0009	.05311	mg/L	104	70	130	0	20	
WG504755CCV1	CCV	09/08/20 18:56	MS200908-4	.1001		.1007	mg/L	101	90	110			
WG504755CCB1	CCB	09/08/20 18:57				U	mg/L		-0.0006	0.0006			
WG504755CCV2	CCV	09/08/20 19:18	MS200908-4	.1001		.10155	mg/L	101	90	110			
WG504755CCB2	CCB	09/08/20 19:20				U	mg/L		-0.0006	0.0006			
L61249-02LFM	LFM	09/08/20 19:25	MS200803-2	.05005	U	.0519	mg/L	104	70	130			
L61249-02LFMD	LFMD	09/08/20 19:27	MS200803-2	.05005	U	.05192	mg/L	104	70	130	0	20	
WG504755CCV3	CCV	09/08/20 19:37	MS200908-4	.1001		.10249	mg/L	102	90	110			
WG504755CCB3	CCB	09/08/20 19:38				U	mg/L		-0.0006	0.0006			

Rio Grande Silver, Inc.

ACZ Project ID: **L61232**

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.

Cadmium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG504932													
WG504932ICV	ICV	09/10/20 17:06	MS200812-2	.05		.04628	mg/L	93	90	110			
WG504932ICB	ICB	09/10/20 17:09				U	mg/L		-0.00011	0.00011			
WG504932LFB	LFB	09/10/20 17:12	MS200803-2	.05005		.04627	mg/L	92	85	115			
WG504932CCV1	CCV	09/10/20 17:43	MS200908-4	.1001		.09934	mg/L	99	90	110			
WG504932CCB1	CCB	09/10/20 17:46				U	mg/L		-0.00015	0.00015			
L61217-09AS	AS	09/10/20 18:11	MS200803-2	.1001	U	.09092	mg/L	91	70	130			
L61217-09ASD	ASD	09/10/20 18:14	MS200803-2	.1001	U	.0908	mg/L	91	70	130	0	20	
WG504932CCV2	CCV	09/10/20 18:21	MS200908-4	.1001		.09896	mg/L	99	90	110			
WG504932CCB2	CCB	09/10/20 18:24				U	mg/L		-0.00015	0.00015			
WG504932CCV3	CCV	09/10/20 18:43	MS200908-4	.1001		.09988	mg/L	100	90	110			
WG504932CCB3	CCB	09/10/20 18:46				U	mg/L		-0.00015	0.00015			
WG505045													
WG505045ICV	ICV	09/14/20 12:31	MS200812-2	.05		.050785	mg/L	102	90	110			
WG505045ICB	ICB	09/14/20 12:32				U	mg/L		-0.00011	0.00011			
WG505045LFB	LFB	09/14/20 12:34	MS200803-2	.05005		.04805	mg/L	96	85	115			
WG505045CCV1	CCV	09/14/20 12:38	MS200908-4	.1001		.098289	mg/L	98	90	110			
WG505045CCB1	CCB	09/14/20 12:40				U	mg/L		-0.00015	0.00015			
L60987-04AS	AS	09/14/20 12:45	MS200803-2	.05005	U	.050723	mg/L	101	70	130			
L60987-04ASD	ASD	09/14/20 12:47	MS200803-2	.05005	U	.052607	mg/L	105	70	130	4	20	
WG505045CCV2	CCV	09/14/20 12:54	MS200908-4	.1001		.109674	mg/L	110	90	110			
WG505045CCB2	CCB	09/14/20 12:56				U	mg/L		-0.00015	0.00015			
WG505045CCV3	CCV	09/14/20 13:16	MS200908-4	.1001		.098698	mg/L	99	90	110			
WG505045CCB3	CCB	09/14/20 13:18				.000052	mg/L		-0.00015	0.00015			
WG505045CCV4	CCV	09/14/20 13:28	MS200908-4	.1001		.098901	mg/L	99	90	110			
WG505045CCB4	CCB	09/14/20 13:30				U	mg/L		-0.00015	0.00015			

Rio Grande Silver, Inc.

ACZ Project ID: **L61232**

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Cadmium, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG504755													
WG504755ICV	ICV	09/08/20 18:37	MS200812-2	.05		.049059	mg/L	98	90	110			
WG504755ICB	ICB	09/08/20 18:39				U	mg/L		-0.00015	0.00015			
WG504689LRB	LRB	09/08/20 18:41				U	mg/L		-0.00011	0.00011			
WG504689LFB	LFB	09/08/20 18:43	MS200803-2	.05005		.047915	mg/L	96	85	115			
L61228-03LFM	LFM	09/08/20 18:50	MS200803-2	.05005	.00019	.048222	mg/L	96	70	130			
L61228-03LFMD	LFMD	09/08/20 18:52	MS200803-2	.05005	.00019	.048672	mg/L	97	70	130	1	20	
WG504755CCV1	CCV	09/08/20 18:56	MS200908-4	.1001		.100157	mg/L	100	90	110			
WG504755CCB1	CCB	09/08/20 18:57				U	mg/L		-0.00015	0.00015			
WG504755CCV2	CCV	09/08/20 19:18	MS200908-4	.1001		.101374	mg/L	101	90	110			
WG504755CCB2	CCB	09/08/20 19:20				U	mg/L		-0.00015	0.00015			
L61249-02LFM	LFM	09/08/20 19:25	MS200803-2	.05005	U	.048718	mg/L	97	70	130			
L61249-02LFMD	LFMD	09/08/20 19:27	MS200803-2	.05005	U	.049537	mg/L	99	70	130	2	20	
WG504755CCV3	CCV	09/08/20 19:37	MS200908-4	.1001		.100939	mg/L	101	90	110			
WG504755CCB3	CCB	09/08/20 19:38				U	mg/L		-0.00015	0.00015			
WG505292													
WG505292ICV	ICV	09/16/20 17:01	MS200812-2	.05		.045557	mg/L	91	90	110			
WG505292ICB	ICB	09/16/20 17:02				U	mg/L		-0.00015	0.00015			
WG505118LRB	LRB	09/16/20 17:04				U	mg/L		-0.00011	0.00011			
WG505118LFB	LFB	09/16/20 17:06	MS200803-2	.05005		.045885	mg/L	92	85	115			
L61368-01LFM	LFM	09/16/20 17:15	MS200803-2	.05005	.00007	.044796	mg/L	89	70	130			
L61368-01LFMD	LFMD	09/16/20 17:17	MS200803-2	.05005	.00007	.044041	mg/L	88	70	130	2	20	
WG505292CCV1	CCV	09/16/20 17:22	MS200908-4	.1001		.098564	mg/L	98	90	110			
WG505292CCB1	CCB	09/16/20 17:24				U	mg/L		-0.00015	0.00015			
WG505292CCV2	CCV	09/16/20 17:44	MS200908-4	.1001		.098135	mg/L	98	90	110			
WG505292CCB2	CCB	09/16/20 17:46				.000051	mg/L		-0.00015	0.00015			
WG505292CCV3	CCV	09/16/20 17:58	MS200908-4	.1001		.099823	mg/L	100	90	110			
WG505292CCB3	CCB	09/16/20 18:00				.000264	mg/L		-0.00015	0.00015			BB

