

Figure 5

Surface water samples were collected on May 18, 2021.

Sample Locations:

- 1) WGL
- 2) 9360 Basin
- 3) 9700 Weir
- 4) WGU

Refer to Map G-3, Appendix 4 for sample locations.

Windy Gulch is an ephemeral stream and typically only flows in the spring (April/May) in years when there is enough snowpack to create runoff. Windy gulch had sufficient flow for surface water sampling this spring due to a normal snowpack.

June 15, 2021

Report to:

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

cc: Janet Shangraw

Bill to:

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

Project ID: BO44726
ACZ Project ID: L65941

Randy McClure:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on May 20, 2021. This project has been assigned to ACZ's project number, L65941. 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 L65941. 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 July 15, 2021. 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.



Scott Habermehl has reviewed
and approved this report.



Rio Grande Silver, Inc.

June 15, 2021

Project ID: BO44726

ACZ Project ID: L65941

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 6 miscellaneous samples from Rio Grande Silver, Inc. on May 20, 2021. 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 L65941. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Holding Times

Any analyses not performed within EPA recommended holding times have been qualified with an "H" flag.

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 extended qualifier reports may contain footnotes qualifying specific elements due to QC failures. In addition the following has been noted with this specific project:

1. The dissolved and total recoverable Cadmiums on L65941-01, -03, and -05 were re-analyzed for verification (dis > TR).
2. (R1) Oil and Grease.

Matrix spike and LCSWD recovery was below acceptance limits with a high Control Sample(s) RPD. At a minimum, one LCSW recovery met acceptance criteria.

Rio Grande Silver, Inc.

Project ID: BO44726

Sample ID: WG-L

ACZ Sample ID: **L65941-01**

Date Sampled: 05/18/21 10:30

Date Received: 05/20/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Nitrogen, total Kjeldahl	M351.2 - Block Digestor								06/08/21 13:53	md
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								06/07/21 12:48	emh
Total Recoverable Digestion	M200.2 ICP-MS				*				06/09/21 14:06	enb
Total Recoverable Digestion	M200.2 ICP								05/25/21 15:17	jlw

Rio Grande Silver, Inc.

Project ID: BO44726

Sample ID: WG-L

ACZ Sample ID: **L65941-01**

Date Sampled: 05/18/21 10:30

Date Received: 05/20/21

Sample Matrix: Surface Water

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	<0.05	U	*	mg/L	0.05	0.25	05/27/21 13:32	jlw
Aluminum, total recoverable	M200.7 ICP	1	0.197	B	*	mg/L	0.05	0.25	05/26/21 12:24	jlw
Arsenic, dissolved	M200.8 ICP-MS	1	0.0157			mg/L	0.0002	0.001	05/25/21 12:43	mfm
Arsenic, total recoverable	M200.8 ICP-MS	1	0.0154			mg/L	0.0002	0.001	05/26/21 11:10	mfm
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	05/26/21 15:49	kja
Boron, total recoverable	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	05/26/21 12:24	jlw
Cadmium, dissolved	M200.8 ICP-MS	1	0.0116			mg/L	0.00005	0.00025	06/10/21 20:35	bsu
Cadmium, total recoverable	M200.8 ICP-MS	5	0.00708			mg/L	0.00025	0.00125	06/10/21 15:32	mfm
Calcium, dissolved	M200.7 ICP	1	29.8			mg/L	0.1	0.5	05/26/21 15:49	kja
Chromium, total recoverable	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	05/26/21 11:10	mfm
Cobalt, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	05/26/21 15:49	kja
Cobalt, total recoverable	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	05/26/21 12:24	jlw
Copper, dissolved	M200.8 ICP-MS	1	0.00353			mg/L	0.0008	0.002	05/25/21 12:43	mfm
Copper, total recoverable	M200.8 ICP-MS	1	0.00369			mg/L	0.0008	0.002	05/26/21 11:10	mfm
Iron, dissolved	M200.7 ICP	1	<0.06	U	*	mg/L	0.06	0.15	05/26/21 15:49	kja
Iron, total recoverable	M200.7 ICP	1	0.096	B		mg/L	0.06	0.15	05/26/21 12:24	jlw
Lead, dissolved	M200.8 ICP-MS	1	0.00036	B		mg/L	0.0001	0.0005	05/25/21 12:43	mfm
Lead, total recoverable	M200.8 ICP-MS	1	0.00068			mg/L	0.0001	0.0005	05/26/21 11:10	mfm
Magnesium, dissolved	M200.7 ICP	1	3.09			mg/L	0.2	1	05/26/21 15:49	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	05/26/21 15:49	kja
Manganese, total recoverable	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	05/26/21 12:24	jlw
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	05/26/21 15:49	kja
Nickel, total recoverable	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	05/26/21 12:24	jlw
Potassium, dissolved	M200.7 ICP	1	2.39			mg/L	0.2	1	05/26/21 15:49	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.00026			mg/L	0.0001	0.00025	05/25/21 12:43	mfm
Selenium, total recoverable	M200.8 ICP-MS	1	0.00021	B		mg/L	0.0001	0.00025	05/26/21 11:10	mfm
Silica, dissolved	M200.7 ICP	1	28.7		*	mg/L	0.2	1	05/26/21 15:49	kja
Silica, total recoverable	M200.7 ICP	1	28.5		*	mg/L	0.2	1	05/26/21 12:24	jlw
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	05/25/21 12:43	mfm
Silver, total recoverable	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	05/26/21 11:10	mfm
Sodium, dissolved	M200.7 ICP	1	4.63			mg/L	0.2	1	05/26/21 15:49	kja
Uranium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	05/25/21 12:43	mfm
Uranium, total recoverable	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	05/26/21 11:10	mfm
Zinc, dissolved	M200.8 ICP-MS	1	1.72		*	mg/L	0.006	0.015	05/25/21 12:43	mfm
Zinc, total recoverable	M200.8 ICP-MS	1	1.64		*	mg/L	0.006	0.015	05/26/21 11:10	mfm

Rio Grande Silver, Inc.

Project ID: BO44726

Sample ID: WG-L

ACZ Sample ID: **L65941-01**

Date Sampled: 05/18/21 10:30

Date Received: 05/20/21

Sample Matrix: Surface Water

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	10.6	B		mg/L	2	20	05/22/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	05/22/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	05/22/21 0:00	eep
Total Alkalinity		1	10.6	B		mg/L	2	20	05/22/21 0:00	eep
Carbon, dissolved organic (DOC)	SM5310B	1	4.3	B	*	mg/L	1	5	05/22/21 6:14	ttg
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-4.5			%			06/14/21 0:00	calc
Sum of Anions			2.3			meq/L			06/14/21 0:00	calc
Sum of Cations			2.1			meq/L			06/14/21 0:00	calc
Chemical Oxygen Demand	M410.4	1	<10	U	*	mg/L	10	20	05/26/21 12:45	scd
Chloride	M300.0 - Ion Chromatography	1	1.16	B	*	mg/L	0.4	2	05/26/21 18:41	krh
Fluoride	SM4500F-C	1	0.21	B		mg/L	0.15	0.35	05/26/21 23:04	emk
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		87			mg/L	0.2	5	06/14/21 0:00	calc
Nitrate as N, dissolved	Calculation: NO ₃ NO ₂ minus NO ₂		0.67	H		mg/L	0.02	0.1	06/14/21 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.665	H	*	mg/L	0.02	0.1	05/22/21 1:49	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	UH	*	mg/L	0.01	0.05	05/22/21 1:49	pjb
Nitrogen, ammonia	M350.1 Auto Salicylate w/gas diffusion	1	<0.05	U	*	mg/L	0.05	0.2	06/10/21 11:14	syw
Nitrogen, organic	M351.2 & M350.1 - TKN minus NH ₃		0.3	B		mg/L	0.2	0.5	06/14/21 0:00	calc
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	1	0.29	B	*	mg/L	0.2	0.5	06/08/21 23:34	pjb
pH (lab)	SM4500H+ B									
pH		1	7.3	H		units	0.1	0.1	05/22/21 0:00	eep
pH measured at		1	20.8			C	0.1	0.1	05/22/21 0:00	eep
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	0.036	B	*	mg/L	0.01	0.05	06/09/21 1:27	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	188		*	mg/L	20	40	05/24/21 16:23	jck
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	05/21/21 19:07	jck
Sulfate	M300.0 - Ion Chromatography	1	94.6			mg/L	0.4	2	05/26/21 18:41	krh
Sulfide as S	SM4500S2-D	1	<0.02	U		mg/L	0.02	0.1	05/24/21 13:19	jck

Rio Grande Silver, Inc.

Project ID: BO44726

Sample ID: WG-9360-B

ACZ Sample ID: **L65941-02**

Date Sampled: 05/18/21 10:50

Date Received: 05/20/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Nitrogen, total Kjeldahl	M351.2 - Block Digestor								06/08/21 14:13	md
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								06/07/21 12:56	emh
Total Recoverable Digestion	M200.2 ICP								05/25/21 15:31	jlw
Total Recoverable Digestion	M200.2 ICP-MS								05/25/21 8:15	mfm

Rio Grande Silver, Inc.

Project ID: BO44726

Sample ID: WG-9360-B

ACZ Sample ID: **L65941-02**

Date Sampled: 05/18/21 10:50

Date Received: 05/20/21

Sample Matrix: Surface Water

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	0.495		*	mg/L	0.05	0.25	05/27/21 13:35	jlw
Aluminum, total recoverable	M200.7 ICP	1	1.75		*	mg/L	0.05	0.25	05/26/21 12:28	jlw
Arsenic, dissolved	M200.8 ICP-MS	1	0.0247			mg/L	0.0002	0.001	05/25/21 12:45	mfm
Arsenic, total recoverable	M200.8 ICP-MS	1	0.0343			mg/L	0.0002	0.001	05/26/21 11:15	mfm
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	05/26/21 15:52	kja
Boron, total recoverable	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	05/26/21 12:28	jlw
Cadmium, dissolved	M200.8 ICP-MS	1	0.0146			mg/L	0.00005	0.00025	05/25/21 12:45	mfm
Cadmium, total recoverable	M200.8 ICP-MS	1	0.0125			mg/L	0.00005	0.00025	05/26/21 11:15	mfm
Calcium, dissolved	M200.7 ICP	1	20.2			mg/L	0.1	0.5	05/26/21 15:52	kja
Chromium, total recoverable	M200.8 ICP-MS	1	0.00068	B		mg/L	0.0005	0.002	05/26/21 11:15	mfm
Cobalt, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	05/26/21 15:52	kja
Cobalt, total recoverable	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	05/26/21 12:28	jlw
Copper, dissolved	M200.8 ICP-MS	1	0.00860			mg/L	0.0008	0.002	05/25/21 12:45	mfm
Copper, total recoverable	M200.8 ICP-MS	1	0.0105			mg/L	0.0008	0.002	05/26/21 11:15	mfm
Iron, dissolved	M200.7 ICP	1	0.186		*	mg/L	0.06	0.15	05/26/21 15:52	kja
Iron, total recoverable	M200.7 ICP	1	0.981			mg/L	0.06	0.15	05/26/21 12:28	jlw
Lead, dissolved	M200.8 ICP-MS	1	0.00039	B		mg/L	0.0001	0.0005	05/25/21 12:45	mfm
Lead, total recoverable	M200.8 ICP-MS	1	0.00138			mg/L	0.0001	0.0005	05/26/21 11:15	mfm
Magnesium, dissolved	M200.7 ICP	1	2.45			mg/L	0.2	1	05/26/21 15:52	kja
Manganese, dissolved	M200.7 ICP	1	0.192			mg/L	0.01	0.05	05/26/21 15:52	kja
Manganese, total recoverable	M200.7 ICP	1	0.201			mg/L	0.01	0.05	05/26/21 12:28	jlw
Mercury, total	M1631E, Atomic Fluorescence	1	8.51		*	ng/L	0.3	1	05/28/21 8:46	enb
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	05/26/21 15:52	kja
Nickel, total recoverable	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	05/26/21 12:28	jlw
Potassium, dissolved	M200.7 ICP	1	2.04			mg/L	0.2	1	05/26/21 15:52	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.00016	B		mg/L	0.0001	0.00025	05/25/21 12:45	mfm
Selenium, total recoverable	M200.8 ICP-MS	1	0.00018	B		mg/L	0.0001	0.00025	05/26/21 11:15	mfm
Silica, dissolved	M200.7 ICP	1	28.9		*	mg/L	0.2	1	05/26/21 15:52	kja
Silica, total recoverable	M200.7 ICP	1	33.3		*	mg/L	0.2	1	05/26/21 12:28	jlw
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	05/25/21 12:45	mfm
Silver, total recoverable	M200.8 ICP-MS	1	0.00011	B		mg/L	0.0001	0.0005	05/26/21 11:15	mfm
Sodium, dissolved	M200.7 ICP	1	3.28			mg/L	0.2	1	05/26/21 15:52	kja
Uranium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	05/25/21 12:45	mfm
Uranium, total recoverable	M200.8 ICP-MS	1	0.00011	B		mg/L	0.0001	0.0005	05/26/21 11:15	mfm
Zinc, dissolved	M200.8 ICP-MS	1	1.66		*	mg/L	0.006	0.015	05/25/21 12:45	mfm

Rio Grande Silver, Inc.

Project ID: BO44726

Sample ID: WG-9360-B

ACZ Sample ID: **L65941-02**

Date Sampled: 05/18/21 10:50

Date Received: 05/20/21

Sample Matrix: Surface Water

Zinc, total recoverable	M200.8 ICP-MS	1	1.64	*	mg/L	0.006	0.015	05/26/21 11:15	mfm
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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	9.3	B		mg/L	2	20	05/22/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	05/22/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	05/22/21 0:00	eep
Total Alkalinity		1	9.3	B		mg/L	2	20	05/22/21 0:00	eep
Carbon, dissolved organic (DOC)	SM5310B	1	4.8	B	*	mg/L	1	5	05/22/21 6:51	ttg
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-3.2			%			06/14/21 0:00	calc
Sum of Anions			1.6			meq/L			06/14/21 0:00	calc
Sum of Cations			1.5			meq/L			06/14/21 0:00	calc
Chemical Oxygen Demand	M410.4	1	<10	U	*	mg/L	10	20	05/26/21 13:00	scd
Chloride	M300.0 - Ion Chromatography	1	0.97	B	*	mg/L	0.4	2	05/26/21 18:59	krh
Fluoride	SM4500F-C	1	0.20	B		mg/L	0.15	0.35	05/26/21 23:23	emk
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		61			mg/L	0.2	5	06/14/21 0:00	calc
Nitrate as N, dissolved	Calculation: NO ₃ NO ₂ minus NO ₂		0.38	H		mg/L	0.02	0.1	06/14/21 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.376	H	*	mg/L	0.02	0.1	05/22/21 1:50	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	UH	*	mg/L	0.01	0.05	05/22/21 1:50	pjb
Nitrogen, ammonia	M350.1 Auto Salicylate w/gas diffusion	1	<0.05	U	*	mg/L	0.05	0.2	06/10/21 11:16	syw
Nitrogen, organic	M351.2 & M350.1 - TKN minus NH ₃		0.3	B		mg/L	0.2	0.5	06/14/21 0:00	calc
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	1	0.32	B	*	mg/L	0.2	0.5	06/08/21 23:35	pjb
pH (lab)	SM4500H+ B									
pH		1	7.2	H		units	0.1	0.1	05/22/21 0:00	eep
pH measured at		1	20.7			C	0.1	0.1	05/22/21 0:00	eep
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	0.082		*	mg/L	0.01	0.05	06/09/21 1:28	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	160			mg/L	20	40	05/24/21 16:29	jck
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	05/21/21 19:09	jck
Sulfate	M300.0 - Ion Chromatography	1	63.0			mg/L	0.4	2	05/26/21 18:59	krh
Sulfide as S	SM4500S2-D	1	<0.02	U		mg/L	0.02	0.1	05/24/21 13:24	jck

Rio Grande Silver, Inc.

