ACZ Laboratories, Inc.
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Analytical Report

May 21, 2020

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.
112 E. 12th St.
Creede, CO 81130

Project ID: BO44726
ACZ Project ID: L58847

Randy McClure:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on May 07, 2020. This project has been assigned to ACZ's project number, L58847. 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 L58847. 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 June 20, 2020. If the samples are determined to be hazardous, additional charges apply for disposal (typically $11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

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

Sue Webber has reviewed and approved this report.

Rio Grande Silver, Inc.
Project ID: BO44726
Sample ID: WG-L

ACZ Sample ID: ***L58847-01***
Date Sampled: *05/05/20 10:00*
Date Received: *05/07/20*
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								05/12/20 12:34	mss2
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								05/12/20 12:10	rbt
Total Recoverable Digestion	M200.2 ICP-MS								05/09/20 13:48	mfm/enb
Total Recoverable Digestion	M200.2 ICP								05/12/20 13:34	kja

Rio Grande Silver, Inc.
Project ID: BO44726
Sample ID: WG-L

ACZ Sample ID: ***L58847-01***
Date Sampled: *05/05/20 10:00*
Date Received: *05/07/20*
Sample Matrix: *Surface Water*

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	0.22	B	*	mg/L	0.05	0.3	05/13/20 12:11	kja
Aluminum, total recoverable	M200.7 ICP	1	1.44			mg/L	0.05	0.3	05/13/20 10:32	kja
Arsenic, dissolved	M200.8 ICP-MS	1	0.0173			mg/L	0.0002	0.001	05/12/20 13:53	mfm
Arsenic, total recoverable	M200.8 ICP-MS	1	0.0218			mg/L	0.0002	0.001	05/11/20 17:00	mfm
Boron, dissolved	M200.7 ICP	1		U		mg/L	0.02	0.1	05/13/20 12:11	kja
Boron, total recoverable	M200.7 ICP	1		U		mg/L	0.02	0.1	05/13/20 10:32	kja
Cadmium, dissolved	M200.8 ICP-MS	1	0.00502			mg/L	0.00005	0.0003	05/12/20 13:53	mfm
Cadmium, total recoverable	M200.8 ICP-MS	1	0.00591			mg/L	0.00005	0.0003	05/11/20 17:00	mfm
Calcium, dissolved	M200.7 ICP	1	21.0			mg/L	0.1	0.5	05/13/20 12:11	kja
Chromium, total recoverable	M200.8 ICP-MS	1	0.0006	B		mg/L	0.0005	0.002	05/11/20 17:00	mfm
Cobalt, dissolved	M200.7 ICP	1		U		mg/L	0.01	0.05	05/13/20 12:11	kja
Cobalt, total recoverable	M200.7 ICP	1		U		mg/L	0.01	0.05	05/13/20 10:32	kja
Copper, dissolved	M200.8 ICP-MS	1	0.0042			mg/L	0.0008	0.002	05/13/20 16:32	mfm
Copper, total recoverable	M200.8 ICP-MS	1	0.005			mg/L	0.0008	0.002	05/11/20 17:00	mfm
Iron, dissolved	M200.7 ICP	1	0.14	B		mg/L	0.06	0.2	05/13/20 12:11	kja
Iron, total recoverable	M200.7 ICP	1	0.74			mg/L	0.06	0.2	05/13/20 10:32	kja
Lead, dissolved	M200.8 ICP-MS	1	0.0012			mg/L	0.0001	0.0005	05/12/20 13:53	mfm
Lead, total recoverable	M200.8 ICP-MS	1	0.0021			mg/L	0.0001	0.0005	05/11/20 17:00	mfm
Magnesium, dissolved	M200.7 ICP	1	2.1			mg/L	0.2	1	05/13/20 12:11	kja
Manganese, dissolved	M200.7 ICP	1		U		mg/L	0.01	0.05	05/13/20 12:11	kja
Manganese, total recoverable	M200.7 ICP	1		U		mg/L	0.01	0.05	05/13/20 10:32	kja
Mercury, total	M1631E, Atomic Fluorescence	1	5.6		*	ng/L	0.3	1	05/12/20 6:59	enb
Nickel, dissolved	M200.7 ICP	1		U		mg/L	0.008	0.04	05/13/20 12:11	kja
Nickel, total recoverable	M200.7 ICP	1		U		mg/L	0.008	0.04	05/13/20 10:32	kja
Potassium, dissolved	M200.7 ICP	1	1.8			mg/L	0.2	1	05/13/20 12:11	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.0001	B		mg/L	0.0001	0.0003	05/12/20 13:53	mfm
Selenium, total recoverable	M200.8 ICP-MS	1	0.0001	B		mg/L	0.0001	0.0003	05/11/20 17:00	mfm
Silica, dissolved	M200.7 ICP	1	24.6			mg/L	0.2	1	05/13/20 12:11	kja
Silica, total recoverable	M200.7 ICP	1	29.3		*	mg/L	0.2	1	05/13/20 10:32	kja
Silver, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	05/12/20 13:53	mfm
Silver, total recoverable	M200.8 ICP-MS	1	0.0001	B		mg/L	0.0001	0.0005	05/11/20 17:00	mfm
Sodium, dissolved	M200.7 ICP	1	3.6			mg/L	0.2	1	05/13/20 12:11	kja
Uranium, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	05/12/20 13:53	mfm
Uranium, total recoverable	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	05/11/20 17:00	mfm
Zinc, dissolved	M200.8 ICP-MS	1	1.2			mg/L	0.006	0.02	05/12/20 13:53	mfm