Calcium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG504882													
WG504882ICV	ICV	09/10/20 19:29	II200828-1	100		98.14	mg/L	98	95	105			
WG504882ICB	ICB	09/10/20 19:35				U	mg/L		-0.3	0.3			
WG504882PQV	PQV	09/10/20 19:38	II200903-4	.5006		.48	mg/L	96	70	130			
WG504882SIC	SIC	09/10/20 19:41	II200903-2	200.7406		197.8	mg/L	99	1	200			
WG504882LFB	LFB	09/10/20 19:48	II200903-6	67.99353		70.91	mg/L	104	85	115			
WG504882CCV1	CCV	09/10/20 20:20	II200828-2	50		49.27	mg/L	99	90	110			
WG504882CCB1	CCB	09/10/20 20:23				.13	mg/L		-0.3	0.3			
WG504882CCV2	CCV	09/10/20 20:59	II200828-2	50		49.51	mg/L	99	90	110			
WG504882CCB2	CCB	09/10/20 21:03				.14	mg/L		-0.3	0.3			
L61222-03AS	AS	09/10/20 21:06	II200903-6	67.99353	67.4	135.6	mg/L	100	85	115			
L61222-03ASD	ASD	09/10/20 21:09	II200903-6	67.99353	67.4	132.5	mg/L	96	85	115	2	20	
WG504882CCV3	CCV	09/10/20 21:22	II200828-2	50		48.93	mg/L	98	90	110			
WG504882CCB3	CCB	09/10/20 21:25				.13	mg/L		-0.3	0.3			

Rio Grande Silver, Inc.

ACZ Project ID: **L61232**

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.

Chloride

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG504321													
WG504321ICV	ICV	08/27/20 21:17	WI200827-5	20.02		19.9	mg/L	99	90	110			
WG504321ICB	ICB	08/27/20 21:35				U	mg/L		-0.4	0.4			
WG504801													
WG504801CCV1	CCV	09/09/20 19:50	WI200908-5	50		49.6	mg/L	99	90	110			
WG504801CCB1	CCB	09/09/20 20:08				U	mg/L		-0.4	0.4			
WG504801PQV	PQV	09/09/20 20:26	WI200908-4	2.002		1.91	mg/L	95	70	130			
WG504801CCV2	CCV	09/09/20 23:25	WI200908-5	50		49.5	mg/L	99	90	110			
WG504801CCB2	CCB	09/09/20 23:43				U	mg/L		-0.4	0.4			
L61201-01DUP	DUP	09/10/20 1:30			U	U	mg/L				0	20	RA
L61201-02AS	AS	09/10/20 2:06	WI200701-1	600	U	608	mg/L	101	90	110			
WG504801CCV3	CCV	09/10/20 3:00	WI200908-5	50		49.3	mg/L	99	90	110			
WG504801CCB3	CCB	09/10/20 3:18				U	mg/L		-0.4	0.4			
WG504801CCV4	CCV	09/10/20 5:23	WI200908-5	50		49.6	mg/L	99	90	110			
WG504801CCB4	CCB	09/10/20 5:41				U	mg/L		-0.4	0.4			
WG504801CCV5	CCV	09/10/20 17:24	WI200908-5	50		49.6	mg/L	99	90	110			
WG504801CCB5	CCB	09/10/20 17:42				U	mg/L		-0.4	0.4			
WG504801PQV1	PQV	09/10/20 18:00	WI200908-4	2.002		1.91	mg/L	95	70	130			
WG504801LFB	LFB	09/10/20 18:18	WI200701-1	30		29.6	mg/L	99	90	110			
WG504801CCV6	CCV	09/10/20 20:59	WI200908-5	50		49.6	mg/L	99	90	110			
WG504801CCB6	CCB	09/10/20 21:17				U	mg/L		-0.4	0.4			
WG504801CCV7	CCV	09/10/20 22:29	WI200908-5	50		50	mg/L	100	90	110			
WG504801CCB7	CCB	09/10/20 22:47				U	mg/L		-0.4	0.4			

Copper, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG504932													
WG504932ICV	ICV	09/10/20 17:06	MS200812-2	.05		.04954	mg/L	99	90	110			
WG504932ICB	ICB	09/10/20 17:09				U	mg/L		-0.00176	0.00176			
WG504932LFB	LFB	09/10/20 17:12	MS200803-2	.0501		.04771	mg/L	95	85	115			
WG504932CCV1	CCV	09/10/20 17:43	MS200908-4	.2505		.2508	mg/L	100	90	110			
WG504932CCB1	CCB	09/10/20 17:46				U	mg/L		-0.0024	0.0024			
L61217-09AS	AS	09/10/20 18:11	MS200803-2	.1002	U	.0909	mg/L	91	70	130			
L61217-09ASD	ASD	09/10/20 18:14	MS200803-2	.1002	U	.0931	mg/L	93	70	130	2	20	
WG504932CCV2	CCV	09/10/20 18:21	MS200908-4	.2505		.2568	mg/L	103	90	110			
WG504932CCB2	CCB	09/10/20 18:24				U	mg/L		-0.0024	0.0024			
WG504932CCV3	CCV	09/10/20 18:43	MS200908-4	.2505		.2573	mg/L	103	90	110			
WG504932CCB3	CCB	09/10/20 18:46				U	mg/L		-0.0024	0.0024			

Rio Grande Silver, Inc.

ACZ Project ID: **L61232**

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, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG504755													
WG504755ICV	ICV	09/08/20 18:37	MS200812-2	.05		.05244	mg/L	105	90	110			
WG504755ICB	ICB	09/08/20 18:39				U	mg/L		-0.0024	0.0024			
WG504689LRB	LRB	09/08/20 18:41				U	mg/L		-0.00176	0.00176			
WG504689LFB	LFB	09/08/20 18:43	MS200803-2	.0501		.05251	mg/L	105	85	115			
L61228-03LFM	LFM	09/08/20 18:50	MS200803-2	.0501	U	.05223	mg/L	104	70	130			
L61228-03LFMD	LFMD	09/08/20 18:52	MS200803-2	.0501	U	.05217	mg/L	104	70	130	0	20	
WG504755CCV1	CCV	09/08/20 18:56	MS200908-4	.2505		.25266	mg/L	101	90	110			
WG504755CCB1	CCB	09/08/20 18:57				U	mg/L		-0.0024	0.0024			
WG504755CCV2	CCV	09/08/20 19:18	MS200908-4	.2505		.25325	mg/L	101	90	110			
WG504755CCB2	CCB	09/08/20 19:20				U	mg/L		-0.0024	0.0024			
L61249-02LFM	LFM	09/08/20 19:25	MS200803-2	.0501	U	.05252	mg/L	105	70	130			
L61249-02LFMD	LFMD	09/08/20 19:27	MS200803-2	.0501	U	.0526	mg/L	105	70	130	0	20	
WG504755CCV3	CCV	09/08/20 19:37	MS200908-4	.2505		.25447	mg/L	102	90	110			
WG504755CCB3	CCB	09/08/20 19:38				U	mg/L		-0.0024	0.0024			