Project ID: BO44726

Sample ID: WG-9700-W

ACZ Sample ID: **L65941-03**

Date Sampled: 05/18/21 11:35

Date Received: 05/20/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Nitrogen, total Kjeldahl	M351.2 - Block Digestor								06/08/21 14:32	md
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								06/07/21 13:04	emh
Total Recoverable Digestion	M200.2 ICP-MS				*				06/09/21 14:20	enb
Total Recoverable Digestion	M200.2 ICP								05/25/21 15:45	jlw

Rio Grande Silver, Inc.

Project ID: BO44726

Sample ID: WG-9700-W

ACZ Sample ID: **L65941-03**

Date Sampled: 05/18/21 11:35

Date Received: 05/20/21

Sample Matrix: Surface Water

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	0.471		*	mg/L	0.05	0.25	05/27/21 13:39	jlw
Aluminum, total recoverable	M200.7 ICP	1	2.93		*	mg/L	0.05	0.25	05/26/21 12:37	jlw
Arsenic, dissolved	M200.8 ICP-MS	1	0.0386			mg/L	0.0002	0.001	05/25/21 12:54	mfm
Arsenic, total recoverable	M200.8 ICP-MS	1	0.0523			mg/L	0.0002	0.001	05/26/21 11:21	mfm
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	05/26/21 15:55	kja
Boron, total recoverable	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	05/26/21 12:37	jlw
Cadmium, dissolved	M200.8 ICP-MS	1	0.00266			mg/L	0.00005	0.00025	06/10/21 20:37	bsu
Cadmium, total recoverable	M200.8 ICP-MS	2	0.00167			mg/L	0.0001	0.0005	06/10/21 15:33	mfm
Calcium, dissolved	M200.7 ICP	1	8.04			mg/L	0.1	0.5	05/26/21 15:55	kja
Chromium, total recoverable	M200.8 ICP-MS	1	0.00098	B		mg/L	0.0005	0.002	05/26/21 11:21	mfm
Cobalt, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	05/26/21 15:55	kja
Cobalt, total recoverable	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	05/26/21 12:37	jlw
Copper, dissolved	M200.8 ICP-MS	1	0.0153			mg/L	0.0008	0.002	05/25/21 12:54	mfm
Copper, total recoverable	M200.8 ICP-MS	1	0.0190			mg/L	0.0008	0.002	05/26/21 11:21	mfm
Iron, dissolved	M200.7 ICP	1	0.439		*	mg/L	0.06	0.15	05/26/21 15:55	kja
Iron, total recoverable	M200.7 ICP	1	1.73			mg/L	0.06	0.15	05/26/21 12:37	jlw
Lead, dissolved	M200.8 ICP-MS	1	0.00057			mg/L	0.0001	0.0005	05/25/21 12:54	mfm
Lead, total recoverable	M200.8 ICP-MS	1	0.00175			mg/L	0.0001	0.0005	05/26/21 11:21	mfm
Magnesium, dissolved	M200.7 ICP	1	1.16			mg/L	0.2	1	05/26/21 15:55	kja
Manganese, dissolved	M200.7 ICP	1	0.076			mg/L	0.01	0.05	05/26/21 15:55	kja
Manganese, total recoverable	M200.7 ICP	1	0.092			mg/L	0.01	0.05	05/26/21 12:37	jlw
Mercury, total	M1631E, Atomic Fluorescence	1	12.9		*	ng/L	0.3	1	05/28/21 8:51	enb
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	05/26/21 15:55	kja
Nickel, total recoverable	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	05/26/21 12:37	jlw
Potassium, dissolved	M200.7 ICP	1	1.47			mg/L	0.2	1	05/26/21 15:55	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.00015	B		mg/L	0.0001	0.00025	05/25/21 12:54	mfm
Selenium, total recoverable	M200.8 ICP-MS	1	0.00018	B		mg/L	0.0001	0.00025	05/26/21 11:21	mfm
Silica, dissolved	M200.7 ICP	1	26.9		*	mg/L	0.2	1	05/26/21 15:55	kja
Silica, total recoverable	M200.7 ICP	1	34.2		*	mg/L	0.2	1	05/26/21 12:37	jlw
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	05/25/21 12:54	mfm
Silver, total recoverable	M200.8 ICP-MS	1	0.00011	B		mg/L	0.0001	0.0005	05/26/21 11:21	mfm
Sodium, dissolved	M200.7 ICP	1	2.61			mg/L	0.2	1	05/26/21 15:55	kja
Uranium, dissolved	M200.8 ICP-MS	1	0.00019	B		mg/L	0.0001	0.0005	05/25/21 12:54	mfm
Uranium, total recoverable	M200.8 ICP-MS	1	0.00025	B		mg/L	0.0001	0.0005	05/26/21 11:21	mfm
Zinc, dissolved	M200.8 ICP-MS	1	0.187		*	mg/L	0.006	0.015	05/25/21 12:54	mfm

Rio Grande Silver, Inc.

Project ID: BO44726

Sample ID: WG-9700-W

ACZ Sample ID: **L65941-03**

Date Sampled: 05/18/21 11:35

Date Received: 05/20/21

Sample Matrix: Surface Water

Zinc, total recoverable	M200.8 ICP-MS	1	0.193	*		mg/L	0.006	0.015	05/26/21 11:21	mfm
Wet Chemistry										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	14.0	B		mg/L	2	20	05/22/21 0:00	eep
Carbonate as CaCO3		1	<2	U		mg/L	2	20	05/22/21 0:00	eep
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	05/22/21 0:00	eep
Total Alkalinity		1	14.0	B		mg/L	2	20	05/22/21 0:00	eep
Carbon, dissolved organic (DOC)	SM5310B	1	5.4		*	mg/L	1	5	05/22/21 7:02	ttg
Cation-Anion Balance	Calculation									
Cation-Anion Balance			7.5			%			06/14/21 0:00	calc
Sum of Anions			0.635			meq/L			06/14/21 0:00	calc
Sum of Cations			0.738			meq/L			06/14/21 0:00	calc
Chemical Oxygen Demand	M410.4	1	<10	U	*	mg/L	10	20	05/26/21 13:15	scd
Chloride	M300.0 - Ion Chromatography	1	0.83	B	*	mg/L	0.4	2	05/26/21 19:53	krh
Fluoride	SM4500F-C	1	<0.15	U		mg/L	0.15	0.35	05/26/21 23:31	emk
Hardness as CaCO3 (dissolved)	SM2340B - Calculation		25			mg/L	0.2	5	06/14/21 0:00	calc
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2		0.18	H		mg/L	0.02	0.1	06/14/21 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.178	H	*	mg/L	0.02	0.1	05/22/21 1:55	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	UH	*	mg/L	0.01	0.05	05/22/21 1:55	pjb
Nitrogen, ammonia	M350.1 Auto Salicylate w/gas diffusion	1	<0.05	U	*	mg/L	0.05	0.2	06/10/21 11:17	syw
Nitrogen, organic	M351.2 & M350.1 - TKN minus NH3		0.4	B		mg/L	0.2	0.5	06/14/21 0:00	calc
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	1	0.37	B	*	mg/L	0.2	0.5	06/08/21 23:36	pjb
pH (lab)	SM4500H+ B									
pH		1	7.5	H		units	0.1	0.1	05/22/21 0:00	eep
pH measured at		1	20.5			C	0.1	0.1	05/22/21 0:00	eep
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	0.117		*	mg/L	0.01	0.05	06/09/21 1:29	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	108			mg/L	20	40	05/24/21 16:31	jck
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	05/21/21 19:11	jck
Sulfate	M300.0 - Ion Chromatography	1	15.2			mg/L	0.4	2	05/26/21 19:53	krh
Sulfide as S	SM4500S2-D	1	<0.02	U		mg/L	0.02	0.1	05/24/21 13:29	jck

Rio Grande Silver, Inc.

Project ID: BO44726

Sample ID: WG-U

ACZ Sample ID: **L65941-04**

Date Sampled: 05/18/21 12:05

Date Received: 05/20/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Nitrogen, total Kjeldahl	M351.2 - Block Digestor								06/08/21 14:52	md
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								06/07/21 13:21	emh
Total Recoverable Digestion	M200.2 ICP								05/25/21 15:59	jlw
Total Recoverable Digestion	M200.2 ICP-MS				*				06/09/21 14:34	enb

Rio Grande Silver, Inc.

Project ID: BO44726

Sample ID: WG-U

ACZ Sample ID: **L65941-04**

Date Sampled: 05/18/21 12:05

Date Received: 05/20/21

Sample Matrix: Surface Water

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	0.362		*	mg/L	0.05	0.25	05/27/21 13:48	jlw
Aluminum, total recoverable	M200.7 ICP	1	3.80		*	mg/L	0.05	0.25	05/26/21 12:41	jlw
Arsenic, dissolved	M200.8 ICP-MS	1	0.00223			mg/L	0.0002	0.001	05/25/21 12:56	mfm
Arsenic, total recoverable	M200.8 ICP-MS	1	0.00255			mg/L	0.0002	0.001	05/26/21 11:22	mfm
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	05/26/21 16:04	kja
Boron, total recoverable	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	05/26/21 12:41	jlw
Cadmium, dissolved	M200.8 ICP-MS	1	0.000982			mg/L	0.00005	0.00025	06/10/21 20:39	bsu
Cadmium, total recoverable	M200.8 ICP-MS	25	<0.00125	U		mg/L	0.00125	0.00625	06/10/21 15:35	mfm
Calcium, dissolved	M200.7 ICP	1	6.69			mg/L	0.1	0.5	05/26/21 16:04	kja
Chromium, total recoverable	M200.8 ICP-MS	1	0.00116	B		mg/L	0.0005	0.002	05/26/21 11:22	mfm
Cobalt, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	05/26/21 16:04	kja
Cobalt, total recoverable	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	05/26/21 12:41	jlw
Copper, dissolved	M200.8 ICP-MS	1	0.00093	B		mg/L	0.0008	0.002	05/25/21 12:56	mfm
Copper, total recoverable	M200.8 ICP-MS	1	0.00172	B		mg/L	0.0008	0.002	05/26/21 11:22	mfm
Iron, dissolved	M200.7 ICP	1	0.191		*	mg/L	0.06	0.15	05/26/21 16:04	kja
Iron, total recoverable	M200.7 ICP	1	1.72			mg/L	0.06	0.15	05/26/21 12:41	jlw
Lead, dissolved	M200.8 ICP-MS	1	0.00030	B		mg/L	0.0001	0.0005	05/25/21 12:56	mfm
Lead, total recoverable	M200.8 ICP-MS	1	0.00070			mg/L	0.0001	0.0005	05/26/21 11:22	mfm
Magnesium, dissolved	M200.7 ICP	1	0.98	B		mg/L	0.2	1	05/26/21 16:04	kja
Manganese, dissolved	M200.7 ICP	1	0.013	B		mg/L	0.01	0.05	05/26/21 16:04	kja
Manganese, total recoverable	M200.7 ICP	1	0.030	B		mg/L	0.01	0.05	05/26/21 12:41	jlw
Mercury, total	M1631E, Atomic Fluorescence	1	6.48		*	ng/L	0.3	1	05/28/21 8:56	enb
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	05/26/21 16:04	kja
Nickel, total recoverable	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	05/26/21 12:41	jlw
Potassium, dissolved	M200.7 ICP	1	1.47			mg/L	0.2	1	05/26/21 16:04	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.00011	B		mg/L	0.0001	0.00025	05/25/21 12:56	mfm
Selenium, total recoverable	M200.8 ICP-MS	1	0.00015	B		mg/L	0.0001	0.00025	05/26/21 11:22	mfm
Silica, dissolved	M200.7 ICP	1	29.0		*	mg/L	0.2	1	05/26/21 16:04	kja
Silica, total recoverable	M200.7 ICP	1	38.0		*	mg/L	0.2	1	05/26/21 12:41	jlw
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	05/25/21 12:56	mfm
Silver, total recoverable	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	05/26/21 11:22	mfm
Sodium, dissolved	M200.7 ICP	1	2.78			mg/L	0.2	1	05/26/21 16:04	kja
Uranium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	05/25/21 12:56	mfm
Uranium, total recoverable	M200.8 ICP-MS	1	0.00012	B		mg/L	0.0001	0.0005	05/26/21 11:22	mfm
Zinc, dissolved	M200.8 ICP-MS	1	<0.006	U	*	mg/L	0.006	0.015	05/25/21 12:56	mfm

Rio Grande Silver, Inc.

Project ID: BO44726

Sample ID: WG-U

ACZ Sample ID: **L65941-04**

Date Sampled: 05/18/21 12:05

Date Received: 05/20/21

Sample Matrix: Surface Water

Zinc, total recoverable	M200.8 ICP-MS	1	<0.006	U	*	mg/L	0.006	0.015	05/26/21 11:22	mfm
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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	22.5			mg/L	2	20	05/22/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	05/22/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	05/22/21 0:00	eep
Total Alkalinity		1	22.5			mg/L	2	20	05/22/21 0:00	eep
Carbon, dissolved organic (DOC)	SM5310B	1	7.7		*	mg/L	1	5	05/22/21 7:15	ttg
Cation-Anion Balance	Calculation									
Cation-Anion Balance			8.8			%			06/14/21 0:00	calc
Sum of Anions			0.529			meq/L			06/14/21 0:00	calc
Sum of Cations			0.631			meq/L			06/14/21 0:00	calc
Chemical Oxygen Demand	M410.4	1	16	B	*	mg/L	10	20	05/26/21 14:00	scd
Chloride	M300.0 - Ion Chromatography	1	0.78	B	*	mg/L	0.4	2	05/26/21 20:10	krh
Fluoride	SM4500F-C	1	<0.15	U		mg/L	0.15	0.35	05/26/21 23:34	emk
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		21			mg/L	0.2	5	06/14/21 0:00	calc
Nitrate as N, dissolved	Calculation: NO ₃ NO ₂ minus NO ₂		0.06	BH		mg/L	0.02	0.1	06/14/21 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.063	BH	*	mg/L	0.02	0.1	05/22/21 1:57	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	UH	*	mg/L	0.01	0.05	05/22/21 1:57	pjb
Nitrogen, ammonia	M350.1 Auto Salicylate w/gas diffusion	1	0.060	B	*	mg/L	0.05	0.2	06/10/21 14:32	syw
Nitrogen, organic	M351.2 & M350.1 - TKN minus NH ₃		0.5			mg/L	0.2	0.5	06/14/21 0:00	calc
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	1	0.51		*	mg/L	0.2	0.5	06/08/21 23:37	pjb
pH (lab)	SM4500H+ B									
pH		1	7.7	H		units	0.1	0.1	05/22/21 0:00	eep
pH measured at		1	20.3			C	0.1	0.1	05/22/21 0:00	eep
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	0.084		*	mg/L	0.01	0.05	06/09/21 1:31	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	110			mg/L	20	40	05/24/21 16:34	jck
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	05/21/21 19:14	jck
Sulfate	M300.0 - Ion Chromatography	1	2.50			mg/L	0.4	2	05/26/21 20:10	krh
Sulfide as S	SM4500S2-D	1.5	<0.03	U	*	mg/L	0.03	0.15	05/24/21 13:35	jck

Rio Grande Silver, Inc.

Project ID: BO44726

Sample ID: WG-D

ACZ Sample ID: **L65941-05**

Date Sampled: 05/18/21 10:35

Date Received: 05/20/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Nitrogen, total Kjeldahl	M351.2 - Block Digestor								06/08/21 15:12	md
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								06/07/21 13:37	emh
Total Recoverable Digestion	M200.2 ICP-MS				*				06/09/21 14:49	enb
Total Recoverable Digestion	M200.2 ICP								05/25/21 16:41	jlw

Rio Grande Silver, Inc.