Rio Grande Silver, Inc.
Project ID: BO44726
Sample ID: WG-L

ACZ Sample ID: ***L58847-01***
Date Sampled: *05/05/20 10:00*
Date Received: *05/07/20*
Sample Matrix: *Surface Water*

Zinc, total recoverable	M200.8 ICP-MS	1	1.45			mg/L	0.006	0.02	05/11/20 17:00	mfm

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	11.5	B		mg/L	2	20	05/08/20 0:00	jck
Carbonate as CaCO3		1		U		mg/L	2	20	05/08/20 0:00	jck
Hydroxide as CaCO3		1		U		mg/L	2	20	05/08/20 0:00	jck
Total Alkalinity		1	11.5	B		mg/L	2	20	05/08/20 0:00	jck
Carbon, dissolved organic (DOC)	SM5310B	1	3.8	B	*	mg/L	1	5	05/12/20 21:13	ttg
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-6.3			%			05/21/20 0:00	calc
Sum of Anions			1.7			meq/L			05/21/20 0:00	calc
Sum of Cations			1.5			meq/L			05/21/20 0:00	calc
Chemical Oxygen Demand	M410.4	1	10	B	*	mg/L	10	20	05/14/20 12:28	mlh/eep
Chloride	M300.0 - Ion Chromatography	1	1.26	B		mg/L	0.4	2	05/13/20 20:55	mss2
Fluoride	SM4500F-C	1	0.3	B		mg/L	0.1	0.4	05/13/20 19:38	eep
Hardness as CaCO3 (dissolved)	SM2340B - Calculation		61			mg/L	0.2	5	05/21/20 0:00	calc
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2		0.93	H		mg/L	0.02	0.1	05/21/20 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.93	H	*	mg/L	0.02	0.1	05/08/20 22:09	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1		UH	*	mg/L	0.01	0.05	05/08/20 22:09	pjb
Nitrogen, ammonia	M350.1 Auto Salicylate w/gas diffusion	1		U	*	mg/L	0.05	0.2	05/16/20 12:45	wtc
Nitrogen, organic	M351.2 & M350.1 - TKN minus NH3		0.3	B		mg/L	0.2	0.5	05/21/20 0:00	calc
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	1	0.3	B		mg/L	0.2	0.5	05/13/20 0:08	pjb
pH (lab)	SM4500H+ B									
pH		1	7.3	H		units	0.1	0.1	05/08/20 0:00	jck
pH measured at		1	20.9			C	0.1	0.1	05/08/20 0:00	jck
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	0.08			mg/L	0.01	0.05	05/12/20 15:45	rbt
Residue, Filterable (TDS) @180C	SM2540C	1	178		*	mg/L	20	40	05/07/20 21:05	jck
Residue, Non-Filterable (TSS) @105C	SM2540D	1		U	*	mg/L	5	20	05/07/20 20:14	jck
Sulfate	M300.0 - Ion Chromatography	1	65.1			mg/L	0.4	2	05/13/20 20:55	mss2
Sulfide as S	SM4500S2-D	1		U	*	mg/L	0.02	0.1	05/12/20 11:55	mlh