Fluoride

SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG504918													
WG504918ICV	ICV	09/10/20 12:24	WC200828-7	2.002		1.97	mg/L	98	90	110			
WG504918ICB	ICB	09/10/20 12:32				U	mg/L		-0.3	0.3			
WG504924													
WG504924ICV	ICV	09/10/20 14:39	WC200910-3	2.002		1.9	mg/L	95	90	110			
WG504924ICB	ICB	09/10/20 14:47				U	mg/L		-0.3	0.3			
WG504924PQV	PQV	09/10/20 14:51	WC200901-7	.35		.32	mg/L	91	70	130			
WG504924LFB1	LFB	09/10/20 14:54	WC200511-1	5		4.57	mg/L	91	90	110			
WG504924CCV1	CCV	09/10/20 15:48	WC200910-3	2.002		1.88	mg/L	94	90	110			
WG504924CCB1	CCB	09/10/20 15:56				U	mg/L		-0.3	0.3			
WG504924CCV2	CCV	09/10/20 16:37	WC200910-3	2.002		1.9	mg/L	95	90	110			
WG504924CCB2	CCB	09/10/20 16:45				U	mg/L		-0.3	0.3			
WG504924LFB2	LFB	09/10/20 17:06	WC200511-1	5		4.61	mg/L	92	90	110			
L61229-03AS	AS	09/10/20 17:12	WC200511-1	5	.2	4.82	mg/L	92	90	110			
L61229-03ASD	ASD	09/10/20 17:15	WC200511-1	5	.2	4.79	mg/L	92	90	110	1	20	
WG504924CCV3	CCV	09/10/20 17:22	WC200910-3	2.002		1.91	mg/L	95	90	110			
WG504924CCB3	CCB	09/10/20 17:30				U	mg/L		-0.3	0.3			
WG504924CCV4	CCV	09/10/20 18:11	WC200910-3	2.002		1.95	mg/L	97	90	110			
WG504924CCB4	CCB	09/10/20 18:19				U	mg/L		-0.3	0.3			
WG504924CCV5	CCV	09/10/20 18:58	WC200910-3	2.002		1.89	mg/L	94	90	110			
WG504924CCB5	CCB	09/10/20 19:05				U	mg/L		-0.3	0.3			

Rio Grande Silver, Inc.

ACZ Project ID: **L61232**

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
WG504882													
WG504882ICV	ICV	09/10/20 19:29	II200828-1	2		1.946	mg/L	97	95	105			
WG504882ICB	ICB	09/10/20 19:35				U	mg/L		-0.18	0.18			
WG504882PQV	PQV	09/10/20 19:38	II200903-4	.15027		.152	mg/L	101	70	130			
WG504882SIC	SIC	09/10/20 19:41	II200903-2	200.51027		190.6	mg/L	95	1	200			
WG504882LFB	LFB	09/10/20 19:48	II200903-6	1.0018		1.092	mg/L	109	85	115			
WG504882CCV1	CCV	09/10/20 20:20	II200828-2	1		.978	mg/L	98	90	110			
WG504882CCB1	CCB	09/10/20 20:23				U	mg/L		-0.18	0.18			
WG504882CCV2	CCV	09/10/20 20:59	II200828-2	1		.982	mg/L	98	90	110			
WG504882CCB2	CCB	09/10/20 21:03				U	mg/L		-0.18	0.18			
L61222-03AS	AS	09/10/20 21:06	II200903-6	1.0018	U	1.077	mg/L	108	85	115			
L61222-03ASD	ASD	09/10/20 21:09	II200903-6	1.0018	U	1.057	mg/L	106	85	115	2	20	
WG504882CCV3	CCV	09/10/20 21:22	II200828-2	1		.972	mg/L	97	90	110			
WG504882CCB3	CCB	09/10/20 21:25				U	mg/L		-0.18	0.18			

Iron, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG504856													
WG504856ICV	ICV	09/10/20 8:58	II200828-1	2		1.907	mg/L	95	95	105			
WG504856ICB	ICB	09/10/20 9:04				U	mg/L		-0.18	0.18			
WG504856PQV	PQV	09/10/20 9:07	II200903-4	.15027		.144	mg/L	96	70	130			
WG504856SIC	SIC	09/10/20 9:10	II200903-2	200.51027		188.8	mg/L	94	1	200			
WG504768LRB	LRB	09/10/20 9:17				U	mg/L		-0.132	0.132			
WG504768LFB	LFB	09/10/20 9:20	II200903-6	1.0018		.976	mg/L	97	85	115			
L61232-03LFM	LFM	09/10/20 9:39	II200903-6	1.0018	3.55	4.421	mg/L	87	70	130			
L61232-03LFMD	LFMD	09/10/20 9:42	II200903-6	1.0018	3.55	4.488	mg/L	94	70	130	2	20	
WG504856CCV1	CCV	09/10/20 9:49	II200828-2	1		.929	mg/L	93	90	110			
WG504856CCB1	CCB	09/10/20 9:52				U	mg/L		-0.18	0.18			
WG504856CCV2	CCV	09/10/20 10:28	II200828-2	1		.913	mg/L	91	90	110			
WG504856CCB2	CCB	09/10/20 10:31				U	mg/L		-0.18	0.18			
WG504856CCV3	CCV	09/10/20 10:47	II200828-2	1		.925	mg/L	93	90	110			
WG504856CCB3	CCB	09/10/20 10:50				U	mg/L		-0.18	0.18			

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG504932													
WG504932ICV	ICV	09/10/20 17:06	MS200812-2	.05		.05049	mg/L	101	90	110			
WG504932ICB	ICB	09/10/20 17:09				U	mg/L		-0.00022	0.00022			
WG504932LFB	LFB	09/10/20 17:12	MS200803-2	.05005		.04883	mg/L	98	85	115			
WG504932CCV1	CCV	09/10/20 17:43	MS200908-4	.25025		.2316	mg/L	93	90	110			
WG504932CCB1	CCB	09/10/20 17:46				U	mg/L		-0.0003	0.0003			
L61217-09AS	AS	09/10/20 18:11	MS200803-2	.1001	U	.0984	mg/L	98	70	130			
L61217-09ASD	ASD	09/10/20 18:14	MS200803-2	.1001	U	.09832	mg/L	98	70	130	0	20	
WG504932CCV2	CCV	09/10/20 18:21	MS200908-4	.25025		.2481	mg/L	99	90	110			
WG504932CCB2	CCB	09/10/20 18:24				U	mg/L		-0.0003	0.0003			
WG504932CCV3	CCV	09/10/20 18:43	MS200908-4	.25025		.2509	mg/L	100	90	110			
WG504932CCB3	CCB	09/10/20 18:46				U	mg/L		-0.0003	0.0003			

Rio Grande Silver, Inc.