Project ID: BO44726

Sample ID: WG-D

ACZ Sample ID: **L65941-05**

Date Sampled: 05/18/21 10:35

Date Received: 05/20/21

Sample Matrix: Surface Water

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	0.085	B	*	mg/L	0.05	0.25	05/27/21 13:51	jlw
Aluminum, total recoverable	M200.7 ICP	1	0.203	B	*	mg/L	0.05	0.25	05/26/21 12:50	jlw
Arsenic, dissolved	M200.8 ICP-MS	1	0.0153			mg/L	0.0002	0.001	05/25/21 12:58	mfm
Arsenic, total recoverable	M200.8 ICP-MS	1	0.0148			mg/L	0.0002	0.001	05/26/21 11:24	mfm
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	05/26/21 16:07	kja
Boron, total recoverable	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	05/26/21 12:50	jlw
Cadmium, dissolved	M200.8 ICP-MS	1	0.00987			mg/L	0.00005	0.00025	06/10/21 20:41	bsu
Cadmium, total recoverable	M200.8 ICP-MS	5	0.00717			mg/L	0.00025	0.00125	06/10/21 15:37	mfm
Calcium, dissolved	M200.7 ICP	1	30.1			mg/L	0.1	0.5	05/26/21 16:07	kja
Chromium, total recoverable	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	05/26/21 11:24	mfm
Cobalt, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	05/26/21 16:07	kja
Cobalt, total recoverable	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	05/26/21 12:50	jlw
Copper, dissolved	M200.8 ICP-MS	1	0.00340			mg/L	0.0008	0.002	05/25/21 12:58	mfm
Copper, total recoverable	M200.8 ICP-MS	1	0.00357			mg/L	0.0008	0.002	05/26/21 11:24	mfm
Iron, dissolved	M200.7 ICP	1	<0.06	U	*	mg/L	0.06	0.15	05/26/21 16:07	kja
Iron, total recoverable	M200.7 ICP	1	0.098	B		mg/L	0.06	0.15	05/26/21 12:50	jlw
Lead, dissolved	M200.8 ICP-MS	1	0.00036	B		mg/L	0.0001	0.0005	05/25/21 12:58	mfm
Lead, total recoverable	M200.8 ICP-MS	1	0.00065			mg/L	0.0001	0.0005	05/26/21 11:24	mfm
Magnesium, dissolved	M200.7 ICP	1	3.09			mg/L	0.2	1	05/26/21 16:07	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	05/26/21 16:07	kja
Manganese, total recoverable	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	05/26/21 12:50	jlw
Mercury, total	M1631E, Atomic Fluorescence	1	4.15		*	ng/L	0.3	1	05/28/21 9:00	enb
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	05/26/21 16:07	kja
Nickel, total recoverable	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	05/26/21 12:50	jlw
Potassium, dissolved	M200.7 ICP	1	2.41			mg/L	0.2	1	05/26/21 16:07	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.00024	B		mg/L	0.0001	0.00025	05/25/21 12:58	mfm
Selenium, total recoverable	M200.8 ICP-MS	1	0.00024	B		mg/L	0.0001	0.00025	05/26/21 11:24	mfm
Silica, dissolved	M200.7 ICP	1	28.8		*	mg/L	0.2	1	05/26/21 16:07	kja
Silica, total recoverable	M200.7 ICP	1	29.2		*	mg/L	0.2	1	05/26/21 12:50	jlw
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	05/25/21 12:58	mfm
Silver, total recoverable	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	05/26/21 11:24	mfm
Sodium, dissolved	M200.7 ICP	1	4.70			mg/L	0.2	1	05/26/21 16:07	kja
Uranium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	05/25/21 12:58	mfm
Uranium, total recoverable	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	05/26/21 11:24	mfm
Zinc, dissolved	M200.8 ICP-MS	1	1.72		*	mg/L	0.006	0.015	05/25/21 12:58	mfm

Rio Grande Silver, Inc.

Project ID: BO44726

Sample ID: WG-D

ACZ Sample ID: **L65941-05**

Date Sampled: 05/18/21 10:35

Date Received: 05/20/21

Sample Matrix: Surface Water

Zinc, total recoverable	M200.8 ICP-MS	1	1.62	*	mg/L	0.006	0.015	05/26/21 11:24	mfm
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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	10.7	B		mg/L	2	20	05/22/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	05/22/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	05/22/21 0:00	eep
Total Alkalinity		1	10.7	B		mg/L	2	20	05/22/21 0:00	eep
Carbon, dissolved organic (DOC)	SM5310B	1	4.3	B	*	mg/L	1	5	05/22/21 7:26	ttg
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-4.5			%			06/14/21 0:00	calc
Sum of Anions			2.3			meq/L			06/14/21 0:00	calc
Sum of Cations			2.1			meq/L			06/14/21 0:00	calc
Chemical Oxygen Demand	M410.4	1	<10	U	*	mg/L	10	20	05/26/21 14:15	scd
Chloride	M300.0 - Ion Chromatography	1	1.20	B	*	mg/L	0.4	2	05/26/21 20:28	krh
Fluoride	SM4500F-C	1	0.20	B		mg/L	0.15	0.35	05/26/21 23:42	emk
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		88			mg/L	0.2	5	06/14/21 0:00	calc
Nitrate as N, dissolved	Calculation: NO ₃ NO ₂ minus NO ₂		0.67	H		mg/L	0.02	0.1	06/14/21 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.665	H	*	mg/L	0.02	0.1	05/22/21 1:58	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	UH	*	mg/L	0.01	0.05	05/22/21 1:58	pjb
Nitrogen, ammonia	M350.1 Auto Salicylate w/gas diffusion	1	<0.05	U	*	mg/L	0.05	0.2	06/10/21 14:33	syw
Nitrogen, organic	M351.2 & M350.1 - TKN minus NH ₃		0.3	B		mg/L	0.2	0.5	06/14/21 0:00	calc
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	1	0.30	B	*	mg/L	0.2	0.5	06/08/21 23:40	pjb
pH (lab)	SM4500H+ B									
pH		1	7.2	H		units	0.1	0.1	05/22/21 0:00	eep
pH measured at		1	20.2			C	0.1	0.1	05/22/21 0:00	eep
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	0.036	B	*	mg/L	0.01	0.05	06/09/21 1:34	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	190			mg/L	20	40	05/24/21 16:36	jck
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	05/25/21 11:00	cgm
Sulfate	M300.0 - Ion Chromatography	1	94.5			mg/L	0.4	2	05/26/21 20:28	krh
Sulfide as S	SM4500S2-D	1	<0.02	U		mg/L	0.02	0.1	05/24/21 13:40	jck

Rio Grande Silver, Inc.

Project ID: BO44726

Sample ID: TRIP BLANK

ACZ Sample ID: **L65941-06**

Date Sampled: 05/18/21 10:30

Date Received: 05/20/21

Sample Matrix: Surface Water

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	05/28/21 9:05	enb

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: **L65941**

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
WG519715													
WG519715PBW1	PBW	05/21/21 19:38				2.9	mg/L		-20	20			
WG519715LCSW3	LCSW	05/21/21 19:59	WC210517-8	820.0001		794.9	mg/L	97	90	110			
WG519715LCSW6	LCSW	05/21/21 22:52	WC210517-8	820.0001		797.4	mg/L	97	90	110			
WG519715PBW2	PBW	05/21/21 22:59				U	mg/L		-20	20			
WG519715LCSW9	LCSW	05/22/21 1:59	WC210517-8	820.0001		799.7	mg/L	98	90	110			
WG519715PBW3	PBW	05/22/21 2:06				U	mg/L		-20	20			
L65950-02DUP	DUP	05/22/21 5:07			243	243.4	mg/L				0	20	
WG519715LCSW12	LCSW	05/22/21 5:27	WC210517-8	820.0001		824.2	mg/L	101	90	110			
WG519715PBW4	PBW	05/22/21 5:34				U	mg/L		-20	20			
WG519715LCSW15	LCSW	05/22/21 8:36	WC210517-8	820.0001		809.4	mg/L	99	90	110			

Aluminum, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520003													
WG520003ICV	ICV	05/27/21 13:10	II210514-2	2		1.975	mg/L	99	95	105			
WG520003ICB	ICB	05/27/21 13:16				U	mg/L		-0.15	0.15			
WG520003PQV	PQV	05/27/21 13:19	II210503-4	.250325		.217	mg/L	87	70	130			
WG520003SIC	SIC	05/27/21 13:22	II210506-2	200.510325		204.8	mg/L	102	1	200			
WG520003LFB	LFB	05/27/21 13:29	II210507-4	1.0013		.998	mg/L	100	85	115			
L65941-03AS	AS	05/27/21 13:42	II210507-4	1.0013	.471	4.912	mg/L	444	85	115			M1
L65941-03ASD	ASD	05/27/21 13:45	II210507-4	1.0013	.471	4.505	mg/L	403	85	115	9	20	M1
WG520003CCV	CCV	05/27/21 13:58	II210517-1	1		.938	mg/L	94	90	110			
WG520003CCB	CCB	05/27/21 14:01				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
WG519910													
WG519910ICV	ICV	05/26/21 11:00	II210514-2	2		1.964	mg/L	98	95	105			
WG519910ICB	ICB	05/26/21 11:07				U	mg/L		-0.15	0.15			
WG519910PQV	PQV	05/26/21 11:10	II210503-4	.250325		.246	mg/L	98	70	130			
WG519910SIC	SIC	05/26/21 11:13	II210506-2	200.510325		201.7	mg/L	101	1	200			
WG519816LRB	LRB	05/26/21 11:20				U	mg/L		-0.11	0.11			
WG519816LFB	LFB	05/26/21 11:23	II210507-4	1.0013		.999	mg/L	100	85	115			
WG519910CCV1	CCV	05/26/21 11:52	II210517-1	1		.971	mg/L	97	90	110			
WG519910CCB1	CCB	05/26/21 11:55				U	mg/L		-0.15	0.15			
WG519910CCV2	CCV	05/26/21 12:31	II210517-1	1		.949	mg/L	95	90	110			
WG519910CCB2	CCB	05/26/21 12:34				U	mg/L		-0.15	0.15			
L65941-04LFM	LFM	05/26/21 12:44	II210507-4	1.0013	3.8	5.306	mg/L	150	70	130			M3
L65941-04LFMD	LFMD	05/26/21 12:47	II210507-4	1.0013	3.8	5.283	mg/L	148	70	130	0	20	M3
WG519910CCV3	CCV	05/26/21 12:57	II210517-1	1		.951	mg/L	95	90	110			
WG519910CCB3	CCB	05/26/21 13:00				U	mg/L		-0.15	0.15			

Rio Grande Silver, Inc.

ACZ Project ID: **L65941**

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
WG519838													
WG519838ICV	ICV	05/25/21 12:04	MS210503-1	.05		.0512	mg/L	102	90	110			
WG519838ICB	ICB	05/25/21 12:05				U	mg/L		-0.00044	0.00044			
WG519838LFB	LFB	05/25/21 12:07	MS210420-3	.05005		.04684	mg/L	94	85	115			
WG519838CCV1	CCV	05/25/21 12:25	MS210521-8	.1001		.09449	mg/L	94	90	110			
WG519838CCB1	CCB	05/25/21 12:27				U	mg/L		-0.0006	0.0006			
WG519838CCV2	CCV	05/25/21 12:47	MS210521-8	.1001		.09529	mg/L	95	90	110			
WG519838CCB2	CCB	05/25/21 12:49				U	mg/L		-0.0006	0.0006			
L65941-02AS	AS	05/25/21 12:51	MS210420-3	.05005	.0247	.07301	mg/L	97	70	130			
L65941-02ASD	ASD	05/25/21 12:52	MS210420-3	.05005	.0247	.0717	mg/L	94	70	130	2	20	
WG519838CCV3	CCV	05/25/21 13:00	MS210521-8	.1001		.09671	mg/L	97	90	110			
WG519838CCB3	CCB	05/25/21 13:01				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
WG519908													
WG519908ICV	ICV	05/26/21 10:29	MS210503-1	.05		.04934	mg/L	99	90	110			
WG519908ICB	ICB	05/26/21 10:30				U	mg/L		-0.0006	0.0006			
WG519802LRB	LRB	05/26/21 10:32				U	mg/L		-0.00044	0.00044			
WG519802LFB	LFB	05/26/21 10:34	MS210420-3	.05005		.04544	mg/L	91	85	115			
WG519908CCV1	CCV	05/26/21 10:50	MS210521-8	.1001		.10285	mg/L	103	90	110			
WG519908CCB1	CCB	05/26/21 10:52				U	mg/L		-0.0006	0.0006			
WG519908CCV2	CCV	05/26/21 11:12	MS210521-8	.1001		.10353	mg/L	103	90	110			
WG519908CCB2	CCB	05/26/21 11:13				U	mg/L		-0.0006	0.0006			
L65941-02LFM	LFM	05/26/21 11:17	MS210420-3	.05005	.0343	.08232	mg/L	96	70	130			
L65941-02LFMD	LFMD	05/26/21 11:19	MS210420-3	.05005	.0343	.08046	mg/L	92	70	130	2	20	
WG519908CCV3	CCV	05/26/21 11:26	MS210521-8	.1001		.0989	mg/L	99	90	110			
WG519908CCB3	CCB	05/26/21 11:28				U	mg/L		-0.0006	0.0006			

Boron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519841													
WG519841ICV	ICV	05/26/21 15:25	II210514-2	2		1.997	mg/L	100	95	105			
WG519841ICB	ICB	05/26/21 15:31				U	mg/L		-0.09	0.09			
WG519841PQV	PQV	05/26/21 15:34	II210503-4	.1001		.098	mg/L	98	70	130			
WG519841SIC	SIC	05/26/21 15:37	II210506-2	.1001		.082	mg/L	82	80	120			
WG519841LFB	LFB	05/26/21 15:43	II210507-4	.5005		.476	mg/L	95	85	115			
L65941-03AS	AS	05/26/21 15:58	II210507-4	.5005	U	.484	mg/L	97	85	115			
L65941-03ASD	ASD	05/26/21 16:01	II210507-4	.5005	U	.48	mg/L	96	85	115	1	20	
WG519841CCV1	CCV	05/26/21 16:14	II210517-1	1		.985	mg/L	99	90	110			
WG519841CCB1	CCB	05/26/21 16:17				U	mg/L		-0.09	0.09			
WG519841CCV2	CCV	05/26/21 16:51	II210517-1	1		.984	mg/L	98	90	110			
WG519841CCB2	CCB	05/26/21 16:54				U	mg/L		-0.09	0.09			
WG519841CCV3	CCV	05/26/21 17:13	II210517-1	1		.985	mg/L	99	90	110			
WG519841CCB3	CCB	05/26/21 17:16				U	mg/L		-0.09	0.09			

Rio Grande Silver, Inc.

ACZ Project ID: **L65941**

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.