Rio Grande Silver, Inc.
Project ID: BO44726
Sample ID: WG-9360-B

ACZ Sample ID: ***L58847-02***
Date Sampled: *05/05/20 10:40*
Date Received: *05/07/20*
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								05/12/20 12:47	mss2
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								05/12/20 12:20	rbt
Total Recoverable Digestion	M200.2 ICP-MS								05/09/20 13:59	mfm/enb
Total Recoverable Digestion	M200.2 ICP								05/12/20 13:47	kja

Rio Grande Silver, Inc.
Project ID: BO44726
Sample ID: WG-9360-B

ACZ Sample ID: ***L58847-02***
Date Sampled: *05/05/20 10:40*
Date Received: *05/07/20*
Sample Matrix: *Surface Water*

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	0.33		*	mg/L	0.05	0.3	05/13/20 12:27	kja
Aluminum, total recoverable	M200.7 ICP	1	2.74			mg/L	0.05	0.3	05/13/20 10:35	kja
Arsenic, dissolved	M200.8 ICP-MS	1	0.0192			mg/L	0.0002	0.001	05/12/20 13:55	mfm
Arsenic, total recoverable	M200.8 ICP-MS	1	0.0296			mg/L	0.0002	0.001	05/11/20 17:01	mfm
Boron, dissolved	M200.7 ICP	1		U		mg/L	0.02	0.1	05/13/20 12:27	kja
Boron, total recoverable	M200.7 ICP	1		U		mg/L	0.02	0.1	05/13/20 10:35	kja
Cadmium, dissolved	M200.8 ICP-MS	1	0.0117			mg/L	0.00005	0.0003	05/12/20 13:55	mfm
Cadmium, total recoverable	M200.8 ICP-MS	1	0.0125			mg/L	0.00005	0.0003	05/11/20 17:01	mfm
Calcium, dissolved	M200.7 ICP	1	20.8			mg/L	0.1	0.5	05/13/20 12:27	kja
Chromium, total recoverable	M200.8 ICP-MS	1	0.0009	B		mg/L	0.0005	0.002	05/11/20 17:01	mfm
Cobalt, dissolved	M200.7 ICP	1		U		mg/L	0.01	0.05	05/13/20 12:27	kja
Cobalt, total recoverable	M200.7 ICP	1		U		mg/L	0.01	0.05	05/13/20 10:35	kja
Copper, dissolved	M200.8 ICP-MS	1	0.009			mg/L	0.0008	0.002	05/13/20 16:38	mfm
Copper, total recoverable	M200.8 ICP-MS	1	0.0119			mg/L	0.0008	0.002	05/11/20 17:01	mfm
Iron, dissolved	M200.7 ICP	1	0.20			mg/L	0.06	0.2	05/13/20 12:27	kja
Iron, total recoverable	M200.7 ICP	1	1.45			mg/L	0.06	0.2	05/13/20 10:35	kja
Lead, dissolved	M200.8 ICP-MS	1	0.0005			mg/L	0.0001	0.0005	05/12/20 13:55	mfm
Lead, total recoverable	M200.8 ICP-MS	1	0.0021			mg/L	0.0001	0.0005	05/11/20 17:01	mfm
Magnesium, dissolved	M200.7 ICP	1	2.2			mg/L	0.2	1	05/13/20 12:27	kja
Manganese, dissolved	M200.7 ICP	1	0.37			mg/L	0.01	0.05	05/13/20 12:27	kja
Manganese, total recoverable	M200.7 ICP	1	0.35			mg/L	0.01	0.05	05/13/20 10:35	kja
Mercury, total	M1631E, Atomic Fluorescence	1	9.1		*	ng/L	0.3	1	05/12/20 7:13	enb
Nickel, dissolved	M200.7 ICP	1		U		mg/L	0.008	0.04	05/13/20 12:27	kja
Nickel, total recoverable	M200.7 ICP	1		U		mg/L	0.008	0.04	05/13/20 10:35	kja
Potassium, dissolved	M200.7 ICP	1	1.9			mg/L	0.2	1	05/13/20 12:27	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.0001	B		mg/L	0.0001	0.0003	05/12/20 13:55	mfm
Selenium, total recoverable	M200.8 ICP-MS	1	0.0001	B		mg/L	0.0001	0.0003	05/11/20 17:01	mfm
Silica, dissolved	M200.7 ICP	1	28.3			mg/L	0.2	1	05/13/20 12:27	kja
Silica, total recoverable	M200.7 ICP	1	36.4		*	mg/L	0.2	1	05/13/20 10:35	kja
Silver, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	05/12/20 13:55	mfm
Silver, total recoverable	M200.8 ICP-MS	1	0.0001	B		mg/L	0.0001	0.0005	05/11/20 17:01	mfm
Sodium, dissolved	M200.7 ICP	1	3.4			mg/L	0.2	1	05/13/20 12:27	kja
Uranium, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	05/12/20 13:55	mfm
Uranium, total recoverable	M200.8 ICP-MS	1	0.0001	B		mg/L	0.0001	0.0005	05/11/20 17:01	mfm
Zinc, dissolved	M200.8 ICP-MS	1	1.61			mg/L	0.006	0.02	05/12/20 13:55	mfm