ACZ Project ID: **L61232**

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, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG504755													
WG504755ICV	ICV	09/08/20 18:37	MS200812-2	.05		.05205	mg/L	104	90	110			
WG504755ICB	ICB	09/08/20 18:39				U	mg/L		-0.0003	0.0003			
WG504689LRB	LRB	09/08/20 18:41				U	mg/L		-0.00022	0.00022			
WG504689LFB	LFB	09/08/20 18:43	MS200803-2	.05005		.04995	mg/L	100	85	115			
L61228-03LFM	LFM	09/08/20 18:50	MS200803-2	.05005	.0011	.05145	mg/L	101	70	130			
L61228-03LFMD	LFMD	09/08/20 18:52	MS200803-2	.05005	.0011	.0516	mg/L	101	70	130	0	20	
WG504755CCV1	CCV	09/08/20 18:56	MS200908-4	.25025		.25263	mg/L	101	90	110			
WG504755CCB1	CCB	09/08/20 18:57				.0001	mg/L		-0.0003	0.0003			
WG504755CCV2	CCV	09/08/20 19:18	MS200908-4	.25025		.25422	mg/L	102	90	110			
WG504755CCB2	CCB	09/08/20 19:20				U	mg/L		-0.0003	0.0003			
L61249-02LFM	LFM	09/08/20 19:25	MS200803-2	.05005	U	.05085	mg/L	102	70	130			
L61249-02LFMD	LFMD	09/08/20 19:27	MS200803-2	.05005	U	.0515	mg/L	103	70	130	1	20	
WG504755CCV3	CCV	09/08/20 19:37	MS200908-4	.25025		.25273	mg/L	101	90	110			
WG504755CCB3	CCB	09/08/20 19:38				U	mg/L		-0.0003	0.0003			

Magnesium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG504882													
WG504882ICV	ICV	09/10/20 19:29	II200828-1	100		97.03	mg/L	97	95	105			
WG504882ICB	ICB	09/10/20 19:35				U	mg/L		-0.6	0.6			
WG504882PQV	PQV	09/10/20 19:38	II200903-4	1		.9	mg/L	90	70	130			
WG504882SIC	SIC	09/10/20 19:41	II200903-2	201		203.8	mg/L	101	1	200			
WG504882LFB	LFB	09/10/20 19:48	II200903-6	49.99922		50.31	mg/L	101	85	115			
WG504882CCV1	CCV	09/10/20 20:20	II200828-2	50		48.32	mg/L	97	90	110			
WG504882CCB1	CCB	09/10/20 20:23				U	mg/L		-0.6	0.6			
WG504882CCV2	CCV	09/10/20 20:59	II200828-2	50		48.76	mg/L	98	90	110			
WG504882CCB2	CCB	09/10/20 21:03				U	mg/L		-0.6	0.6			
L61222-03AS	AS	09/10/20 21:06	II200903-6	49.99922	7.7	57.89	mg/L	100	85	115			
L61222-03ASD	ASD	09/10/20 21:09	II200903-6	49.99922	7.7	56.57	mg/L	98	85	115	2	20	
WG504882CCV3	CCV	09/10/20 21:22	II200828-2	50		48.15	mg/L	96	90	110			
WG504882CCB3	CCB	09/10/20 21:25				U	mg/L		-0.6	0.6			

Manganese, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG504882													
WG504882ICV	ICV	09/10/20 19:29	II200828-1	2		1.924	mg/L	96	95	105			
WG504882ICB	ICB	09/10/20 19:35				U	mg/L		-0.03	0.03			
WG504882PQV	PQV	09/10/20 19:38	II200903-4	.0501		.051	mg/L	102	70	130			
WG504882SIC	SIC	09/10/20 19:41	II200903-2	50.1001		46.56	mg/L	93	1	200			
WG504882LFB	LFB	09/10/20 19:48	II200903-6	.5015		.541	mg/L	108	85	115			
WG504882CCV1	CCV	09/10/20 20:20	II200828-2	1		.974	mg/L	97	90	110			
WG504882CCB1	CCB	09/10/20 20:23				U	mg/L		-0.03	0.03			
WG504882CCV2	CCV	09/10/20 20:59	II200828-2	1		.973	mg/L	97	90	110			
WG504882CCB2	CCB	09/10/20 21:03				U	mg/L		-0.03	0.03			
L61222-03AS	AS	09/10/20 21:06	II200903-6	.5015	U	.537	mg/L	107	85	115			
L61222-03ASD	ASD	09/10/20 21:09	II200903-6	.5015	U	.527	mg/L	105	85	115	2	20	
WG504882CCV3	CCV	09/10/20 21:22	II200828-2	1		.963	mg/L	96	90	110			
WG504882CCB3	CCB	09/10/20 21:25				U	mg/L		-0.03	0.03			

Rio Grande Silver, Inc.

ACZ Project ID: **L61232**

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, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG504856													
WG504856ICV	ICV	09/10/20 8:58	II200828-1	2		1.914	mg/L	96	95	105			
WG504856ICB	ICB	09/10/20 9:04				U	mg/L		-0.03	0.03			
WG504856PQV	PQV	09/10/20 9:07	II200903-4	.0501		.046	mg/L	92	70	130			
WG504856SIC	SIC	09/10/20 9:10	II200903-2	50.1001		46.77	mg/L	93	1	200			
WG504768LRB	LRB	09/10/20 9:17				U	mg/L		-0.022	0.022			
WG504768LFB	LFB	09/10/20 9:20	II200903-6	.5015		.489	mg/L	98	85	115			
L61232-03LFM	LFM	09/10/20 9:39	II200903-6	.5015	.14	.63	mg/L	98	70	130			
L61232-03LFMD	LFMD	09/10/20 9:42	II200903-6	.5015	.14	.633	mg/L	98	70	130	0	20	
WG504856CCV1	CCV	09/10/20 9:49	II200828-2	1		.938	mg/L	94	90	110			
WG504856CCB1	CCB	09/10/20 9:52				U	mg/L		-0.03	0.03			
WG504856CCV2	CCV	09/10/20 10:28	II200828-2	1		.925	mg/L	93	90	110			
WG504856CCB2	CCB	09/10/20 10:31				U	mg/L		-0.03	0.03			
WG504856CCV3	CCV	09/10/20 10:47	II200828-2	1		.93	mg/L	93	90	110			
WG504856CCB3	CCB	09/10/20 10:50				U	mg/L		-0.03	0.03			

Mercury, total

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG504859													
WG504859ICV	ICV	09/10/20 13:12	HG200810-2	.005		.00506	mg/L	101	95	105			
WG504859ICB	ICB	09/10/20 13:13				U	mg/L		-0.0002	0.0002			
WG504864													
WG504864CCV1	CCV	09/10/20 13:48	HG200810-2	.005		.00507	mg/L	101	90	110			
WG504864CCB1	CCB	09/10/20 13:49				U	mg/L		-0.0002	0.0002			
WG504864PQV	PQV	09/10/20 13:50	HG200908-2	.001001		.00097	mg/L	97	70	130			
WG504864LRB	LRB	09/10/20 13:51				U	mg/L		-0.00044	0.00044			
WG504864LFB	LFB	09/10/20 13:52	HG200908-3	.002002		.00196	mg/L	98	85	115			
L61217-02LFM	LFM	09/10/20 13:56	HG200908-3	.002002	U	.00196	mg/L	98	85	115			
L61217-02LFMD	LFMD	09/10/20 13:57	HG200908-3	.002002	U	.00195	mg/L	97	85	115	1	20	
WG504864CCV2	CCV	09/10/20 13:59	HG200810-2	.005		.00493	mg/L	99	90	110			
WG504864CCB2	CCB	09/10/20 14:00				U	mg/L		-0.0002	0.0002			
WG504864CCV3	CCV	09/10/20 14:11	HG200810-2	.005		.00497	mg/L	99	90	110			
WG504864CCB3	CCB	09/10/20 14:12				U	mg/L		-0.0002	0.0002			
L61244-03LFM	LFM	09/10/20 14:14	HG200908-3	.002002	U	.00203	mg/L	101	85	115			
L61244-03LFMD	LFMD	09/10/20 14:15	HG200908-3	.002002	U	.00199	mg/L	99	85	115	2	20	
WG504864CCV4	CCV	09/10/20 14:19	HG200810-2	.005		.0049	mg/L	98	90	110			
WG504864CCB4	CCB	09/10/20 14:20				U	mg/L		-0.0002	0.0002			

Rio Grande Silver, Inc.