Boron, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519910													
WG519910ICV	ICV	05/26/21 11:00	II210514-2	2		2.008	mg/L	100	95	105			
WG519910ICB	ICB	05/26/21 11:07				U	mg/L		-0.09	0.09			
WG519910PQV	PQV	05/26/21 11:10	II210503-4	.1001		.106	mg/L	106	70	130			
WG519910SIC	SIC	05/26/21 11:13	II210506-2	.1001		.101	mg/L	101	80	120			
WG519816LRB	LRB	05/26/21 11:20				U	mg/L		-0.066	0.066			
WG519816LFB	LFB	05/26/21 11:23	II210507-4	.5005		.497	mg/L	99	85	115			
WG519910CCV1	CCV	05/26/21 11:52	II210517-1	1		.99	mg/L	99	90	110			
WG519910CCB1	CCB	05/26/21 11:55				U	mg/L		-0.09	0.09			
WG519910CCV2	CCV	05/26/21 12:31	II210517-1	1		.973	mg/L	97	90	110			
WG519910CCB2	CCB	05/26/21 12:34				U	mg/L		-0.09	0.09			
L65941-04LFM	LFM	05/26/21 12:44	II210507-4	.5005	U	.493	mg/L	99	70	130			
L65941-04LFMD	LFMD	05/26/21 12:47	II210507-4	.5005	U	.492	mg/L	98	70	130	0	20	
WG519910CCV3	CCV	05/26/21 12:57	II210517-1	1		.968	mg/L	97	90	110			
WG519910CCB3	CCB	05/26/21 13:00				U	mg/L		-0.09	0.09			

Cadmium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519838													
WG519838ICV	ICV	05/25/21 12:04	MS210503-1	.05		.053622	mg/L	107	90	110			
WG519838ICB	ICB	05/25/21 12:05				U	mg/L		-0.00011	0.00011			
WG519838LFB	LFB	05/25/21 12:07	MS210420-3	.05005		.047792	mg/L	95	85	115			
WG519838CCV1	CCV	05/25/21 12:25	MS210521-8	.1001		.099332	mg/L	99	90	110			
WG519838CCB1	CCB	05/25/21 12:27				U	mg/L		-0.00015	0.00015			
WG519838CCV2	CCV	05/25/21 12:47	MS210521-8	.1001		.097734	mg/L	98	90	110			
WG519838CCB2	CCB	05/25/21 12:49				U	mg/L		-0.00015	0.00015			
L65941-02AS	AS	05/25/21 12:51	MS210420-3	.05005	.0146	.064084	mg/L	99	70	130			
L65941-02ASD	ASD	05/25/21 12:52	MS210420-3	.05005	.0146	.062447	mg/L	96	70	130	3	20	
WG519838CCV3	CCV	05/25/21 13:00	MS210521-8	.1001		.096056	mg/L	96	90	110			
WG519838CCB3	CCB	05/25/21 13:01				U	mg/L		-0.00015	0.00015			
WG520780													
WG520780ICV	ICV	06/10/21 19:47	MS210503-1	.05		.050704	mg/L	101	90	110			
WG520780ICB	ICB	06/10/21 19:48				.000059	mg/L		-0.00011	0.00011			
WG520780LFB	LFB	06/10/21 19:50	MS210420-3	.05005		.047242	mg/L	94	85	115			
L66278-01AS	AS	06/10/21 19:54	MS210420-3	.05005	.000113	.05183	mg/L	103	70	130			
L66278-01ASD	ASD	06/10/21 19:56	MS210420-3	.05005	.000113	.052272	mg/L	104	70	130	1	20	
WG520780CCV1	CCV	06/10/21 20:05	MS210521-8	.1001		.097594	mg/L	97	90	110			
WG520780CCB1	CCB	06/10/21 20:07				U	mg/L		-0.00015	0.00015			
WG520780CCV2	CCV	06/10/21 20:28	MS210521-8	.1001		.09568	mg/L	96	90	110			
WG520780CCB2	CCB	06/10/21 20:29				U	mg/L		-0.00015	0.00015			
WG520780CCV3	CCV	06/10/21 20:44	MS210521-8	.1001		.097426	mg/L	97	90	110			
WG520780CCB3	CCB	06/10/21 20:46				U	mg/L		-0.00015	0.00015			

Rio Grande Silver, Inc.

ACZ Project ID: **L65941**

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, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519908													
WG519908ICV	ICV	05/26/21 10:29	MS210503-1	.05		.050177	mg/L	100	90	110			
WG519908ICB	ICB	05/26/21 10:30				U	mg/L		-0.00015	0.00015			
WG519802LRB	LRB	05/26/21 10:32				U	mg/L		-0.00011	0.00011			
WG519802LFB	LFB	05/26/21 10:34	MS210420-3	.05005		.046746	mg/L	93	85	115			
WG519908CCV1	CCV	05/26/21 10:50	MS210521-8	.1001		.100209	mg/L	100	90	110			
WG519908CCB1	CCB	05/26/21 10:52				U	mg/L		-0.00015	0.00015			
WG519908CCV2	CCV	05/26/21 11:12	MS210521-8	.1001		.103384	mg/L	103	90	110			
WG519908CCB2	CCB	05/26/21 11:13				U	mg/L		-0.00015	0.00015			
L65941-02LFM	LFM	05/26/21 11:17	MS210420-3	.05005	.0125	.06062	mg/L	96	70	130			
L65941-02LFMD	LFMD	05/26/21 11:19	MS210420-3	.05005	.0125	.06035	mg/L	96	70	130	0	20	
WG519908CCV3	CCV	05/26/21 11:26	MS210521-8	.1001		.098435	mg/L	98	90	110			
WG519908CCB3	CCB	05/26/21 11:28				U	mg/L		-0.00015	0.00015			

WG520815

WG520815ICV	ICV	06/10/21 14:57	MS210503-1	.05		.04807	mg/L	96	90	110			
WG520815ICB	ICB	06/10/21 14:59				U	mg/L		-0.00015	0.00015			
WG520610LRB	LRB	06/10/21 15:01				U	mg/L		-0.00011	0.00011			
WG520610LFB	LFB	06/10/21 15:03	MS210420-3	.05005		.048008	mg/L	96	85	115			
WG520815CCV1	CCV	06/10/21 15:19	MS210521-8	.1001		.098955	mg/L	99	90	110			
WG520815CCB1	CCB	06/10/21 15:21				U	mg/L		-0.00015	0.00015			
WG520815CCV2	CCV	06/10/21 15:41	MS210521-8	.1001		.09835	mg/L	98	90	110			
WG520815CCB2	CCB	06/10/21 15:42				U	mg/L		-0.00015	0.00015			
L66228-03LFM	LFM	06/10/21 15:52	MS2XW	.1001	.118	.220403	mg/L	102	70	130			
L66228-03LFMD	LFMD	06/10/21 15:53	MS2XW	.1001	.118	.219616	mg/L	102	70	130	0	20	
WG520815CCV3	CCV	06/10/21 15:55	MS210521-8	.1001		.104921	mg/L	105	90	110			
WG520815CCB3	CCB	06/10/21 15:57				U	mg/L		-0.00015	0.00015			

Calcium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519841													
WG519841ICV	ICV	05/26/21 15:25	II210514-2	100		97.7	mg/L	98	95	105			
WG519841ICB	ICB	05/26/21 15:31				U	mg/L		-0.3	0.3			
WG519841PQV	PQV	05/26/21 15:34	II210503-4	.5006		.58	mg/L	116	70	130			
WG519841SIC	SIC	05/26/21 15:37	II210506-2	200.5606		197.7	mg/L	99	1	200			
WG519841LFB	LFB	05/26/21 15:43	II210507-4	67.98753		65.19	mg/L	96	85	115			
L65941-03AS	AS	05/26/21 15:58	II210507-4	67.98753	8.04	74.08	mg/L	97	85	115			
L65941-03ASD	ASD	05/26/21 16:01	II210507-4	67.98753	8.04	73.41	mg/L	96	85	115	1	20	
WG519841CCV1	CCV	05/26/21 16:14	II210517-1	50		50.37	mg/L	101	90	110			
WG519841CCB1	CCB	05/26/21 16:17				.11	mg/L		-0.3	0.3			
WG519841CCV2	CCV	05/26/21 16:51	II210517-1	50		49.76	mg/L	100	90	110			
WG519841CCB2	CCB	05/26/21 16:54				.12	mg/L		-0.3	0.3			
WG519841CCV3	CCV	05/26/21 17:13	II210517-1	50		49	mg/L	98	90	110			
WG519841CCB3	CCB	05/26/21 17:16				.14	mg/L		-0.3	0.3			

Rio Grande Silver, Inc.

ACZ Project ID: **L65941**

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.

Carbon, dissolved organic (DOC)

SM5310B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519681													
WG519681ICV	ICV	05/21/21 18:53	WI210521-3	100		101.3	mg/L	101	90	110			
WG519681ICB	ICB	05/21/21 19:05				U	mg/L		-3	3			
WG519683													
WG519683CCV1	CCV	05/22/21 1:55	WI210505-1	50		48.9	mg/L	98	90	110			
WG519683CCB1	CCB	05/22/21 2:06				U	mg/L		-3	3			
WG519683PQV	PQV	05/22/21 2:19	WI210521-4	5		5	mg/L	100	70	130			
WG519683CCV2	CCV	05/22/21 4:31	WI210505-1	50		50	mg/L	100	90	110			
WG519683CCB2	CCB	05/22/21 4:43				U	mg/L		-3	3			
WG519683CCV3	CCV	05/22/21 6:26	WI210505-1	50		50.3	mg/L	101	90	110			
WG519683CCB3	CCB	05/22/21 6:38				U	mg/L		-3	3			
L65947-01DUP	DUP	05/22/21 7:48			1.6	1.6	mg/L				0	20	RA
WG519683CCV4	CCV	05/22/21 8:30	WI210505-1	50		50.9	mg/L	102	90	110			
WG519683CCB4	CCB	05/22/21 8:41				U	mg/L		-3	3			
WG519683CCV5	CCV	05/22/21 16:52	WI210505-1	50		49.3	mg/L	99	90	110			
WG519683CCB5	CCB	05/22/21 17:03				U	mg/L		-3	3			
WG519683LFB	LFB	05/22/21 17:17	WI210128-1	50		48.8	mg/L	98	90	110			
L65947-02AS	AS	05/22/21 18:14	WI210128-1	50	3.6	54.7	mg/L	102	90	110			
WG519683CCV6	CCV	05/22/21 18:30	WI210505-1	50		49.7	mg/L	99	90	110			
WG519683CCB6	CCB	05/22/21 18:42				U	mg/L		-3	3			

Chemical Oxygen Demand

M410.4

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519914													
WG519914ICV	ICV	05/26/21 10:30	WC201026-6	200		205	mg/L	103	90	110			
WG519914ICB	ICB	05/26/21 10:45				U	mg/L		-10	10			
WG519914LRB	LRB	05/26/21 11:00				U	mg/L		-10	10			
WG519914LFB	LFB	05/26/21 11:15	WC210406-5	50		46	mg/L	92	90	110			
WG519914CCV1	CCV	05/26/21 13:30	WC210406-4	400		412	mg/L	103	90	110			
WG519914CCB1	CCB	05/26/21 13:45				U	mg/L		-10	10			
L65941-05DUP	DUP	05/26/21 14:30			U	U	mg/L				0	20	RA
L65941-05AS	AS	05/26/21 14:45	WC210406-5	50	U	53	mg/L	106	90	110			
WG519914CCV2	CCV	05/26/21 15:00	WC210406-4	400		407	mg/L	102	90	110			
WG519914CCB2	CCB	05/26/21 15:15				U	mg/L		-10	10			

Rio Grande Silver, Inc.

ACZ Project ID: **L65941**

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
WG519666													
WG519666ICV	ICV	05/20/21 17:50	WI210520-6	19.96		20.29	mg/L	102	90	110			
WG519666ICB	ICB	05/20/21 18:08				U	mg/L		-0.4	0.4			
WG519870													
WG519870CCV1	CCV	05/26/21 12:07	WI210520-2	50		54.08	mg/L	108	90	110			
WG519870CCB1	CCB	05/26/21 12:25				U	mg/L		-0.4	0.4			
WG519870PQV	PQV	05/26/21 12:43	WI210520-1	1.998		2.12	mg/L	106	70	130			
WG519870LFB1	LFB	05/26/21 13:00	WI210329-1	30		32.88	mg/L	110	90	110			
WG519870CCV2	CCV	05/26/21 15:42	WI210520-2	50		53.9	mg/L	108	90	110			
WG519870CCB2	CCB	05/26/21 16:00				U	mg/L		-0.4	0.4			
L65911-04DUP	DUP	05/26/21 17:47			1.92	1.95	mg/L				2	20	RA
L65911-05AS	AS	05/26/21 18:23	WI210329-1	60	1.12	67.72	mg/L	111	90	110			M1
WG519870CCV3	CCV	05/26/21 19:17	WI210520-2	50		54.05	mg/L	108	90	110			
WG519870CCB3	CCB	05/26/21 19:35				U	mg/L		-0.4	0.4			
WG519870LFB2	LFB	05/26/21 21:40	WI210329-1	30		32.79	mg/L	109	90	110			
WG519870CCV4	CCV	05/26/21 22:52	WI210520-2	50		54.33	mg/L	109	90	110			
WG519870CCB4	CCB	05/26/21 23:10				U	mg/L		-0.4	0.4			
WG519870CCV5	CCV	05/27/21 2:09	WI210520-2	50		54.31	mg/L	109	90	110			
WG519870CCB5	CCB	05/27/21 2:27				U	mg/L		-0.4	0.4			
WG519870CCV6	CCV	05/27/21 18:49	WI210520-2	50		53.83	mg/L	108	90	110			
WG519870CCB6	CCB	05/27/21 19:07				U	mg/L		-0.4	0.4			
WG519870PQV1	PQV	05/27/21 19:25	WI210520-1	1.998		2.07	mg/L	104	70	130			
WG519870CCV7	CCV	05/27/21 22:24	WI210520-2	50		53.79	mg/L	108	90	110			
WG519870CCB7	CCB	05/27/21 22:42				U	mg/L		-0.4	0.4			

Chromium, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519908													
WG519908ICV	ICV	05/26/21 10:29	MS210503-1	.05		.05065	mg/L	101	90	110			
WG519908ICB	ICB	05/26/21 10:30				U	mg/L		-0.0015	0.0015			
WG519802LRB	LRB	05/26/21 10:32				U	mg/L		-0.0011	0.0011			
WG519802LFB	LFB	05/26/21 10:34	MS210420-3	.05		.04612	mg/L	92	85	115			
WG519908CCV1	CCV	05/26/21 10:50	MS210521-8	.1		.10099	mg/L	101	90	110			
WG519908CCB1	CCB	05/26/21 10:52				U	mg/L		-0.0015	0.0015			
WG519908CCV2	CCV	05/26/21 11:12	MS210521-8	.1		.10073	mg/L	101	90	110			
WG519908CCB2	CCB	05/26/21 11:13				U	mg/L		-0.0015	0.0015			
L65941-02LFM	LFM	05/26/21 11:17	MS210420-3	.05	.00068	.04759	mg/L	94	70	130			
L65941-02LFMD	LFMD	05/26/21 11:19	MS210420-3	.05	.00068	.04659	mg/L	92	70	130	2	20	
WG519908CCV3	CCV	05/26/21 11:26	MS210521-8	.1		.09842	mg/L	98	90	110			
WG519908CCB3	CCB	05/26/21 11:28				U	mg/L		-0.0015	0.0015			

Rio Grande Silver, Inc.

ACZ Project ID: **L65941**

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.