Rio Grande Silver, Inc.
Project ID: BO44726
Sample ID: WG-9360-B

ACZ Sample ID: ***L58847-02***
Date Sampled: *05/05/20 10:40*
Date Received: *05/07/20*
Sample Matrix: *Surface Water*

Zinc, total recoverable	M200.8 ICP-MS	1	1.68			mg/L	0.006	0.02	05/11/20 17:01	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	05/08/20 0:00	jck
Carbonate as CaCO3		1		U		mg/L	2	20	05/08/20 0:00	jck
Hydroxide as CaCO3		1		U		mg/L	2	20	05/08/20 0:00	jck
Total Alkalinity		1	14.0	B		mg/L	2	20	05/08/20 0:00	jck
Carbon, dissolved organic (DOC)	SM5310B	1	4.8	B	*	mg/L	1	5	05/12/20 21:46	ttg
Cation-Anion Balance	Calculation									
Cation-Anion Balance			0.0			%			05/21/20 0:00	calc
Sum of Anions			1.5			meq/L			05/21/20 0:00	calc
Sum of Cations			1.5			meq/L			05/21/20 0:00	calc
Chemical Oxygen Demand	M410.4	1	10	B	*	mg/L	10	20	05/14/20 12:54	mlh/eep
Chloride	M300.0 - Ion Chromatography	1	1.28	B	*	mg/L	0.4	2	05/13/20 21:13	mss2
Fluoride	SM4500F-C	1	0.2	B		mg/L	0.1	0.4	05/13/20 19:41	eep
Hardness as CaCO3 (dissolved)	SM2340B - Calculation		61.0			mg/L	0.2	5	05/21/20 0:00	calc
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2		0.60	H		mg/L	0.02	0.1	05/21/20 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.60	H	*	mg/L	0.02	0.1	05/08/20 22:11	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1		UH	*	mg/L	0.01	0.05	05/08/20 22:11	pjb
Nitrogen, ammonia	M350.1 Auto Salicylate w/gas diffusion	1		U	*	mg/L	0.05	0.2	05/16/20 12:47	wtc
Nitrogen, organic	M351.2 & M350.1 - TKN minus NH3		0.3	B		mg/L	0.2	0.5	05/21/20 0:00	calc
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	1	0.3	B		mg/L	0.2	0.5	05/13/20 0:10	pjb
pH (lab)	SM4500H+ B									
pH		1	7.4	H		units	0.1	0.1	05/08/20 0:00	jck
pH measured at		1	20.4			C	0.1	0.1	05/08/20 0:00	jck
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	0.13			mg/L	0.01	0.05	05/12/20 15:46	rbt
Residue, Filterable (TDS) @180C	SM2540C	1	176		*	mg/L	20	40	05/07/20 21:08	jck
Residue, Non-Filterable (TSS) @105C	SM2540D	1		U	*	mg/L	5	20	05/07/20 20:17	jck
Sulfate	M300.0 - Ion Chromatography	1	54.5			mg/L	0.4	2	05/13/20 21:13	mss2
Sulfide as S	SM4500S2-D	1		U	*	mg/L	0.02	0.1	05/12/20 12:05	mlh

Rio Grande Silver, Inc.
Project ID: BO44726
Sample ID: WG-9700-W

ACZ Sample ID: ***L58847-03***
Date Sampled: *05/05/20 11:30*
Date Received: *05/07/20*
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								05/12/20 12:53	mss2
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								05/12/20 12:30	rbt
Total Recoverable Digestion	M200.2 ICP-MS								05/09/20 14:10	mfm/enb
Total Recoverable Digestion	M200.2 ICP								05/12/20 14:01	kja