ACZ Project ID: **L61232**

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.

Nitrate/Nitrite as N, dissolved

M353.2 - Automated Cadmium Reduction

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG504507													
WG504507ICV	ICV	09/02/20 21:13	WI200815-1	2.416		2.383	mg/L	99	90	110			
WG504507ICB	ICB	09/02/20 21:14				U	mg/L		-0.02	0.02			
WG504507LFB	LFB	09/02/20 21:19	WI200331-15	2		2.011	mg/L	101	90	110			
WG504507CCV1	CCV	09/02/20 21:28	WI200828-1	2		1.97	mg/L	99	90	110			
WG504507CCB1	CCB	09/02/20 21:31				U	mg/L		-0.02	0.02			
L61222-03AS	AS	09/02/20 21:41	WI200331-15	2	U	2.08	mg/L	104	90	110			
WG504507CCV2	CCV	09/02/20 21:44	WI200828-1	2		1.972	mg/L	99	90	110			
WG504507CCB2	CCB	09/02/20 21:47				U	mg/L		-0.02	0.02			
L61226-03DUP	DUP	09/02/20 21:57			5.12	5.097	mg/L				0	20	
WG504507CCV3	CCV	09/02/20 22:00	WI200828-1	2		1.979	mg/L	99	90	110			
WG504507CCB3	CCB	09/02/20 22:03				U	mg/L		-0.02	0.02			

Nitrite as N, dissolved

M353.2 - Automated Cadmium Reduction

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG504507													
WG504507ICV	ICV	09/02/20 21:13	WI200815-1	.609		.611	mg/L	100	90	110			
WG504507ICB	ICB	09/02/20 21:14				U	mg/L		-0.01	0.01			
WG504507LFB	LFB	09/02/20 21:19	WI200331-15	1		1.023	mg/L	102	90	110			
WG504507CCV1	CCV	09/02/20 21:28	WI200828-1	1		.999	mg/L	100	90	110			
WG504507CCB1	CCB	09/02/20 21:31				U	mg/L		-0.01	0.01			
L61222-03AS	AS	09/02/20 21:41	WI200331-15	1	U	1.035	mg/L	104	90	110			
WG504507CCV2	CCV	09/02/20 21:44	WI200828-1	1		1.002	mg/L	100	90	110			
WG504507CCB2	CCB	09/02/20 21:47				U	mg/L		-0.01	0.01			
L61226-03DUP	DUP	09/02/20 21:54			.17	.166	mg/L				2	20	
WG504507CCV3	CCV	09/02/20 22:00	WI200828-1	1		.995	mg/L	100	90	110			
WG504507CCB3	CCB	09/02/20 22:03				U	mg/L		-0.01	0.01			

Nitrogen, ammonia

M350.1 Auto Salicylate w/gas diffusion

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG505011													
WG505011ICV	ICV	09/11/20 13:59	WI200903-1	12.012		12.165	mg/L	101	90	110			
WG505011ICB	ICB	09/11/20 14:00				U	mg/L		-0.05	0.05			
WG505014													
WG505014CCV1	CCV	09/11/20 15:24	WI200814-1	10		10.3	mg/L	103	90	110			
WG505014CCB1	CCB	09/11/20 15:25				U	mg/L		-0.05	0.05			
WG505014LFB	LFB	09/11/20 15:27	WI191111-3	10		10.145	mg/L	101	90	110			
WG505014CCV2	CCV	09/11/20 15:41	WI200814-1	10		10.285	mg/L	103	90	110			
WG505014CCB2	CCB	09/11/20 15:43				U	mg/L		-0.05	0.05			
L61222-03DUP	DUP	09/11/20 15:50			U	U	mg/L				0	20	RA
L61226-02AS	AS	09/11/20 15:53	WI191111-3	10	1.76	12.016	mg/L	103	90	110			
WG505014CCV3	CCV	09/11/20 15:59	WI200814-1	10		10.306	mg/L	103	90	110			
WG505014CCB3	CCB	09/11/20 16:00				U	mg/L		-0.05	0.05			
WG505014CCV4	CCV	09/11/20 16:12	WI200814-1	10		10.527	mg/L	105	90	110			
WG505014CCB4	CCB	09/11/20 16:14				U	mg/L		-0.05	0.05			

Rio Grande Silver, Inc.

ACZ Project ID: **L61232**

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.

Nitrogen, total Kjeldahl

M351.2 - TKN by Block Digester

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG504848													
WG504848ICV	ICV	09/09/20 22:31	WI200810-3	4		4.18	mg/L	105	90	110			
WG504848ICB	ICB	09/09/20 22:33				U	mg/L		-0.2	0.2			
WG504698LRB1	LRB	09/09/20 22:34				U	mg/L		-0.2	0.2			
WG504698LFB1	LFB	09/09/20 22:35	WI200810-2	2.5		2.64	mg/L	106	90	110			
WG504848CCV1	CCV	09/09/20 22:45	WI200810-7	2.5		2.7	mg/L	108	90	110			
WG504848CCB1	CCB	09/09/20 22:46				U	mg/L		-0.2	0.2			
WG504848CCV2	CCV	09/09/20 22:58	WI200810-7	2.5		2.61	mg/L	104	90	110			
WG504848CCB2	CCB	09/09/20 23:00				U	mg/L		-0.2	0.2			
WG504698LRB2	LRB	09/09/20 23:07				U	mg/L		-0.2	0.2			
WG504698LFB2	LFB	09/09/20 23:09	WI200810-2	2.5		2.55	mg/L	102	90	110			
WG504848CCV3	CCV	09/09/20 23:12	WI200810-7	2.5		2.51	mg/L	100	90	110			
WG504848CCB3	CCB	09/09/20 23:13				U	mg/L		-0.2	0.2			
L61232-02LFM	LFM	09/09/20 23:22	WI200810-2	2.5	U	2.49	mg/L	100	90	110			
L61232-03DUP	DUP	09/09/20 23:24			U	U	mg/L				0	20	RA
WG504848CCV4	CCV	09/09/20 23:27	WI200810-7	2.5		2.58	mg/L	103	90	110			
WG504848CCB4	CCB	09/09/20 23:28				U	mg/L		-0.2	0.2			

pH (lab)

SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG504640													
WG504640LCSW1	LCSW	09/04/20 13:32	PCN60577	6		6	units	100	5.9	6.1			
WG504640LCSW4	LCSW	09/04/20 16:33	PCN60577	6		6.1	units	102	5.9	6.1			
WG504640LCSW7	LCSW	09/04/20 20:35	PCN60577	6		6.1	units	102	5.9	6.1			
WG504640LCSW10	LCSW	09/05/20 0:38	PCN60577	6		6.1	units	102	5.9	6.1			
L61244-02DUP	DUP	09/05/20 2:34			7.5	7.5	units				0	20	
WG504640LCSW13	LCSW	09/05/20 4:01	PCN60577	6		6.1	units	102	5.9	6.1			