Cobalt, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519841													
WG519841ICV	ICV	05/26/21 15:25	II210514-2	2.004		1.977	mg/L	99	95	105			
WG519841ICB	ICB	05/26/21 15:31				U	mg/L		-0.06	0.06			
WG519841PQV	PQV	05/26/21 15:34	II210503-4	.05005		.047	mg/L	94	70	130			
WG519841SIC	SIC	05/26/21 15:37	II210506-2	.1001		.093	mg/L	93	80	120			
WG519841LFB	LFB	05/26/21 15:43	II210507-4	.5005		.459	mg/L	92	85	115			
L65941-03AS	AS	05/26/21 15:58	II210507-4	.5005	U	.458	mg/L	92	85	115			
L65941-03ASD	ASD	05/26/21 16:01	II210507-4	.5005	U	.462	mg/L	92	85	115	1	20	
WG519841CCV1	CCV	05/26/21 16:14	II210517-1	1.002		.993	mg/L	99	90	110			
WG519841CCB1	CCB	05/26/21 16:17				U	mg/L		-0.06	0.06			
WG519841CCV2	CCV	05/26/21 16:51	II210517-1	1.002		.993	mg/L	99	90	110			
WG519841CCB2	CCB	05/26/21 16:54				U	mg/L		-0.06	0.06			
WG519841CCV3	CCV	05/26/21 17:13	II210517-1	1.002		.978	mg/L	98	90	110			
WG519841CCB3	CCB	05/26/21 17:16				U	mg/L		-0.06	0.06			

Cobalt, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519910													
WG519910ICV	ICV	05/26/21 11:00	II210514-2	2.004		1.943	mg/L	97	95	105			
WG519910ICB	ICB	05/26/21 11:07				U	mg/L		-0.06	0.06			
WG519910PQV	PQV	05/26/21 11:10	II210503-4	.05005		.05	mg/L	100	70	130			
WG519910SIC	SIC	05/26/21 11:13	II210506-2	.1001		.093	mg/L	93	80	120			
WG519816LRB	LRB	05/26/21 11:20				U	mg/L		-0.044	0.044			
WG519816LFB	LFB	05/26/21 11:23	II210507-4	.5005		.478	mg/L	96	85	115			
WG519910CCV1	CCV	05/26/21 11:52	II210517-1	1.002		.982	mg/L	98	90	110			
WG519910CCB1	CCB	05/26/21 11:55				U	mg/L		-0.06	0.06			
WG519910CCV2	CCV	05/26/21 12:31	II210517-1	1.002		.959	mg/L	96	90	110			
WG519910CCB2	CCB	05/26/21 12:34				U	mg/L		-0.06	0.06			
L65941-04LFM	LFM	05/26/21 12:44	II210507-4	.5005	U	.468	mg/L	94	70	130			
L65941-04LFMD	LFMD	05/26/21 12:47	II210507-4	.5005	U	.47	mg/L	94	70	130	0	20	
WG519910CCV3	CCV	05/26/21 12:57	II210517-1	1.002		.953	mg/L	95	90	110			
WG519910CCB3	CCB	05/26/21 13:00				U	mg/L		-0.06	0.06			

Copper, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519838													
WG519838ICV	ICV	05/25/21 12:04	MS210503-1	.05		.05444	mg/L	109	90	110			
WG519838ICB	ICB	05/25/21 12:05				U	mg/L		-0.00176	0.00176			
WG519838LFB	LFB	05/25/21 12:07	MS210420-3	.05		.04782	mg/L	96	85	115			
WG519838CCV1	CCV	05/25/21 12:25	MS210521-8	.25		.24511	mg/L	98	90	110			
WG519838CCB1	CCB	05/25/21 12:27				U	mg/L		-0.0024	0.0024			
WG519838CCV2	CCV	05/25/21 12:47	MS210521-8	.25		.24534	mg/L	98	90	110			
WG519838CCB2	CCB	05/25/21 12:49				U	mg/L		-0.0024	0.0024			
L65941-02AS	AS	05/25/21 12:51	MS210420-3	.05	.0086	.05511	mg/L	93	70	130			
L65941-02ASD	ASD	05/25/21 12:52	MS210420-3	.05	.0086	.05429	mg/L	91	70	130	1	20	
WG519838CCV3	CCV	05/25/21 13:00	MS210521-8	.25		.24933	mg/L	100	90	110			
WG519838CCB3	CCB	05/25/21 13:01				U	mg/L		-0.0024	0.0024			

Rio Grande Silver, Inc.

ACZ Project ID: **L65941**

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
WG519908													
WG519908ICV	ICV	05/26/21 10:29	MS210503-1	.05		.05067	mg/L	101	90	110			
WG519908ICB	ICB	05/26/21 10:30				U	mg/L		-0.0024	0.0024			
WG519802LRB	LRB	05/26/21 10:32				U	mg/L		-0.00176	0.00176			
WG519802LFB	LFB	05/26/21 10:34	MS210420-3	.05		.04608	mg/L	92	85	115			
WG519908CCV1	CCV	05/26/21 10:50	MS210521-8	.25		.25608	mg/L	102	90	110			
WG519908CCB1	CCB	05/26/21 10:52				U	mg/L		-0.0024	0.0024			
WG519908CCV2	CCV	05/26/21 11:12	MS210521-8	.25		.25468	mg/L	102	90	110			
WG519908CCB2	CCB	05/26/21 11:13				U	mg/L		-0.0024	0.0024			
L65941-02LFM	LFM	05/26/21 11:17	MS210420-3	.05	.0105	.05696	mg/L	93	70	130			
L65941-02LFMD	LFMD	05/26/21 11:19	MS210420-3	.05	.0105	.05575	mg/L	91	70	130	2	20	
WG519908CCV3	CCV	05/26/21 11:26	MS210521-8	.25		.24907	mg/L	100	90	110			
WG519908CCB3	CCB	05/26/21 11:28				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
WG519919													
WG519919ICV	ICV	05/26/21 12:36	WC210513-1	2.002		1.92	mg/L	96	90	110			
WG519919ICB	ICB	05/26/21 12:40				U	mg/L		-0.3	0.3			
WG519955													
WG519955ICV	ICV	05/26/21 17:43	WC210526-1	2.002		2.05	mg/L	102	90	110			
WG519955ICB	ICB	05/26/21 17:51				U	mg/L		-0.3	0.3			
WG519955PQV	PQV	05/26/21 17:55	WC210330-2	.35105		.31	mg/L	88	70	130			
WG519955LFB1	LFB	05/26/21 17:58	WC201221-2	5.015		5.36	mg/L	107	90	110			
WG519955CCV1	CCV	05/26/21 19:10	WC210526-1	2.002		1.98	mg/L	99	90	110			
WG519955CCB1	CCB	05/26/21 19:18				U	mg/L		-0.3	0.3			
WG519955CCV2	CCV	05/26/21 20:35	WC210526-1	2.002		2.07	mg/L	103	90	110			
WG519955CCB2	CCB	05/26/21 20:43				U	mg/L		-0.3	0.3			
WG519955LFB2	LFB	05/26/21 21:04	WC201221-2	5.015		5.24	mg/L	104	90	110			
L65909-02AS	AS	05/26/21 21:20	WC201221-2	5.015	U	5.02	mg/L	100	90	110			
L65909-02ASD	ASD	05/26/21 21:28	WC201221-2	5.015	U	4.93	mg/L	98	90	110	2	20	
WG519955CCV3	CCV	05/26/21 21:51	WC210526-1	2.002		2.04	mg/L	102	90	110			
WG519955CCB3	CCB	05/26/21 21:59				U	mg/L		-0.3	0.3			
L65928-01AS	AS	05/26/21 22:45	WC201221-2	5.015	U	5.19	mg/L	103	90	110			
L65928-01ASD	ASD	05/26/21 22:48	WC201221-2	5.015	U	5.12	mg/L	102	90	110	1	20	
WG519955CCV4	CCV	05/26/21 23:07	WC210526-1	2.002		2.1	mg/L	105	90	110			
WG519955CCB4	CCB	05/26/21 23:15				U	mg/L		-0.3	0.3			
WG519955CCV5	CCV	05/27/21 0:04	WC210526-1	2.002		2.08	mg/L	104	90	110			
WG519955CCB5	CCB	05/27/21 0:12				U	mg/L		-0.3	0.3			

Rio Grande Silver, Inc.

ACZ Project ID: **L65941**

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
WG519841													
WG519841ICV	ICV	05/26/21 15:25	II210514-2	2		1.894	mg/L	95	95	105			
WG519841ICB	ICB	05/26/21 15:31				U	mg/L		-0.18	0.18			
WG519841PQV	PQV	05/26/21 15:34	II210503-4	.15027		.161	mg/L	107	70	130			
WG519841SIC	SIC	05/26/21 15:37	II210506-2	200.17027		191.1	mg/L	95	1	200			
WG519841LFB	LFB	05/26/21 15:43	II210507-4	1.0018		.937	mg/L	94	85	115			
L65941-03AS	AS	05/26/21 15:58	II210507-4	1.0018	.439	1.509	mg/L	107	85	115			
L65941-03ASD	ASD	05/26/21 16:01	II210507-4	1.0018	.439	1.815	mg/L	137	85	115	18	20	MA
WG519841CCV1	CCV	05/26/21 16:14	II210517-1	1		.976	mg/L	98	90	110			
WG519841CCB1	CCB	05/26/21 16:17				U	mg/L		-0.18	0.18			
WG519841CCV2	CCV	05/26/21 16:51	II210517-1	1		.975	mg/L	98	90	110			
WG519841CCB2	CCB	05/26/21 16:54				U	mg/L		-0.18	0.18			
WG519841CCV3	CCV	05/26/21 17:13	II210517-1	1		.951	mg/L	95	90	110			
WG519841CCB3	CCB	05/26/21 17:16				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
WG519910													
WG519910ICV	ICV	05/26/21 11:00	II210514-2	2		1.907	mg/L	95	95	105			
WG519910ICB	ICB	05/26/21 11:07				U	mg/L		-0.18	0.18			
WG519910PQV	PQV	05/26/21 11:10	II210503-4	.15027		.147	mg/L	98	70	130			
WG519910SIC	SIC	05/26/21 11:13	II210506-2	200.17027		186.4	mg/L	93	1	200			
WG519816LRB	LRB	05/26/21 11:20				U	mg/L		-0.132	0.132			
WG519816LFB	LFB	05/26/21 11:23	II210507-4	1.0018		.984	mg/L	98	85	115			
WG519910CCV1	CCV	05/26/21 11:52	II210517-1	1		.958	mg/L	96	90	110			
WG519910CCB1	CCB	05/26/21 11:55				U	mg/L		-0.18	0.18			
WG519910CCV2	CCV	05/26/21 12:31	II210517-1	1		.929	mg/L	93	90	110			
WG519910CCB2	CCB	05/26/21 12:34				U	mg/L		-0.18	0.18			
L65941-04LFM	LFM	05/26/21 12:44	II210507-4	1.0018	1.72	2.732	mg/L	101	70	130			
L65941-04LFMD	LFMD	05/26/21 12:47	II210507-4	1.0018	1.72	2.74	mg/L	102	70	130	0	20	
WG519910CCV3	CCV	05/26/21 12:57	II210517-1	1		.933	mg/L	93	90	110			
WG519910CCB3	CCB	05/26/21 13:00				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
WG519838													
WG519838ICV	ICV	05/25/21 12:04	MS210503-1	.05		.05209	mg/L	104	90	110			
WG519838ICB	ICB	05/25/21 12:05				U	mg/L		-0.00022	0.00022			
WG519838LFB	LFB	05/25/21 12:07	MS210420-3	.05005		.04647	mg/L	93	85	115			
WG519838CCV1	CCV	05/25/21 12:25	MS210521-8	.25025		.23437	mg/L	94	90	110			
WG519838CCB1	CCB	05/25/21 12:27				U	mg/L		-0.0003	0.0003			
WG519838CCV2	CCV	05/25/21 12:47	MS210521-8	.25025		.23359	mg/L	93	90	110			
WG519838CCB2	CCB	05/25/21 12:49				U	mg/L		-0.0003	0.0003			
L65941-02AS	AS	05/25/21 12:51	MS210420-3	.05005	.00039	.04696	mg/L	93	70	130			
L65941-02ASD	ASD	05/25/21 12:52	MS210420-3	.05005	.00039	.04573	mg/L	91	70	130	3	20	
WG519838CCV3	CCV	05/25/21 13:00	MS210521-8	.25025		.24136	mg/L	96	90	110			
WG519838CCB3	CCB	05/25/21 13:01				U	mg/L		-0.0003	0.0003			

Rio Grande Silver, Inc.

ACZ Project ID: **L65941**

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
WG519908													
WG519908ICV	ICV	05/26/21 10:29	MS210503-1	.05		.05051	mg/L	101	90	110			
WG519908ICB	ICB	05/26/21 10:30				U	mg/L		-0.0003	0.0003			
WG519802LRB	LRB	05/26/21 10:32				U	mg/L		-0.00022	0.00022			
WG519802LFB	LFB	05/26/21 10:34	MS210420-3	.05005		.0459	mg/L	92	85	115			
WG519908CCV1	CCV	05/26/21 10:50	MS210521-8	.25025		.24484	mg/L	98	90	110			
WG519908CCB1	CCB	05/26/21 10:52				U	mg/L		-0.0003	0.0003			
WG519908CCV2	CCV	05/26/21 11:12	MS210521-8	.25025		.25206	mg/L	101	90	110			
WG519908CCB2	CCB	05/26/21 11:13				U	mg/L		-0.0003	0.0003			
L65941-02LFM	LFM	05/26/21 11:17	MS210420-3	.05005	.00138	.04964	mg/L	96	70	130			
L65941-02LFMD	LFMD	05/26/21 11:19	MS210420-3	.05005	.00138	.04849	mg/L	94	70	130	2	20	
WG519908CCV3	CCV	05/26/21 11:26	MS210521-8	.25025		.24477	mg/L	98	90	110			
WG519908CCB3	CCB	05/26/21 11:28				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
WG519841													
WG519841ICV	ICV	05/26/21 15:25	II210514-2	100		95.72	mg/L	96	95	105			
WG519841ICB	ICB	05/26/21 15:31				U	mg/L		-0.6	0.6			
WG519841PQV	PQV	05/26/21 15:34	II210503-4	1.0001		1.07	mg/L	107	70	130			
WG519841SIC	SIC	05/26/21 15:37	II210506-2	201.0201		203.6	mg/L	101	1	200			
WG519841LFB	LFB	05/26/21 15:43	II210507-4	50.00302		46.27	mg/L	93	85	115			
L65941-03AS	AS	05/26/21 15:58	II210507-4	50.00302	1.16	48.29	mg/L	94	85	115			
L65941-03ASD	ASD	05/26/21 16:01	II210507-4	50.00302	1.16	48.12	mg/L	94	85	115	0	20	
WG519841CCV1	CCV	05/26/21 16:14	II210517-1	50		48.72	mg/L	97	90	110			
WG519841CCB1	CCB	05/26/21 16:17				U	mg/L		-0.6	0.6			
WG519841CCV2	CCV	05/26/21 16:51	II210517-1	50		48.19	mg/L	96	90	110			
WG519841CCB2	CCB	05/26/21 16:54				U	mg/L		-0.6	0.6			
WG519841CCV3	CCV	05/26/21 17:13	II210517-1	50		47.2	mg/L	94	90	110			
WG519841CCB3	CCB	05/26/21 17:16				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
WG519841													
WG519841ICV	ICV	05/26/21 15:25	II210514-2	2		1.928	mg/L	96	95	105			
WG519841ICB	ICB	05/26/21 15:31				U	mg/L		-0.03	0.03			
WG519841PQV	PQV	05/26/21 15:34	II210503-4	.05005		.047	mg/L	94	70	130			
WG519841SIC	SIC	05/26/21 15:37	II210506-2	50.10005		47.25	mg/L	94	1	200			
WG519841LFB	LFB	05/26/21 15:43	II210507-4	.5005		.461	mg/L	92	85	115			
L65941-03AS	AS	05/26/21 15:58	II210507-4	.5005	.076	.547	mg/L	94	85	115			
L65941-03ASD	ASD	05/26/21 16:01	II210507-4	.5005	.076	.546	mg/L	94	85	115	0	20	
WG519841CCV1	CCV	05/26/21 16:14	II210517-1	1		.995	mg/L	100	90	110			
WG519841CCB1	CCB	05/26/21 16:17				U	mg/L		-0.03	0.03			
WG519841CCV2	CCV	05/26/21 16:51	II210517-1	1		.991	mg/L	99	90	110			
WG519841CCB2	CCB	05/26/21 16:54				U	mg/L		-0.03	0.03			
WG519841CCV3	CCV	05/26/21 17:13	II210517-1	1		.97	mg/L	97	90	110			
WG519841CCB3	CCB	05/26/21 17:16				U	mg/L		-0.03	0.03			

Rio Grande Silver, Inc.