Rio Grande Silver, Inc.
Project ID: BO44726
Sample ID: WG-9700-W

ACZ Sample ID: ***L58847-03***
Date Sampled: *05/05/20 11:30*
Date Received: *05/07/20*
Sample Matrix: *Surface Water*

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	0.46		*	mg/L	0.05	0.3	05/13/20 12:30	kja
Aluminum, total recoverable	M200.7 ICP	1	3.66			mg/L	0.05	0.3	05/13/20 10:38	kja
Arsenic, dissolved	M200.8 ICP-MS	1	0.0241			mg/L	0.0002	0.001	05/12/20 13:57	mfm
Arsenic, total recoverable	M200.8 ICP-MS	1	0.0342			mg/L	0.0002	0.001	05/11/20 17:03	mfm
Boron, dissolved	M200.7 ICP	1		U		mg/L	0.02	0.1	05/13/20 12:30	kja
Boron, total recoverable	M200.7 ICP	1		U		mg/L	0.02	0.1	05/13/20 10:38	kja
Cadmium, dissolved	M200.8 ICP-MS	1	0.00143			mg/L	0.00005	0.0003	05/12/20 13:57	mfm
Cadmium, total recoverable	M200.8 ICP-MS	1	0.00159			mg/L	0.00005	0.0003	05/11/20 17:03	mfm
Calcium, dissolved	M200.7 ICP	1	8.6			mg/L	0.1	0.5	05/13/20 12:30	kja
Chromium, total recoverable	M200.8 ICP-MS	1	0.0012	B		mg/L	0.0005	0.002	05/11/20 17:03	mfm
Cobalt, dissolved	M200.7 ICP	1		U		mg/L	0.01	0.05	05/13/20 12:30	kja
Cobalt, total recoverable	M200.7 ICP	1		U		mg/L	0.01	0.05	05/13/20 10:38	kja
Copper, dissolved	M200.8 ICP-MS	1	0.0122			mg/L	0.0008	0.002	05/13/20 16:43	mfm
Copper, total recoverable	M200.8 ICP-MS	1	0.0151			mg/L	0.0008	0.002	05/11/20 17:03	mfm
Iron, dissolved	M200.7 ICP	1	0.37			mg/L	0.06	0.2	05/13/20 12:30	kja
Iron, total recoverable	M200.7 ICP	1	2.03			mg/L	0.06	0.2	05/13/20 10:38	kja
Lead, dissolved	M200.8 ICP-MS	1	0.0007			mg/L	0.0001	0.0005	05/12/20 13:57	mfm
Lead, total recoverable	M200.8 ICP-MS	1	0.0022			mg/L	0.0001	0.0005	05/11/20 17:03	mfm
Magnesium, dissolved	M200.7 ICP	1	1.1			mg/L	0.2	1	05/13/20 12:30	kja
Manganese, dissolved	M200.7 ICP	1	0.10			mg/L	0.01	0.05	05/13/20 12:30	kja
Manganese, total recoverable	M200.7 ICP	1	0.10			mg/L	0.01	0.05	05/13/20 10:38	kja
Mercury, total	M1631E, Atomic Fluorescence	1	11.7		*	ng/L	0.3	1	05/12/20 7:18	enb
Nickel, dissolved	M200.7 ICP	1		U		mg/L	0.008	0.04	05/13/20 12:30	kja
Nickel, total recoverable	M200.7 ICP	1		U		mg/L	0.008	0.04	05/13/20 10:38	kja
Potassium, dissolved	M200.7 ICP	1	1.4			mg/L	0.2	1	05/13/20 12:30	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.0001	B		mg/L	0.0001	0.0003	05/12/20 13:57	mfm
Selenium, total recoverable	M200.8 ICP-MS	1	0.0001	B		mg/L	0.0001	0.0003	05/11/20 17:03	mfm
Silica, dissolved	M200.7 ICP	1	27.9			mg/L	0.2	1	05/13/20 12:30	kja
Silica, total recoverable	M200.7 ICP	1	40.2		*	mg/L	0.2	1	05/13/20 10:38	kja
Silver, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	05/12/20 13:57	mfm
Silver, total recoverable	M200.8 ICP-MS	1	0.0001	B		mg/L	0.0001	0.0005	05/11/20 17:03	mfm
Sodium, dissolved	M200.7 ICP	1	2.8			mg/L	0.2	1	05/13/20 12:30	kja
Uranium, dissolved	M200.8 ICP-MS	1	0.0002	B		mg/L	0.0001	0.0005	05/12/20 13:57	mfm
Uranium, total recoverable	M200.8 ICP-MS	1	0.0002	B		mg/L	0.0001	0.0005	05/11/20 17:03	mfm
Zinc, dissolved	M200.8 ICP-MS	1	0.133			mg/L	0.006	0.02	05/12/20 13:57	mfm