Potassium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG504882													
WG504882ICV	ICV	09/10/20 19:29	II200828-1	20		19.53	mg/L	98	95	105			
WG504882ICB	ICB	09/10/20 19:35				U	mg/L		-0.6	0.6			
WG504882PQV	PQV	09/10/20 19:38	II200903-4	1		1	mg/L	100	70	130			
WG504882SIC	SIC	09/10/20 19:41	II200903-2	1		1.04	mg/L	104	80	120			
WG504882LFB	LFB	09/10/20 19:48	II200903-6	99.96637		102.3	mg/L	102	85	115			
WG504882CCV1	CCV	09/10/20 20:20	II200828-2	10		9.76	mg/L	98	90	110			
WG504882CCB1	CCB	09/10/20 20:23				U	mg/L		-0.6	0.6			
WG504882CCV2	CCV	09/10/20 20:59	II200828-2	10		9.76	mg/L	98	90	110			
WG504882CCB2	CCB	09/10/20 21:03				U	mg/L		-0.6	0.6			
L61222-03AS	AS	09/10/20 21:06	II200903-6	99.96637	1.2	104.2	mg/L	103	85	115			
L61222-03ASD	ASD	09/10/20 21:09	II200903-6	99.96637	1.2	101.8	mg/L	101	85	115	2	20	
WG504882CCV3	CCV	09/10/20 21:22	II200828-2	10		9.69	mg/L	97	90	110			
WG504882CCB3	CCB	09/10/20 21:25				U	mg/L		-0.6	0.6			

Rio Grande Silver, Inc.

ACZ Project ID: **L61232**

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.

Residue, Filterable (TDS) @180C

SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG504635													
WG504635PBW	PBW	09/04/20 12:10				U	mg/L		-20	20			
WG504635LCSW	LCSW	09/04/20 12:11	PCN61589	1000		994	mg/L	99	80	120			
L61232-03DUP	DUP	09/04/20 12:39			210	210	mg/L				0	10	

Silver, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG504989													
WG504989ICV	ICV	09/11/20 12:07	MS200812-2	.02004		.02038	mg/L	102	90	110			
WG504989ICB	ICB	09/11/20 12:08				U	mg/L		-0.00022	0.00022			
WG504989LFB	LFB	09/11/20 12:10	MS200803-2	.01002		.00998	mg/L	100	85	115			
WG504989CCV1	CCV	09/11/20 12:28	MS200908-4	.025075		.02398	mg/L	96	90	110			
WG504989CCB1	CCB	09/11/20 12:30				U	mg/L		-0.0003	0.0003			
L61295-01AS	AS	09/11/20 12:44	MS200803-2	.01002	U	.00991	mg/L	99	70	130			
L61295-01ASD	ASD	09/11/20 12:46	MS200803-2	.01002	U	.00952	mg/L	95	70	130	4	20	
WG504989CCV2	CCV	09/11/20 12:50	MS200908-4	.025075		.02473	mg/L	99	90	110			
WG504989CCB2	CCB	09/11/20 12:51				U	mg/L		-0.0003	0.0003			
WG504989CCV3	CCV	09/11/20 13:02	MS200908-4	.025075		.02481	mg/L	99	90	110			
WG504989CCB3	CCB	09/11/20 13:04				U	mg/L		-0.0003	0.0003			

Silver, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG504755													
WG504755ICV	ICV	09/08/20 18:37	MS200812-2	.02004		.02147	mg/L	107	90	110			
WG504755ICB	ICB	09/08/20 18:39				U	mg/L		-0.0003	0.0003			
WG504689LRB	LRB	09/08/20 18:41				U	mg/L		-0.00022	0.00022			
WG504689LFB	LFB	09/08/20 18:43	MS200803-2	.01002		.01021	mg/L	102	85	115			
L61228-03LFM	LFM	09/08/20 18:50	MS200803-2	.01002	U	.01001	mg/L	100	70	130			
L61228-03LFMD	LFMD	09/08/20 18:52	MS200803-2	.01002	U	.01014	mg/L	101	70	130	1	20	
WG504755CCV1	CCV	09/08/20 18:56	MS200908-4	.025075		.02501	mg/L	100	90	110			
WG504755CCB1	CCB	09/08/20 18:57				U	mg/L		-0.0003	0.0003			
WG504755CCV2	CCV	09/08/20 19:18	MS200908-4	.025075		.02505	mg/L	100	90	110			
WG504755CCB2	CCB	09/08/20 19:20				U	mg/L		-0.0003	0.0003			
L61249-02LFM	LFM	09/08/20 19:25	MS200803-2	.01002	U	.01044	mg/L	104	70	130			
L61249-02LFMD	LFMD	09/08/20 19:27	MS200803-2	.01002	U	.0106	mg/L	106	70	130	2	20	
WG504755CCV3	CCV	09/08/20 19:37	MS200908-4	.025075		.02506	mg/L	100	90	110			
WG504755CCB3	CCB	09/08/20 19:38				U	mg/L		-0.0003	0.0003			

Rio Grande Silver, Inc.

ACZ Project ID: **L61232**

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
WG504882													
WG504882ICV	ICV	09/10/20 19:29	II200828-1	100		97.62	mg/L	98	95	105			
WG504882ICB	ICB	09/10/20 19:35				U	mg/L		-0.6	0.6			
WG504882PQV	PQV	09/10/20 19:38	II200903-4	.999		1.02	mg/L	102	70	130			
WG504882SIC	SIC	09/10/20 19:41	II200903-2	.999		1.1	mg/L	110	80	120			
WG504882LFB	LFB	09/10/20 19:48	II200903-6	100.0125		101.3	mg/L	101	85	115			
WG504882CCV1	CCV	09/10/20 20:20	II200828-2	50		48.7	mg/L	97	90	110			
WG504882CCB1	CCB	09/10/20 20:23				U	mg/L		-0.6	0.6			
WG504882CCV2	CCV	09/10/20 20:59	II200828-2	50		48.82	mg/L	98	90	110			
WG504882CCB2	CCB	09/10/20 21:03				U	mg/L		-0.6	0.6			
L61222-03AS	AS	09/10/20 21:06	II200903-6	100.0125	5.8	107.7	mg/L	102	85	115			
L61222-03ASD	ASD	09/10/20 21:09	II200903-6	100.0125	5.8	105.6	mg/L	100	85	115	2	20	
WG504882CCV3	CCV	09/10/20 21:22	II200828-2	50		48.33	mg/L	97	90	110			
WG504882CCB3	CCB	09/10/20 21:25				U	mg/L		-0.6	0.6			