ACZ Project ID: **L65941**

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
WG519910													
WG519910ICV	ICV	05/26/21 11:00	II210514-2	2		1.924	mg/L	96	95	105			
WG519910ICB	ICB	05/26/21 11:07				U	mg/L		-0.03	0.03			
WG519910PQV	PQV	05/26/21 11:10	II210503-4	.05005		.048	mg/L	96	70	130			
WG519910SIC	SIC	05/26/21 11:13	II210506-2	50.10005		46.97	mg/L	94	1	200			
WG519816LRB	LRB	05/26/21 11:20				U	mg/L		-0.022	0.022			
WG519816LFB	LFB	05/26/21 11:23	II210507-4	.5005		.476	mg/L	95	85	115			
WG519910CCV1	CCV	05/26/21 11:52	II210517-1	1		.967	mg/L	97	90	110			
WG519910CCB1	CCB	05/26/21 11:55				U	mg/L		-0.03	0.03			
WG519910CCV2	CCV	05/26/21 12:31	II210517-1	1		.941	mg/L	94	90	110			
WG519910CCB2	CCB	05/26/21 12:34				U	mg/L		-0.03	0.03			
L65941-04LFM	LFM	05/26/21 12:44	II210507-4	.5005	.03	.498	mg/L	94	70	130			
L65941-04LFMD	LFMD	05/26/21 12:47	II210507-4	.5005	.03	.5	mg/L	94	70	130	0	20	
WG519910CCV3	CCV	05/26/21 12:57	II210517-1	1		.94	mg/L	94	90	110			
WG519910CCB3	CCB	05/26/21 13:00				U	mg/L		-0.03	0.03			

Mercury, total

M1631E, Atomic Fluorescence

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG510539													
WG510539ICV	ICV	12/02/20 11:56	HG201005-4	10		8.76	ng/L	88	79	121			
WG510539ICB	ICB	12/02/20 12:01				U	ng/L		-0.501	0.501			
WG520065													
WG520065CCV1	CCV	05/28/21 8:26	HG210407-4	10		10.3	ng/L	103	76.5	123.4			
WG520065CCB1	CCB	05/28/21 8:31				U	ng/L		-0.501	0.501			
WG520065PQV	PQV	05/28/21 8:36	HG210407-6	1		1.14	ng/L	114	70	130			
WG520065LFB	LFB	05/28/21 8:41	HG210407-5	2		1.98	ng/L	99	71	125			
WG520065CCV2	CCV	05/28/21 9:29	HG210407-4	10		9.66	ng/L	97	76.5	123.4			
WG520065CCB2	CCB	05/28/21 9:34				U	ng/L		-0.501	0.501			
L65958-05MS	MS	05/28/21 9:43	HG163110X	200	41.5	54.7	ng/L	66	71	125			MA
L65958-05MSD	MSD	05/28/21 9:48	HG163110X	200	41.5	62.4	ng/L	105	71	125	13	24	
WG520065CCV3	CCV	05/28/21 10:26	HG210407-4	10		9.48	ng/L	95	76.5	123.4			
WG520065CCB3	CCB	05/28/21 10:31				U	ng/L		-0.501	0.501			
WG520065CCV4	CCV	05/28/21 11:00	HG210407-4	10		9.37	ng/L	94	76.5	123.4			
WG520065CCB4	CCB	05/28/21 11:05				U	ng/L		-0.501	0.501			

Rio Grande Silver, Inc.

ACZ Project ID: **L65941**

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
WG519841													
WG519841ICV	ICV	05/26/21 15:25	II210514-2	2		1.9335	mg/L	97	95	105			
WG519841ICB	ICB	05/26/21 15:31				U	mg/L		-0.024	0.024			
WG519841PQV	PQV	05/26/21 15:34	II210503-4	.04016		.0411	mg/L	102	70	130			
WG519841SIC	SIC	05/26/21 15:37	II210506-2	.1004		.0962	mg/L	96	80	120			
WG519841LFB	LFB	05/26/21 15:43	II210507-4	.5		.4588	mg/L	92	85	115			
L65941-03AS	AS	05/26/21 15:58	II210507-4	.5	U	.4644	mg/L	93	85	115			
L65941-03ASD	ASD	05/26/21 16:01	II210507-4	.5	U	.4639	mg/L	93	85	115	0	20	
WG519841CCV1	CCV	05/26/21 16:14	II210517-1	1		.9918	mg/L	99	90	110			
WG519841CCB1	CCB	05/26/21 16:17				U	mg/L		-0.024	0.024			
WG519841CCV2	CCV	05/26/21 16:51	II210517-1	1		.9791	mg/L	98	90	110			
WG519841CCB2	CCB	05/26/21 16:54				U	mg/L		-0.024	0.024			
WG519841CCV3	CCV	05/26/21 17:13	II210517-1	1		.9683	mg/L	97	90	110			
WG519841CCB3	CCB	05/26/21 17:16				U	mg/L		-0.024	0.024			

Nickel, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519910													
WG519910ICV	ICV	05/26/21 11:00	II210514-2	2		1.956	mg/L	98	95	105			
WG519910ICB	ICB	05/26/21 11:07				U	mg/L		-0.024	0.024			
WG519910PQV	PQV	05/26/21 11:10	II210503-4	.04016		.0356	mg/L	89	70	130			
WG519910SIC	SIC	05/26/21 11:13	II210506-2	.1004		.0911	mg/L	91	80	120			
WG519816LRB	LRB	05/26/21 11:20				U	mg/L		-0.0176	0.0176			
WG519816LFB	LFB	05/26/21 11:23	II210507-4	.5		.4853	mg/L	97	85	115			
WG519910CCV1	CCV	05/26/21 11:52	II210517-1	1		.9845	mg/L	98	90	110			
WG519910CCB1	CCB	05/26/21 11:55				U	mg/L		-0.024	0.024			
WG519910CCV2	CCV	05/26/21 12:31	II210517-1	1		.9559	mg/L	96	90	110			
WG519910CCB2	CCB	05/26/21 12:34				U	mg/L		-0.024	0.024			
L65941-04LFM	LFM	05/26/21 12:44	II210507-4	.5	U	.4748	mg/L	95	70	130			
L65941-04LFMD	LFMD	05/26/21 12:47	II210507-4	.5	U	.4704	mg/L	94	70	130	1	20	
WG519910CCV3	CCV	05/26/21 12:57	II210517-1	1		.9499	mg/L	95	90	110			
WG519910CCB3	CCB	05/26/21 13:00				U	mg/L		-0.024	0.024			

Rio Grande Silver, Inc.

ACZ Project ID: **L65941**

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
WG519719													
WG519719ICV	ICV	05/21/21 22:15	WI210302-17	2.416		2.416	mg/L	100	90	110			
WG519719ICB	ICB	05/21/21 22:16				U	mg/L		-0.02	0.02			
WG519725													
WG519725CCV1	CCV	05/22/21 1:35	WI210520-7	2		2.06	mg/L	103	90	110			
WG519725CCB1	CCB	05/22/21 1:38				U	mg/L		-0.02	0.02			
WG519725LFB	LFB	05/22/21 1:39	WI210331-13	2		2.062	mg/L	103	90	110			
WG519725CCV2	CCV	05/22/21 1:51	WI210520-7	2		2.059	mg/L	103	90	110			
WG519725CCB2	CCB	05/22/21 1:54				U	mg/L		-0.02	0.02			
L65902-01AS	AS	05/22/21 2:05	WI210331-13	20	10.8	31.706	mg/L	105	90	110			
WG519725CCV3	CCV	05/22/21 2:08	WI210520-7	2		2.057	mg/L	103	90	110			
WG519725CCB3	CCB	05/22/21 2:11				U	mg/L		-0.02	0.02			
L65902-02DUP	DUP	05/22/21 2:12			12	11.937	mg/L				1	20	
WG519725CCV4	CCV	05/22/21 2:16	WI210520-7	2		2.05	mg/L	103	90	110			
WG519725CCB4	CCB	05/22/21 2:19				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
WG519719													
WG519719ICV	ICV	05/21/21 22:15	WI210302-17	.609		.622	mg/L	102	90	110			
WG519719ICB	ICB	05/21/21 22:16				U	mg/L		-0.01	0.01			
WG519725													
WG519725CCV1	CCV	05/22/21 1:35	WI210520-7	1		.968	mg/L	97	90	110			
WG519725CCB1	CCB	05/22/21 1:38				U	mg/L		-0.01	0.01			
WG519725LFB	LFB	05/22/21 1:39	WI210331-13	1		.972	mg/L	97	90	110			
L65902-01AS	AS	05/22/21 1:41	WI210331-13	1	U	1.022	mg/L	102	90	110			
L65902-02DUP	DUP	05/22/21 1:44			.03	.029	mg/L				3	20	RA
WG519725CCV2	CCV	05/22/21 1:51	WI210520-7	1		.959	mg/L	96	90	110			
WG519725CCB2	CCB	05/22/21 1:54				U	mg/L		-0.01	0.01			
WG519725CCV3	CCV	05/22/21 2:08	WI210520-7	1		.953	mg/L	95	90	110			
WG519725CCB3	CCB	05/22/21 2:11				U	mg/L		-0.01	0.01			
WG519725CCV4	CCV	05/22/21 2:16	WI210520-7	1		.963	mg/L	96	90	110			
WG519725CCB4	CCB	05/22/21 2:19				U	mg/L		-0.01	0.01			

Rio Grande Silver, Inc.

ACZ Project ID: **L65941**

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, ammonia

M350.1 Auto Salicylate w/gas diffusion

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520737													
WG520737ICV	ICV	06/10/21 11:01	WI210310-5	11.988		12.698	mg/L	106	90	110			
WG520737ICB	ICB	06/10/21 11:03				U	mg/L		-0.05	0.05			
WG520737LFB1	LFB	06/10/21 11:04	WI210310-4	10		10.94	mg/L	109	90	110			
L65940-02AS	AS	06/10/21 11:07	WI210310-4	10	.083	10.786	mg/L	107	90	110			
L65940-03DUP	DUP	06/10/21 11:10			.087	.087	mg/L				0	20	RA
WG520737CCV1	CCV	06/10/21 11:19	WI210310-3	10		10.834	mg/L	108	90	110			
WG520737CCB1	CCB	06/10/21 11:20				U	mg/L		-0.05	0.05			
WG520737ICV1	ICV	06/10/21 14:29	WI210310-5	11.988		12.123	mg/L	101	90	110			
WG520737ICB1	ICB	06/10/21 14:30				U	mg/L		-0.05	0.05			
WG520737CCV3	CCV	06/10/21 14:46	WI210310-3	10		9.651	mg/L	97	90	110			
WG520737CCB2	CCB	06/10/21 14:48				U	mg/L		-0.05	0.05			
WG520737CCV4	CCV	06/10/21 15:04	WI210310-3	10		10.605	mg/L	106	90	110			
WG520737CCB3	CCB	06/10/21 15:05				U	mg/L		-0.05	0.05			
WG520737LFB2	LFB	06/10/21 15:19	WI210310-4	10		10.434	mg/L	104	90	110			
WG520737CCV5	CCV	06/10/21 15:23	WI210310-3	10		9.601	mg/L	96	90	110			
WG520737CCB4	CCB	06/10/21 15:24				U	mg/L		-0.05	0.05			

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
WG520622													
WG520622ICV	ICV	06/08/21 23:11	WI210513-2	4		4.3	mg/L	108	90	110			
WG520622ICB	ICB	06/08/21 23:12				U	mg/L		-0.2	0.2			
WG520522LRB	LRB	06/08/21 23:13				U	mg/L		-0.2	0.2			
WG520522LFB	LFB	06/08/21 23:14	WI210413-6	2.5		2.54	mg/L	102	90	110			
WG520622CCV1	CCV	06/08/21 23:25	WI210513-1	2.5		2.51	mg/L	100	90	110			
WG520622CCB1	CCB	06/08/21 23:26				U	mg/L		-0.2	0.2			
WG520622CCV2	CCV	06/08/21 23:38	WI210513-1	2.5		2.48	mg/L	99	90	110			
WG520622CCB2	CCB	06/08/21 23:39				U	mg/L		-0.2	0.2			
L65947-01LFM	LFM	06/08/21 23:44	WI210413-6	2.5	U	2.49	mg/L	100	90	110			
L65947-02DUP	DUP	06/08/21 23:46			.57	.48	mg/L				17	20	RA
WG520622CCV3	CCV	06/08/21 23:49	WI210513-1	2.5		2.48	mg/L	99	90	110			
WG520622CCB3	CCB	06/08/21 23:50				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
WG519715													
WG519715LCSW1	LCSW	05/21/21 19:44	PCN61687	6		6	units	100	5.9	6.1			
WG519715LCSW4	LCSW	05/21/21 22:37	PCN61687	6		6.1	units	102	5.9	6.1			
WG519715LCSW7	LCSW	05/22/21 1:44	PCN61687	6		6.1	units	102	5.9	6.1			
L65950-02DUP	DUP	05/22/21 5:07			7.4	7.4	units				0	20	
WG519715LCSW10	LCSW	05/22/21 5:12	PCN61687	6		6.1	units	102	5.9	6.1			
WG519715LCSW13	LCSW	05/22/21 8:21	PCN61687	6		6.1	units	102	5.9	6.1			

Rio Grande Silver, Inc.

ACZ Project ID: **L65941**

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.

Phosphorus, total M365.1 - Auto Ascorbic Acid (digest)

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520624													
WG520624ICV	ICV	06/09/21 1:07	WI210603-3	.65228		.646	mg/L	99	90	110			
WG520624ICB	ICB	06/09/21 1:10				U	mg/L		-0.01	0.01			
WG520477LRB	LRB	06/09/21 1:11				U	mg/L		-0.01	0.01			
WG520477LFB	LFB	06/09/21 1:12	WI210603-2	.5		.476	mg/L	95	90	110			
L65909-01LFM	LFM	06/09/21 1:14	WI210603-2	.5	.027	.478	mg/L	90	90	110			
L65909-02DUP	DUP	06/09/21 1:17			.047	.049	mg/L				4	20	RA
WG520624CCV1	CCV	06/09/21 1:22	WI210603-4	.5		.489	mg/L	98	90	110			
WG520624CCB1	CCB	06/09/21 1:23				U	mg/L		-0.01	0.01			
L65941-03LFM	LFM	06/09/21 1:30	WI210603-2	.5	.117	.593	mg/L	95	90	110			
L65941-04DUP	DUP	06/09/21 1:32			.084	.089	mg/L				6	20	RA
WG520624CCV2	CCV	06/09/21 1:36	WI210603-4	.5		.488	mg/L	98	90	110			
WG520624CCB2	CCB	06/09/21 1:37				U	mg/L		-0.01	0.01			
WG520624CCV3	CCV	06/09/21 1:52	WI210603-4	.5		.49	mg/L	98	90	110			
WG520624CCB3	CCB	06/09/21 1:53				U	mg/L		-0.01	0.01			

Potassium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519841													
WG519841ICV	ICV	05/26/21 15:25	II210514-2	20		19.3	mg/L	97	95	105			
WG519841ICB	ICB	05/26/21 15:31				U	mg/L		-0.6	0.6			
WG519841PQV	PQV	05/26/21 15:34	II210503-4	1.004		1.09	mg/L	109	70	130			
WG519841SIC	SIC	05/26/21 15:37	II210506-2	1.004		1.12	mg/L	112	80	120			
WG519841LFB	LFB	05/26/21 15:43	II210507-4	100.0157		93.21	mg/L	93	85	115			
L65941-03AS	AS	05/26/21 15:58	II210507-4	100.0157	1.47	95.8	mg/L	94	85	115			
L65941-03ASD	ASD	05/26/21 16:01	II210507-4	100.0157	1.47	95.64	mg/L	94	85	115	0	20	
WG519841CCV1	CCV	05/26/21 16:14	II210517-1	10		9.9	mg/L	99	90	110			
WG519841CCB1	CCB	05/26/21 16:17				U	mg/L		-0.6	0.6			
WG519841CCV2	CCV	05/26/21 16:51	II210517-1	10		9.88	mg/L	99	90	110			
WG519841CCB2	CCB	05/26/21 16:54				U	mg/L		-0.6	0.6			
WG519841CCV3	CCV	05/26/21 17:13	II210517-1	10		9.71	mg/L	97	90	110			
WG519841CCB3	CCB	05/26/21 17:16				U	mg/L		-0.6	0.6			

Residue, Filterable (TDS) @180C SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519795													
WG519795PBW	PBW	05/24/21 15:55				U	mg/L		-20	20			
WG519795LCSW	LCSW	05/24/21 15:57	PCN62899	1000		994	mg/L	99	80	120			
L65941-01DUP	DUP	05/24/21 16:26			188	190	mg/L				1	10	RA
L65947-01DUP	DUP	05/24/21 16:55			562	556	mg/L				1	10	

Rio Grande Silver, Inc.