Rio Grande Silver, Inc.
Project ID: BO44726
Sample ID: WG-9700-W

ACZ Sample ID: ***L58847-03***
Date Sampled: *05/05/20 11:30*
Date Received: *05/07/20*
Sample Matrix: *Surface Water*

Zinc, total recoverable	M200.8 ICP-MS	1	0.147			mg/L	0.006	0.02	05/11/20 17:03	mfm

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	17.8	B		mg/L	2	20	05/08/20 0:00	jck
Carbonate as CaCO3		1		U		mg/L	2	20	05/08/20 0:00	jck
Hydroxide as CaCO3		1		U		mg/L	2	20	05/08/20 0:00	jck
Total Alkalinity		1	17.8	B		mg/L	2	20	05/08/20 0:00	jck
Carbon, dissolved organic (DOC)	SM5310B	1	5.2		*	mg/L	1	5	05/12/20 21:56	ttg
Cation-Anion Balance	Calculation									
Cation-Anion Balance			7.6			%			05/21/20 0:00	calc
Sum of Anions			0.655			meq/L			05/21/20 0:00	calc
Sum of Cations			0.762			meq/L			05/21/20 0:00	calc
Chemical Oxygen Demand	M410.4	1	20		*	mg/L	10	20	05/14/20 13:19	mlh/eep
Chloride	M300.0 - Ion Chromatography	1	1.19	B	*	mg/L	0.4	2	05/13/20 21:48	mss2
Fluoride	SM4500F-C	1	0.2	B	*	mg/L	0.1	0.4	05/14/20 16:01	eep
Hardness as CaCO3 (dissolved)	SM2340B - Calculation		26.0			mg/L	0.2	5	05/21/20 0:00	calc
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2		0.31	H		mg/L	0.02	0.1	05/21/20 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.31	H	*	mg/L	0.02	0.1	05/08/20 22:14	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1		UH	*	mg/L	0.01	0.05	05/08/20 22:14	pjb
Nitrogen, ammonia	M350.1 Auto Salicylate w/gas diffusion	1		U	*	mg/L	0.05	0.2	05/16/20 12:48	wtc
Nitrogen, organic	M351.2 & M350.1 - TKN minus NH3		0.3	B		mg/L	0.2	0.5	05/21/20 0:00	calc
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	1	0.3	B		mg/L	0.2	0.5	05/13/20 0:11	pjb
pH (lab)	SM4500H+ B									
pH		1	7.6	H		units	0.1	0.1	05/08/20 0:00	jck
pH measured at		1	20.7			C	0.1	0.1	05/08/20 0:00	jck
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	0.15		*	mg/L	0.01	0.05	05/21/20 0:41	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	120		*	mg/L	20	40	05/07/20 21:11	jck
Residue, Non-Filterable (TSS) @105C	SM2540D	1		U	*	mg/L	5	20	05/07/20 20:19	jck
Sulfate	M300.0 - Ion Chromatography	1	11.1			mg/L	0.4	2	05/13/20 21:48	mss2
Sulfide as S	SM4500S2-D	1		U	*	mg/L	0.02	0.1	05/12/20 12:09	mlh

Rio Grande Silver, Inc.
Project ID: BO44726
Sample ID: WG-U

ACZ Sample ID: ***L58847-04***
Date Sampled: *05/05/20 12:10*
Date Received: *05/07/20*
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								05/12/20 13:00	mss2
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								05/14/20 12:28	rbt
Total Recoverable Digestion	M200.2 ICP-MS								05/09/20 14:21	mfm/enb
Total Recoverable Digestion	M200.2 ICP								05/12/20 14:14	kja

Rio Grande Silver, Inc.
Project ID: BO44726
Sample ID: WG-U

ACZ Sample ID: ***L58847-04***
Date Sampled: *05/05/20 12:10*
Date Received: *05/07/20*
Sample Matrix: *Surface Water*