Sulfate

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG504321													
WG504321ICV	ICV	08/27/20 21:17	WI200827-5	50		50.6	mg/L	101	90	110			
WG504321ICB	ICB	08/27/20 21:35				U	mg/L		-0.4	0.4			
WG504801													
WG504801CCV1	CCV	09/09/20 19:50	WI200908-5	50		49.6	mg/L	99	90	110			
WG504801CCB1	CCB	09/09/20 20:08				U	mg/L		-0.4	0.4			
WG504801PQV	PQV	09/09/20 20:26	WI200908-4	2		1.62	mg/L	81	70	130			
WG504801CCV2	CCV	09/09/20 23:25	WI200908-5	50		49.5	mg/L	99	90	110			
WG504801CCB2	CCB	09/09/20 23:43				U	mg/L		-0.4	0.4			
L61201-01DUP	DUP	09/10/20 1:30			1380	1380	mg/L				0	20	
WG504801CCV3	CCV	09/10/20 3:00	WI200908-5	50		49.8	mg/L	100	90	110			
WG504801CCB3	CCB	09/10/20 3:18				U	mg/L		-0.4	0.4			
WG504801CCV4	CCV	09/10/20 5:23	WI200908-5	50		49.2	mg/L	98	90	110			
WG504801CCB4	CCB	09/10/20 5:41				U	mg/L		-0.4	0.4			
WG504801CCV5	CCV	09/10/20 17:24	WI200908-5	50		49.7	mg/L	99	90	110			
WG504801CCB5	CCB	09/10/20 17:42				U	mg/L		-0.4	0.4			
WG504801PQV1	PQV	09/10/20 18:00	WI200908-4	2		1.53	mg/L	77	70	130			
WG504801LFB	LFB	09/10/20 18:18	WI200701-1	30		29.4	mg/L	98	90	110			
WG504801CCV6	CCV	09/10/20 20:59	WI200908-5	50		49.3	mg/L	99	90	110			
WG504801CCB6	CCB	09/10/20 21:17				U	mg/L		-0.4	0.4			
L61201-02AS	AS	09/10/20 21:35	WI200701-1	1500	1820	3340	mg/L	101	90	110			
WG504801CCV7	CCV	09/10/20 22:29	WI200908-5	50		49.8	mg/L	100	90	110			
WG504801CCB7	CCB	09/10/20 22:47				U	mg/L		-0.4	0.4			

Rio Grande Silver, Inc.

ACZ Project ID: **L61232**

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.

Sulfide as S

SM4500S2-D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG504619													
WG504619ICV	ICV	09/04/20 8:32	WC200903-6	.35466		.375	mg/L	106	90	110			
WG504619ICB	ICB	09/04/20 8:35				U	mg/L		-0.05	0.05			
WG504619LFB1	LFB	09/04/20 8:39	WC200903-9	.2266667		.232	mg/L	102	80	120			
WG504619CCV1	CCV	09/04/20 9:15	WC200903-7	.17		.168	mg/L	99	90	110			
WG504619CCB1	CCB	09/04/20 9:19				U	mg/L		-0.05	0.05			
WG504619CCV2	CCV	09/04/20 9:58	WC200903-7	.17		.17	mg/L	100	90	110			
WG504619CCB2	CCB	09/04/20 10:02				U	mg/L		-0.05	0.05			
WG504619LFB2	LFB	09/04/20 10:24	WC200903-9	.2266667		.226	mg/L	100	80	120			
WG504619CCV3	CCV	09/04/20 10:42	WC200903-7	.17		.171	mg/L	101	90	110			
WG504619CCB3	CCB	09/04/20 10:45				U	mg/L		-0.05	0.05			
L61252-01AS	AS	09/04/20 11:11	WC200903-9	.2266667	U	.234	mg/L	103	75	125			
L61252-01ASD	ASD	09/04/20 11:14	WC200903-9	.2266667	U	.244	mg/L	108	75	125	4	20	
WG504619CCV4	CCV	09/04/20 11:25	WC200903-7	.17		.169	mg/L	99	90	110			
WG504619CCB4	CCB	09/04/20 11:29				U	mg/L		-0.05	0.05			
WG504619CCV5	CCV	09/04/20 11:58	WC200903-7	.17		.17	mg/L	100	90	110			
WG504619CCB5	CCB	09/04/20 12:01				U	mg/L		-0.05	0.05			

Zinc, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG504932													
WG504932ICV	ICV	09/10/20 17:06	MS200812-2	.05		.0494	mg/L	99	90	110			
WG504932ICB	ICB	09/10/20 17:09				U	mg/L		-0.0132	0.0132			
WG504932LFB	LFB	09/10/20 17:12	MS200803-2	.050075		.0495	mg/L	99	85	115			
WG504932CCV1	CCV	09/10/20 17:43	MS200908-4	.50075		.5069	mg/L	101	90	110			
WG504932CCB1	CCB	09/10/20 17:46				U	mg/L		-0.018	0.018			
L61217-09AS	AS	09/10/20 18:11	MS200803-2	.10015	U	.097	mg/L	97	70	130			
L61217-09ASD	ASD	09/10/20 18:14	MS200803-2	.10015	U	.098	mg/L	98	70	130	1	20	
WG504932CCV2	CCV	09/10/20 18:21	MS200908-4	.50075		.505	mg/L	101	90	110			
WG504932CCB2	CCB	09/10/20 18:24				U	mg/L		-0.018	0.018			
WG504932CCV3	CCV	09/10/20 18:43	MS200908-4	.50075		.5045	mg/L	101	90	110			
WG504932CCB3	CCB	09/10/20 18:46				U	mg/L		-0.018	0.018			

Rio Grande Silver, Inc.

ACZ Project ID: **L61232**

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.

Zinc, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG504755													
WG504755ICV	ICV	09/08/20 18:37	MS200812-2	.05		.0517	mg/L	103	90	110			
WG504755ICB	ICB	09/08/20 18:39				U	mg/L		-0.018	0.018			
WG504689LRB	LRB	09/08/20 18:41				U	mg/L		-0.0132	0.0132			
WG504689LFB	LFB	09/08/20 18:43	MS200803-2	.050075		.0517	mg/L	103	85	115			
L61228-03LFM	LFM	09/08/20 18:50	MS200803-2	.050075	.086	.1348	mg/L	97	70	130			
L61228-03LFMD	LFMD	09/08/20 18:52	MS200803-2	.050075	.086	.1343	mg/L	96	70	130	0	20	
WG504755CCV1	CCV	09/08/20 18:56	MS200908-4	.50075		.5098	mg/L	102	90	110			
WG504755CCB1	CCB	09/08/20 18:57				U	mg/L		-0.018	0.018			
WG504755CCV2	CCV	09/08/20 19:18	MS200908-4	.50075		.5195	mg/L	104	90	110			
WG504755CCB2	CCB	09/08/20 19:20				U	mg/L		-0.018	0.018			
L61249-02LFM	LFM	09/08/20 19:25	MS200803-2	.050075	U	.0521	mg/L	104	70	130			
L61249-02LFMD	LFMD	09/08/20 19:27	MS200803-2	.050075	U	.0533	mg/L	106	70	130	2	20	
WG504755CCV3	CCV	09/08/20 19:37	MS200908-4	.50075		.5159	mg/L	103	90	110			
WG504755CCB3	CCB	09/08/20 19:38				U	mg/L		-0.018	0.018			

Rio Grande Silver, Inc.