ACZ Project ID: L65941

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, Non-Filterable (TSS) @105C SM2540D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519717													
WG519717PBW	PBW	05/21/21 18:35				U	mg/L		-5	5			
WG519717LCSW	LCSW	05/21/21 18:37	PCN62899	100		94	mg/L	94	80	120			
L65972-01DUP	DUP	05/21/21 19:24			6	8	mg/L				29	10	RA
WG519839													
WG519839PBW	PBW	05/25/21 10:40				U	mg/L		-2	2			
WG519839LCSW	LCSW	05/25/21 10:42	PCN62899	100		94	mg/L	94	80	120			
L65946-03DUP	DUP	05/25/21 11:11			43	37	mg/L				15	10	RA

Selenium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519838													
WG519838ICV	ICV	05/25/21 12:04	MS210503-1	.05		.05068	mg/L	101	90	110			
WG519838ICB	ICB	05/25/21 12:05				U	mg/L		-0.00022	0.00022			
WG519838LFB	LFB	05/25/21 12:07	MS210420-3	.05		.04551	mg/L	91	85	115			
WG519838CCV1	CCV	05/25/21 12:25	MS210521-8	.25		.23948	mg/L	96	90	110			
WG519838CCB1	CCB	05/25/21 12:27				.00015	mg/L		-0.0003	0.0003			
WG519838CCV2	CCV	05/25/21 12:47	MS210521-8	.25		.23861	mg/L	95	90	110			
WG519838CCB2	CCB	05/25/21 12:49				.00015	mg/L		-0.0003	0.0003			
L65941-02AS	AS	05/25/21 12:51	MS210420-3	.05	.00016	.04974	mg/L	99	70	130			
L65941-02ASD	ASD	05/25/21 12:52	MS210420-3	.05	.00016	.0499	mg/L	99	70	130	0	20	
WG519838CCV3	CCV	05/25/21 13:00	MS210521-8	.25		.24015	mg/L	96	90	110			
WG519838CCB3	CCB	05/25/21 13:01				.00014	mg/L		-0.0003	0.0003			

Selenium, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519908													
WG519908ICV	ICV	05/26/21 10:29	MS210503-1	.05		.04934	mg/L	99	90	110			
WG519908ICB	ICB	05/26/21 10:30				U	mg/L		-0.0003	0.0003			
WG519802LRB	LRB	05/26/21 10:32				U	mg/L		-0.00022	0.00022			
WG519802LFB	LFB	05/26/21 10:34	MS210420-3	.05		.04584	mg/L	92	85	115			
WG519908CCV1	CCV	05/26/21 10:50	MS210521-8	.25		.24267	mg/L	97	90	110			
WG519908CCB1	CCB	05/26/21 10:52				.00011	mg/L		-0.0003	0.0003			
WG519908CCV2	CCV	05/26/21 11:12	MS210521-8	.25		.25226	mg/L	101	90	110			
WG519908CCB2	CCB	05/26/21 11:13				.0001	mg/L		-0.0003	0.0003			
L65941-02LFM	LFM	05/26/21 11:17	MS210420-3	.05	.00018	.0491	mg/L	98	70	130			
L65941-02LFMD	LFMD	05/26/21 11:19	MS210420-3	.05	.00018	.0466	mg/L	93	70	130	5	20	
WG519908CCV3	CCV	05/26/21 11:26	MS210521-8	.25		.24496	mg/L	98	90	110			
WG519908CCB3	CCB	05/26/21 11:28				.0001	mg/L		-0.0003	0.0003			

Rio Grande Silver, Inc.

ACZ Project ID: **L65941**

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.

Silica, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519841													
WG519841ICV	ICV	05/26/21 15:25	II210514-2	42.8		42.18	mg/L	99	95	105			
WG519841ICB	ICB	05/26/21 15:31				U	mg/L		-0.6	0.6			
WG519841PQV	PQV	05/26/21 15:34	II210503-4	1.07075		1.12	mg/L	105	70	130			
WG519841SIC	SIC	05/26/21 15:37	II210506-2	1.07075		1.11	mg/L	104	80	120			
WG519841LFB	LFB	05/26/21 15:43	II210507-4	21.415		20.82	mg/L	97	85	115			
L65941-03AS	AS	05/26/21 15:58	II210507-4	21.415	26.9	48.96	mg/L	103	85	115			
L65941-03ASD	ASD	05/26/21 16:01	II210507-4	21.415	26.9	51.91	mg/L	117	85	115	6	20	MA
WG519841CCV1	CCV	05/26/21 16:14	II210517-1	21.4		21.6	mg/L	101	90	110			
WG519841CCB1	CCB	05/26/21 16:17				U	mg/L		-0.6	0.6			
WG519841CCV2	CCV	05/26/21 16:51	II210517-1	21.4		21.56	mg/L	101	90	110			
WG519841CCB2	CCB	05/26/21 16:54				U	mg/L		-0.6	0.6			
WG519841CCV3	CCV	05/26/21 17:13	II210517-1	21.4		21.1	mg/L	99	90	110			
WG519841CCB3	CCB	05/26/21 17:16				U	mg/L		-0.6	0.6			

Silica, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519910													
WG519910ICV	ICV	05/26/21 11:00	II210514-2	42.8		41.82	mg/L	98	95	105			
WG519910ICB	ICB	05/26/21 11:07				U	mg/L		-0.6	0.6			
WG519910PQV	PQV	05/26/21 11:10	II210503-4	1.07075		1.08	mg/L	101	70	130			
WG519910SIC	SIC	05/26/21 11:13	II210506-2	1.07075		1.11	mg/L	104	80	120			
WG519816LRB	LRB	05/26/21 11:20				U	mg/L		-0.44	0.44			
WG519816LFB	LFB	05/26/21 11:23	II210507-4	21.415		20.63	mg/L	96	85	115			
WG519910CCV1	CCV	05/26/21 11:52	II210517-1	21.4		20.9	mg/L	98	90	110			
WG519910CCB1	CCB	05/26/21 11:55				U	mg/L		-0.6	0.6			
WG519910CCV2	CCV	05/26/21 12:31	II210517-1	21.4		20.55	mg/L	96	90	110			
WG519910CCB2	CCB	05/26/21 12:34				U	mg/L		-0.6	0.6			
L65941-04LFM	LFM	05/26/21 12:44	II210507-4	21.415	38	58.45	mg/L	95	70	130			
L65941-04LFMD	LFMD	05/26/21 12:47	II210507-4	21.415	38	54.52	mg/L	77	70	130	7	20	
WG519910CCV3	CCV	05/26/21 12:57	II210517-1	21.4		20.41	mg/L	95	90	110			
WG519910CCB3	CCB	05/26/21 13:00				U	mg/L		-0.6	0.6			

Silver, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519838													
WG519838ICV	ICV	05/25/21 12:04	MS210503-1	.02		.02002	mg/L	100	90	110			
WG519838ICB	ICB	05/25/21 12:05				U	mg/L		-0.00022	0.00022			
WG519838LFB	LFB	05/25/21 12:07	MS210420-3	.01002		.00923	mg/L	92	85	115			
WG519838CCV1	CCV	05/25/21 12:25	MS210521-8	.02505		.02518	mg/L	101	90	110			
WG519838CCB1	CCB	05/25/21 12:27				U	mg/L		-0.0003	0.0003			
WG519838CCV2	CCV	05/25/21 12:47	MS210521-8	.02505		.02487	mg/L	99	90	110			
WG519838CCB2	CCB	05/25/21 12:49				U	mg/L		-0.0003	0.0003			
L65941-02AS	AS	05/25/21 12:51	MS210420-3	.01002	U	.00899	mg/L	90	70	130			
L65941-02ASD	ASD	05/25/21 12:52	MS210420-3	.01002	U	.00864	mg/L	86	70	130	4	20	
WG519838CCV3	CCV	05/25/21 13:00	MS210521-8	.02505		.02467	mg/L	98	90	110			
WG519838CCB3	CCB	05/25/21 13:01				U	mg/L		-0.0003	0.0003			

Rio Grande Silver, Inc.

ACZ Project ID: **L65941**

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, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519908													
WG519908ICV	ICV	05/26/21 10:29	MS210503-1	.02		.01876	mg/L	94	90	110			
WG519908ICB	ICB	05/26/21 10:30				U	mg/L		-0.0003	0.0003			
WG519802LRB	LRB	05/26/21 10:32				U	mg/L		-0.00022	0.00022			
WG519802LFB	LFB	05/26/21 10:34	MS210420-3	.01002		.00904	mg/L	90	85	115			
WG519908CCV1	CCV	05/26/21 10:50	MS210521-8	.02505		.02487	mg/L	99	90	110			
WG519908CCB1	CCB	05/26/21 10:52				U	mg/L		-0.0003	0.0003			
WG519908CCV2	CCV	05/26/21 11:12	MS210521-8	.02505		.02531	mg/L	101	90	110			
WG519908CCB2	CCB	05/26/21 11:13				U	mg/L		-0.0003	0.0003			
L65941-02LFM	LFM	05/26/21 11:17	MS210420-3	.01002	.00011	.00934	mg/L	92	70	130			
L65941-02LFMD	LFMD	05/26/21 11:19	MS210420-3	.01002	.00011	.00932	mg/L	92	70	130	0	20	
WG519908CCV3	CCV	05/26/21 11:26	MS210521-8	.02505		.02457	mg/L	98	90	110			
WG519908CCB3	CCB	05/26/21 11:28				U	mg/L		-0.0003	0.0003			

Sodium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519841													
WG519841ICV	ICV	05/26/21 15:25	II210514-2	100		96.21	mg/L	96	95	105			
WG519841ICB	ICB	05/26/21 15:31				U	mg/L		-0.6	0.6			
WG519841PQV	PQV	05/26/21 15:34	II210503-4	.998		.95	mg/L	95	70	130			
WG519841SIC	SIC	05/26/21 15:37	II210506-2	.998		1.02	mg/L	102	80	120			
WG519841LFB	LFB	05/26/21 15:43	II210507-4	100.0605		92.13	mg/L	92	85	115			
L65941-03AS	AS	05/26/21 15:58	II210507-4	100.0605	2.61	96.71	mg/L	94	85	115			
L65941-03ASD	ASD	05/26/21 16:01	II210507-4	100.0605	2.61	95.66	mg/L	93	85	115	1	20	
WG519841CCV1	CCV	05/26/21 16:14	II210517-1	50		49.27	mg/L	99	90	110			
WG519841CCB1	CCB	05/26/21 16:17				U	mg/L		-0.6	0.6			
WG519841CCV2	CCV	05/26/21 16:51	II210517-1	50		48.8	mg/L	98	90	110			
WG519841CCB2	CCB	05/26/21 16:54				U	mg/L		-0.6	0.6			
WG519841CCV3	CCV	05/26/21 17:13	II210517-1	50		48.32	mg/L	97	90	110			
WG519841CCB3	CCB	05/26/21 17:16				U	mg/L		-0.6	0.6			

Rio Grande Silver, Inc.

ACZ Project ID: **L65941**

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.

Sulfate

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519666													
WG519666ICV	ICV	05/20/21 17:50	WI210520-6	51.15		51.12	mg/L	100	90	110			
WG519666ICB	ICB	05/20/21 18:08				U	mg/L		-0.4	0.4			
WG519870													
WG519870CCV1	CCV	05/26/21 12:07	WI210520-2	49.95		52.99	mg/L	106	90	110			
WG519870CCB1	CCB	05/26/21 12:25				U	mg/L		-0.4	0.4			
WG519870PQV	PQV	05/26/21 12:43	WI210520-1	2		1.97	mg/L	99	70	130			
WG519870LFB1	LFB	05/26/21 13:00	WI210329-1	29.97		32.37	mg/L	108	90	110			
WG519870CCV2	CCV	05/26/21 15:42	WI210520-2	49.95		52.99	mg/L	106	90	110			
WG519870CCB2	CCB	05/26/21 16:00				U	mg/L		-0.4	0.4			
L65911-05AS	AS	05/26/21 18:23	WI210329-1	59.94	63.2	128.65	mg/L	109	90	110			
WG519870CCV3	CCV	05/26/21 19:17	WI210520-2	49.95		53.08	mg/L	106	90	110			
WG519870CCB3	CCB	05/26/21 19:35				U	mg/L		-0.4	0.4			
WG519870LFB2	LFB	05/26/21 21:40	WI210329-1	29.97		32.09	mg/L	107	90	110			
WG519870CCV4	CCV	05/26/21 22:52	WI210520-2	49.95		53.26	mg/L	107	90	110			
WG519870CCB4	CCB	05/26/21 23:10				U	mg/L		-0.4	0.4			
WG519870CCV5	CCV	05/27/21 2:09	WI210520-2	49.95		53.18	mg/L	106	90	110			
WG519870CCB5	CCB	05/27/21 2:27				U	mg/L		-0.4	0.4			
WG519870CCV6	CCV	05/27/21 18:49	WI210520-2	49.95		53.11	mg/L	106	90	110			
WG519870CCB6	CCB	05/27/21 19:07				U	mg/L		-0.4	0.4			
WG519870PQV1	PQV	05/27/21 19:25	WI210520-1	2		2	mg/L	100	70	130			
L65911-04DUP	DUP	05/27/21 21:31			114	114.6	mg/L				1	20	
WG519870CCV7	CCV	05/27/21 22:24	WI210520-2	49.95		52.91	mg/L	106	90	110			
WG519870CCB7	CCB	05/27/21 22:42				U	mg/L		-0.4	0.4			
WG519870CCV8	CCV	05/27/21 23:18	WI210520-2	49.95		53.25	mg/L	107	90	110			
WG519870CCB8	CCB	05/27/21 23:36				U	mg/L		-0.4	0.4			

Sulfide as S

SM4500S2-D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519775													
WG519775ICV	ICV	05/24/21 11:47	WC210524-3	.35734		.37	mg/L	104	90	110			
WG519775ICB	ICB	05/24/21 11:52				U	mg/L		-0.05	0.05			
WG519775LFB1	LFB	05/24/21 11:57	WC210524-6	.22044		.253	mg/L	115	80	120			
WG519775CCV1	CCV	05/24/21 12:52	WC210524-4	.16533		.166	mg/L	100	90	110			
WG519775CCB1	CCB	05/24/21 12:57				U	mg/L		-0.05	0.05			
WG519775CCV2	CCV	05/24/21 13:57	WC210524-4	.16533		.166	mg/L	100	90	110			
WG519775CCB2	CCB	05/24/21 14:02				U	mg/L		-0.05	0.05			
L65974-01AS	AS	05/24/21 14:24	WC210524-6	.22044	U	.257	mg/L	117	75	125			
L65974-01ASD	ASD	05/24/21 14:29	WC210524-6	.22044	U	.265	mg/L	120	75	125	3	20	
WG519775LFB2	LFB	05/24/21 14:34	WC210524-6	.22044		.247	mg/L	112	80	120			
WG519775CCV3	CCV	05/24/21 14:56	WC210524-4	.16533		.166	mg/L	100	90	110			
WG519775CCB3	CCB	05/24/21 15:02				U	mg/L		-0.05	0.05			

Rio Grande Silver, Inc.

ACZ Project ID: **L65941**

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.

Uranium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519838													
WG519838ICV	ICV	05/25/21 12:04	MS210503-1	.05		.05113	mg/L	102	90	110			
WG519838ICB	ICB	05/25/21 12:05				U	mg/L		-0.00022	0.00022			
WG519838LFB	LFB	05/25/21 12:07	MS210420-3	.05		.04512	mg/L	90	85	115			
WG519838CCV1	CCV	05/25/21 12:25	MS210521-8	.1		.09389	mg/L	94	90	110			
WG519838CCB1	CCB	05/25/21 12:27				U	mg/L		-0.0003	0.0003			
WG519838CCV2	CCV	05/25/21 12:47	MS210521-8	.1		.09364	mg/L	94	90	110			
WG519838CCB2	CCB	05/25/21 12:49				U	mg/L		-0.0003	0.0003			
L65941-02AS	AS	05/25/21 12:51	MS210420-3	.05	U	.04596	mg/L	92	70	130			
L65941-02ASD	ASD	05/25/21 12:52	MS210420-3	.05	U	.04457	mg/L	89	70	130	3	20	
WG519838CCV3	CCV	05/25/21 13:00	MS210521-8	.1		.09658	mg/L	97	90	110			
WG519838CCB3	CCB	05/25/21 13:01				U	mg/L		-0.0003	0.0003			

Uranium, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519908													
WG519908ICV	ICV	05/26/21 10:29	MS210503-1	.05		.05019	mg/L	100	90	110			
WG519908ICB	ICB	05/26/21 10:30				U	mg/L		-0.0003	0.0003			
WG519802LRB	LRB	05/26/21 10:32				U	mg/L		-0.00022	0.00022			
WG519802LFB	LFB	05/26/21 10:34	MS210420-3	.05		.04517	mg/L	90	85	115			
WG519908CCV1	CCV	05/26/21 10:50	MS210521-8	.1		.09708	mg/L	97	90	110			
WG519908CCB1	CCB	05/26/21 10:52				U	mg/L		-0.0003	0.0003			
WG519908CCV2	CCV	05/26/21 11:12	MS210521-8	.1		.09982	mg/L	100	90	110			
WG519908CCB2	CCB	05/26/21 11:13				U	mg/L		-0.0003	0.0003			
L65941-02LFM	LFM	05/26/21 11:17	MS210420-3	.05	.00011	.0484	mg/L	97	70	130			
L65941-02LFMD	LFMD	05/26/21 11:19	MS210420-3	.05	.00011	.04824	mg/L	96	70	130	0	20	
WG519908CCV3	CCV	05/26/21 11:26	MS210521-8	.1		.09798	mg/L	98	90	110			
WG519908CCB3	CCB	05/26/21 11:28				U	mg/L		-0.0003	0.0003			

Zinc, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519838													
WG519838ICV	ICV	05/25/21 12:04	MS210503-1	.05		.052	mg/L	104	90	110			
WG519838ICB	ICB	05/25/21 12:05				U	mg/L		-0.0132	0.0132			
WG519838LFB	LFB	05/25/21 12:07	MS210420-3	.050075		.0489	mg/L	98	85	115			
WG519838CCV1	CCV	05/25/21 12:25	MS210521-8	.50075		.4745	mg/L	95	90	110			
WG519838CCB1	CCB	05/25/21 12:27				U	mg/L		-0.018	0.018			
WG519838CCV2	CCV	05/25/21 12:47	MS210521-8	.50075		.4699	mg/L	94	90	110			
WG519838CCB2	CCB	05/25/21 12:49				U	mg/L		-0.018	0.018			
L65941-02AS	AS	05/25/21 12:51	MS210420-3	.050075	1.66	1.7373	mg/L	154	70	130			M3
L65941-02ASD	ASD	05/25/21 12:52	MS210420-3	.050075	1.66	1.7105	mg/L	101	70	130	2	20	
WG519838CCV3	CCV	05/25/21 13:00	MS210521-8	.50075		.4672	mg/L	93	90	110			
WG519838CCB3	CCB	05/25/21 13:01				U	mg/L		-0.018	0.018			

Rio Grande Silver, Inc.

ACZ Project ID: **L65941**

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
WG519908													
WG519908ICV	ICV	05/26/21 10:29	MS210503-1	.05		.049	mg/L	98	90	110			
WG519908ICB	ICB	05/26/21 10:30				U	mg/L		-0.018	0.018			
WG519802LRB	LRB	05/26/21 10:32				U	mg/L		-0.0132	0.0132			
WG519802LFB	LFB	05/26/21 10:34	MS210420-3	.050075		.0463	mg/L	92	85	115			
WG519908CCV1	CCV	05/26/21 10:50	MS210521-8	.50075		.4832	mg/L	96	90	110			
WG519908CCB1	CCB	05/26/21 10:52				U	mg/L		-0.018	0.018			
WG519908CCV2	CCV	05/26/21 11:12	MS210521-8	.50075		.5003	mg/L	100	90	110			
WG519908CCB2	CCB	05/26/21 11:13				U	mg/L		-0.018	0.018			
L65941-02LFM	LFM	05/26/21 11:17	MS210420-3	.050075	1.64	1.6729	mg/L	66	70	130			M3
L65941-02LFMD	LFMD	05/26/21 11:19	MS210420-3	.050075	1.64	1.6434	mg/L	7	70	130	2	20	M3
WG519908CCV3	CCV	05/26/21 11:26	MS210521-8	.50075		.4813	mg/L	96	90	110			
WG519908CCB3	CCB	05/26/21 11:28				U	mg/L		-0.018	0.018			

Rio Grande Silver, Inc.

ACZ Project ID: **L65941**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L65941-01	WG520003	Aluminum, dissolved	M200.7 ICP	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG519910	Aluminum, 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.
	WG519683	Carbon, dissolved organic (DOC)	SM5310B	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).
	WG519914	Chemical Oxygen Demand	M410.4	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).
	WG519870	Chloride	M300.0 - Ion Chromatography	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			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).
	WG519841	Iron, dissolved	M200.7 ICP	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG519725	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
		Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353.2 - Automated Cadmium Reduction	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).
	WG520737	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).
	WG520622	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).
	WG520624	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	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).
	WG519795	Residue, Filterable (TDS) @180C	SM2540C	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).
	WG519717	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
	WG519841	Silica, dissolved	M200.7 ICP	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG519910	Silica, total recoverable	M200.7 ICP	ZS	Digestion procedures have the potential to trigger silica polymerization and precipitation, leading to low biased results. Silica chemistry is complex and polymerization kinetics are unpredictable. Dissolved and/or acid soluble silica analyses may provide more accurate measurements.
	WG520610	Total Recoverable Digestion	M200.2 ICP-MS	DJ	Sample dilution required due to insufficient sample.
	WG519838	Zinc, 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.
	WG519908	Zinc, 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.

Rio Grande Silver, Inc.

ACZ Project ID: **L65941**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L65941-02	WG520003	Aluminum, dissolved	M200.7 ICP	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG519910	Aluminum, 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.
	WG519683	Carbon, dissolved organic (DOC)	SM5310B	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).
	WG519914	Chemical Oxygen Demand	M410.4	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).
	WG519870	Chloride	M300.0 - Ion Chromatography	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			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).
	WG519841	Iron, dissolved	M200.7 ICP	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG520065	Mercury, total	M1631E, Atomic Fluorescence	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG519725	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
		Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353.2 - Automated Cadmium Reduction	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).
	WG520737	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).
	WG520622	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).
	WG520624	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	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).
	WG519717	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
	WG519841	Silica, dissolved	M200.7 ICP	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG519910	Silica, total recoverable	M200.7 ICP	ZS	Digestion procedures have the potential to trigger silica polymerization and precipitation, leading to low biased results. Silica chemistry is complex and polymerization kinetics are unpredictable. Dissolved and/or acid soluble silica analyses may provide more accurate measurements.
	WG519838	Zinc, 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.
	WG519908	Zinc, 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.

Rio Grande Silver, Inc.

ACZ Project ID: **L65941**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L65941-03	WG520003	Aluminum, dissolved	M200.7 ICP	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG519910	Aluminum, 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.
	WG519683	Carbon, dissolved organic (DOC)	SM5310B	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).
	WG519914	Chemical Oxygen Demand	M410.4	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).
	WG519870	Chloride	M300.0 - Ion Chromatography	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			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).
	WG519841	Iron, dissolved	M200.7 ICP	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG520065	Mercury, total	M1631E, Atomic Fluorescence	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG519725	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
		Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353.2 - Automated Cadmium Reduction	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).
	WG520737	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).
	WG520622	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).
	WG520624	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	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).
	WG519717	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
	WG519841	Silica, dissolved	M200.7 ICP	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG519910	Silica, total recoverable	M200.7 ICP	ZS	Digestion procedures have the potential to trigger silica polymerization and precipitation, leading to low biased results. Silica chemistry is complex and polymerization kinetics are unpredictable. Dissolved and/or acid soluble silica analyses may provide more accurate measurements.
	WG520610	Total Recoverable Digestion	M200.2 ICP-MS	DJ	Sample dilution required due to insufficient sample.
	WG519838	Zinc, 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.
	WG519908	Zinc, 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.

Rio Grande Silver, Inc.

ACZ Project ID: **L65941**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L65941-04	WG520003	Aluminum, dissolved	M200.7 ICP	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG519910	Aluminum, 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.
	WG519683	Carbon, dissolved organic (DOC)	SM5310B	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).
	WG519914	Chemical Oxygen Demand	M410.4	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).
	WG519870	Chloride	M300.0 - Ion Chromatography	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			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).
	WG519841	Iron, dissolved	M200.7 ICP	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG520065	Mercury, total	M1631E, Atomic Fluorescence	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG519725	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).
		Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).
			M353.2 - Automated Cadmium Reduction	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).
	WG520737	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).
	WG520622	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).
	WG520624	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	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).
	WG519717	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
	WG519841	Silica, dissolved	M200.7 ICP	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG519910	Silica, total recoverable	M200.7 ICP	ZS	Digestion procedures have the potential to trigger silica polymerization and precipitation, leading to low biased results. Silica chemistry is complex and polymerization kinetics are unpredictable. Dissolved and/or acid soluble silica analyses may provide more accurate measurements.
	WG519775	Sulfide as S	SM4500S2-D	D1	Sample required dilution due to matrix.
	WG520610	Total Recoverable Digestion	M200.2 ICP-MS	DJ	Sample dilution required due to insufficient sample.
	WG519838	Zinc, 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.
	WG519908	Zinc, 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.

Rio Grande Silver, Inc.

ACZ Project ID: **L65941**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L65941-05	WG520003	Aluminum, dissolved	M200.7 ICP	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG519910	Aluminum, 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.
	WG519683	Carbon, dissolved organic (DOC)	SM5310B	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).
	WG519914	Chemical Oxygen Demand	M410.4	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).
	WG519870	Chloride	M300.0 - Ion Chromatography	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			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).
	WG519841	Iron, dissolved	M200.7 ICP	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG520065	Mercury, total	M1631E, Atomic Fluorescence	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG519725	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
		Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353.2 - Automated Cadmium Reduction	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).
	WG520737	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).
	WG520622	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).
	WG520624	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	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).
	WG519839	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
	WG519841	Silica, dissolved	M200.7 ICP	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG519910	Silica, total recoverable	M200.7 ICP	ZS	Digestion procedures have the potential to trigger silica polymerization and precipitation, leading to low biased results. Silica chemistry is complex and polymerization kinetics are unpredictable. Dissolved and/or acid soluble silica analyses may provide more accurate measurements.
	WG520610	Total Recoverable Digestion	M200.2 ICP-MS	DJ	Sample dilution required due to insufficient sample.
	WG519838	Zinc, 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.
	WG519908	Zinc, 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.
L65941-06	WG520065	Mercury, total	M1631E, Atomic Fluorescence	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.

Rio Grande Silver, Inc.

Project ID: BO44726

Sample ID: WG-L

ACZ Sample ID: **L65941-01**

Date Sampled: 05/18/21 10:30

Date Received: 05/20/21

Sample Matrix: Surface Water

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

Extract Method:

Workgroup: WG519815

Analyst: TTG

Extract Date:

Analysis Date: 05/25/21 16:30

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
Oil and Grease		2.2	B	0.935	*	mg/L	1.9	9.4

Rio Grande Silver, Inc.

Project ID: BO44726

Sample ID: WG-9360-B

ACZ Sample ID: **L65941-02**

Date Sampled: 05/18/21 10:50

Date Received: 05/20/21

Sample Matrix: Surface Water

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

Extract Method:

Workgroup: WG519815

Analyst: TTG

Extract Date:

Analysis Date: 05/25/21 17:00

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
Oil and Grease		<1.9	U	0.935	*	mg/L	1.9	9.4

Rio Grande Silver, Inc.

Project ID: BO44726

Sample ID: WG-9700-W

ACZ Sample ID: **L65941-03**

Date Sampled: 05/18/21 11:35

Date Received: 05/20/21

Sample Matrix: Surface Water

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

Extract Method:

Workgroup: WG519815

Analyst: TTG

Extract Date:

Analysis Date: 05/25/21 17:30

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
Oil and Grease		2	B	0.935	*	mg/L	1.9	9.4

Rio Grande Silver, Inc.

Project ID: BO44726

Sample ID: WG-U

ACZ Sample ID: **L65941-04**

Date Sampled: 05/18/21 12:05

Date Received: 05/20/21

Sample Matrix: Surface Water

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

Extract Method:

Workgroup: WG519815

Analyst: TTG

Extract Date:

Analysis Date: 05/25/21 18:00

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
Oil and Grease		4.3	B	0.935	*	mg/L	1.9	9.4

Rio Grande Silver, Inc.

Project ID: BO44726

Sample ID: WG-D

ACZ Sample ID: **L65941-05**

Date Sampled: 05/18/21 10:35

Date Received: 05/20/21

Sample Matrix: Surface Water

Oil & Grease, Total Recoverable

Analysis Method: **1664A/B - Gravimetric**

Extract Method:

Workgroup: WG519815

Analyst: TTG

Extract Date:

Analysis Date: 05/25/21 18:30

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
Oil and Grease		2.3	B	0.935	*	mg/L	1.9	9.4

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: **L65941**

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

WG519815

MS		Sample ID: L65796-01MS		PCN/SCN: OP210513-2				Analyzed: 05/25/21 11:30			
Compound	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual	
OIL AND GREASE	40	U	28.9	mg/L	72.0	78	114				R1

LCSW		Sample ID: WG519815LCSW		PCN/SCN: OP210513-2				Analyzed: 05/25/21 19:30			
Compound	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual	
OIL AND GREASE	40		37.6	mg/L	94.0	78	114				

LCSWD		Sample ID: WG519815LCSWD		PCN/SCN: OP210513-2				Analyzed: 05/25/21 20:00			
Compound	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual	
OIL AND GREASE	40		29	mg/L	73.0	78	114	26	18		R1

PBW		Sample ID: WG519815PBW						Analyzed: 05/25/21 9:00			
Compound	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual	
OIL AND GREASE			U	mg/L							

ACZ Project ID: **L65941**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L65941-01	WG519815	Oil and Grease	1664A/B - Gravimetric	R1	RPD exceeded the method or laboratory acceptance limit. See Case Narrative.
L65941-02	WG519815	Oil and Grease	1664A/B - Gravimetric	R1	RPD exceeded the method or laboratory acceptance limit. See Case Narrative.
L65941-03	WG519815	Oil and Grease	1664A/B - Gravimetric	R1	RPD exceeded the method or laboratory acceptance limit. See Case Narrative.
L65941-04	WG519815	Oil and Grease	1664A/B - Gravimetric	R1	RPD exceeded the method or laboratory acceptance limit. See Case Narrative.
L65941-05	WG519815	Oil and Grease	1664A/B - Gravimetric	R1	RPD exceeded the method or laboratory acceptance limit. See Case Narrative.

Rio Grande Silver, Inc.

ACZ Project ID: **L65941**

No certification qualifiers associated with this analysis

Rio Grande Silver, Inc.
BO44726

ACZ Project ID: L65941
Date Received: 05/20/2021 11:51
Received By:
Date Printed: 5/21/2021

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? L65941-01 Container B2404970 (HG-1631): This container was received broken.	☐	☒	☐
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? Some parameters were received past 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?
7072	4.5	<=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.
BO44726

ACZ Project ID: L65941

Date Received: 05/20/2021 11:51

Received By:

Date Printed: 5/21/2021

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.**

L65941

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: Janet Shangraw

Company: JNS, Inc.

E-mail: jshangraw@comcast.net

Telephone: 303-972-8596

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: 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 mdt

*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 #:

PO#: BO44726

Reporting state for compliance testing:

Check box if samples include NRC licensed material?

☐

SAMPLE IDENTIFICATION

DATE:TIME

Matrix

of Containers

WG-L	5/18/21: 10:30 am	SW	9	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
WG-9360-B	5/18/21: 10:50 am	SW	9	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
WG-9700-W	5/18/21: 11:35 am	SW	9	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
WG-U	5/18/21: 12:05 pm	SW	9	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
WG-D	5/18/21: 10:35 am	SW	9	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Trip Blank	5/18/21: 10:30 am	SW	1	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
(Mercury using 1631				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
samples not filtered or				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
preserved)				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

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

REMARKS

Field Equip Blank 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 report to rmccclure@hecla-mining.com.
We did not add acid to the Hg samples.

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

RELINQUISHED BY:

DATE:TIME

RECEIVED BY:

DATE:TIME

Randy McClure

5/18 1:15 pm

[Signature]

5/20/21 11:51