ACZ Project ID: L61232

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L61232-01	WG504801	Chloride	M300.0 - Ion Chromatography	DC	Sample required dilution. Non-target analyte exceeded calibration range.
			M300.0 - Ion Chromatography	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).
	WG505014	Nitrogen, ammonia	M350.1 Auto Salicylate w/gas diffusion	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).
	WG504848	Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	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).
	WG504635	Residue, Filterable (TDS) @180C	SM2540C	N1	See Case Narrative.
L61232-02	WG504801	Chloride	M300.0 - Ion Chromatography	DC	Sample required dilution. Non-target analyte exceeded calibration range.
			M300.0 - Ion Chromatography	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).
	WG505014	Nitrogen, ammonia	M350.1 Auto Salicylate w/gas diffusion	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).
	WG504848	Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	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).
	WG504635	Residue, Filterable (TDS) @180C	SM2540C	N1	See Case Narrative.
L61232-03	WG504801	Chloride	M300.0 - Ion Chromatography	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).
	WG505014	Nitrogen, ammonia	M350.1 Auto Salicylate w/gas diffusion	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).
	WG504848	Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	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).
	WG504635	Residue, Filterable (TDS) @180C	SM2540C	N1	See Case Narrative.

Rio Grande Silver, Inc.

Project ID: No BO# Used leftover bottles

Sample ID: HW-2

ACZ Sample ID: **L61232-01**

Date Sampled: 09/01/20 10:15

Date Received: 09/02/20

Sample Matrix: Groundwater

Oil & Grease, Total RecoverableAnalysis Method: **1664A/B - Gravimetric**

Extract Method:

Workgroup: WG504974

Analyst: eep

Extract Date:

Analysis Date: 09/11/20 11:20

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
Oil and Grease			U	1.01	*	mg/L	2	10.1

Rio Grande Silver, Inc.

Project ID: No BO# Used leftover bottles

Sample ID: GW-1

ACZ Sample ID: **L61232-02**

Date Sampled: 09/01/20 10:30

Date Received: 09/02/20

Sample Matrix: Groundwater

Oil & Grease, Total RecoverableAnalysis Method: **1664A/B - Gravimetric**

Extract Method:

Workgroup: WG504974

Analyst: eep

Extract Date:

Analysis Date: 09/11/20 11:44

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
Oil and Grease			U	1.01	*	mg/L	2	10.1

Rio Grande Silver, Inc.

Project ID: No BO# Used leftover bottles

Sample ID: DP-5

ACZ Sample ID: **L61232-03**

Date Sampled: 09/01/20 10:00

Date Received: 09/02/20

Sample Matrix: Groundwater

Oil & Grease, Total RecoverableAnalysis Method: **1664A/B - Gravimetric**

Extract Method:

Workgroup: WG504974

Analyst: eep

Extract Date:

Analysis Date: 09/11/20 12:07

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
Oil and Grease			U	1.01	*	mg/L	2	10.1

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>LCL</i>	Lower Control Limit
<i>MDL</i>	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #4) 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>	Amount of the true value or spike added recovered, 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>UCL</i>	Upper Control Limit
<i>Sample</i>	Value of the Sample of interest

QC Sample Types

<i>SURR</i>	Surrogate	<i>LFB</i>	Laboratory Fortified Blank
<i>INTS</i>	Internal Standard	<i>LFM</i>	Laboratory Fortified Matrix
<i>AS</i>	Analytical Spike (Post Digestion)	<i>LFMD</i>	Laboratory Fortified Matrix Duplicate
<i>ASD</i>	Analytical Spike (Post Digestion) Duplicate	<i>LRB</i>	Laboratory Reagent Blank
<i>DUP</i>	Sample Duplicate	<i>MS/MSD</i>	Matrix Spike/Matrix Spike Duplicate
<i>LCSS</i>	Laboratory Control Sample - Soil	<i>PBS</i>	Prep Blank - Soil
<i>LCSW</i>	Laboratory Control Sample - Water	<i>PBW</i>	Prep Blank - Water

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.

ACZ Qualifiers (Qual)

O	Analyte concentration is estimated due to result exceeding calibration range.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
J	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
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 600/4-90/020. Methods for the Determination of Organic Compounds in Drinking Water (I), July 1990.
- (3) EPA 600/R-92/129. Methods for the Determination of Organic Compounds in Drinking Water (II), July 1990.
- (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) Excluding Oil & Grease, solid & biological matrices for organic analyses are reported on a wet weight basis.
- (3) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
- (4) 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>

Rio Grande Silver, Inc.

ACZ Project ID: **L61232**

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.

Oil & Grease, Total Recoverable

1664A/B - Gravimetric

WG504974

LCSW		Sample ID: WG504974LCSW		PCN/SCN: OP200819-2			Analyzed: 09/11/20 16:06			
Compound	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
OIL AND GREASE	40		36.1	mg/L	90.0	78	114			

LCSWD		Sample ID: WG504974LCSWD		PCN/SCN: OP200819-2			Analyzed: 09/11/20 16:30			
Compound	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
OIL AND GREASE	40		38.5	mg/L	96.0	78	114	6	18	

PBW		Sample ID: WG504974PBW						Analyzed:		09/11/20 9:21	
Compound	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual	
OIL AND GREASE			U	mg/L							

ACZ Project ID: **L61232**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L61232-01	WG504974	Oil and Grease	1664A/B - Gravimetric	Q9	Insufficient sample received to meet method QC requirements.
L61232-02	WG504974	Oil and Grease	1664A/B - Gravimetric	Q9	Insufficient sample received to meet method QC requirements.
L61232-03	WG504974	Oil and Grease	1664A/B - Gravimetric	Q9	Insufficient sample received to meet method QC requirements.

Rio Grande Silver, Inc.

ACZ Project ID: **L61232**

No certification qualifiers associated with this analysis

Rio Grande Silver, Inc.
No BO# Used leftover bottles

ACZ Project ID: L61232
Date Received: 09/02/2020 13:47
Received By:
Date Printed: 9/3/2020

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?
-----	-----	-----	-----	-----
4027	0.6	<=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.
No BO# Used leftover bottles

ACZ Project ID: L61232
Date Received: 09/02/2020 13:47
Received By:
Date Printed: 9/3/2020

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).

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

L61232

Report to:

Name: Randy McClure		Address: 625 USFS Road 504. 1A
Company: Rio Grande Silver, Inc.		Creede, CO 81130
E-mail: rmcclure@hecla-mining.com		Telephone: 719-658-1080

Copy of Report to:

Name: Janet Shangraw	E-mail: jshangraw@comcast.net
Company: JNS, Inc.	Telephone: 303-972-8596

Invoice to:

Name: Randy McClure		Address: 625 USFS Road 504. 1A
Company: Rio Grande Silver, Inc.		Creede, CO 81130
E-mail: rmcclure@hecla-mining.com		Telephone: 719-658-1080

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 - GW - 2019				# of Containers															
PO#: No BO# Used leftover bottles																			
Reporting state for compliance testing:																			
Check box if samples include NRC licensed material?			☐																
SAMPLE IDENTIFICATION		DATE:TIME	Matrix																
HW-2		9/1/2020 10:15 AM	GW	7	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
GW-1		9/1/2020 10:30 AM	GW	7	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
DP-3		Did Not Sample	GW	7	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
DP-4		Did Not Sample	GW	7	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
DP-5		9/1/2020 10:00 AM	GW	7	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
					☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
					☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
					☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
					☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
					☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
					☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
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 may be more than one cooler for this COC. Please send an additional copy of the report to rmcclure@hecla-mining.com

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

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Randy McClure	9/1/20 11:30 AM		9/2/20 13:47

FRMAD050.03.14.13

White - Return with sample.

Yellow - Retain for your records.