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	0.45		*	mg/L	0.05	0.3	05/13/20 12:33	kja
Aluminum, total recoverable	M200.7 ICP	1	4.93			mg/L	0.05	0.3	05/13/20 10:41	kja
Arsenic, dissolved	M200.8 ICP-MS	1	0.0027			mg/L	0.0002	0.001	05/12/20 13:59	mfm
Arsenic, total recoverable	M200.8 ICP-MS	1	0.0027			mg/L	0.0002	0.001	05/11/20 17:05	mfm
Boron, dissolved	M200.7 ICP	1		U		mg/L	0.02	0.1	05/13/20 12:33	kja
Boron, total recoverable	M200.7 ICP	1		U		mg/L	0.02	0.1	05/13/20 10:41	kja
Cadmium, dissolved	M200.8 ICP-MS	1	0.00024	B		mg/L	0.00005	0.0003	05/12/20 13:59	mfm
Cadmium, total recoverable	M200.8 ICP-MS	1	0.00008	B		mg/L	0.00005	0.0003	05/11/20 17:05	mfm
Calcium, dissolved	M200.7 ICP	1	6.5			mg/L	0.1	0.5	05/13/20 12:33	kja
Chromium, total recoverable	M200.8 ICP-MS	1	0.0015	B		mg/L	0.0005	0.002	05/11/20 17:05	mfm
Cobalt, dissolved	M200.7 ICP	1		U		mg/L	0.01	0.05	05/13/20 12:33	kja
Cobalt, total recoverable	M200.7 ICP	1		U		mg/L	0.01	0.05	05/13/20 10:41	kja
Copper, dissolved	M200.8 ICP-MS	1	0.0009	B		mg/L	0.0008	0.002	05/13/20 16:45	mfm
Copper, total recoverable	M200.8 ICP-MS	1	0.0019	B		mg/L	0.0008	0.002	05/11/20 17:05	mfm
Iron, dissolved	M200.7 ICP	1	0.28			mg/L	0.06	0.2	05/13/20 12:33	kja
Iron, total recoverable	M200.7 ICP	1	2.46			mg/L	0.06	0.2	05/13/20 10:41	kja
Lead, dissolved	M200.8 ICP-MS	1	0.001			mg/L	0.0001	0.0005	05/12/20 13:59	mfm
Lead, total recoverable	M200.8 ICP-MS	1	0.001			mg/L	0.0001	0.0005	05/11/20 17:05	mfm
Magnesium, dissolved	M200.7 ICP	1	0.8	B		mg/L	0.2	1	05/13/20 12:33	kja
Manganese, dissolved	M200.7 ICP	1		U		mg/L	0.01	0.05	05/13/20 12:33	kja
Manganese, total recoverable	M200.7 ICP	1	0.03	B		mg/L	0.01	0.05	05/13/20 10:41	kja
Mercury, total	M1631E, Atomic Fluorescence	1	5.9		*	ng/L	0.3	1	05/12/20 7:23	enb
Nickel, dissolved	M200.7 ICP	1		U		mg/L	0.008	0.04	05/13/20 12:33	kja
Nickel, total recoverable	M200.7 ICP	1		U		mg/L	0.008	0.04	05/13/20 10:41	kja
Potassium, dissolved	M200.7 ICP	1	1.3			mg/L	0.2	1	05/13/20 12:33	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.0001	B		mg/L	0.0001	0.0003	05/12/20 13:59	mfm
Selenium, total recoverable	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0003	05/11/20 17:05	mfm
Silica, dissolved	M200.7 ICP	1	31.7			mg/L	0.2	1	05/13/20 12:33	kja
Silica, total recoverable	M200.7 ICP	1	50.3		*	mg/L	0.2	1	05/13/20 10:41	kja
Silver, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	05/12/20 13:59	mfm
Silver, total recoverable	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	05/11/20 17:05	mfm
Sodium, dissolved	M200.7 ICP	1	2.8			mg/L	0.2	1	05/13/20 12:33	kja
Uranium, dissolved	M200.8 ICP-MS	1	0.0002	B		mg/L	0.0001	0.0005	05/12/20 13:59	mfm
Uranium, total recoverable	M200.8 ICP-MS	1	0.0001	B		mg/L	0.0001	0.0005	05/11/20 17:05	mfm
Zinc, dissolved	M200.8 ICP-MS	1	0.010	B		mg/L	0.006	0.02	05/12/20 13:59	mfm

Rio Grande Silver, Inc.
Project ID: BO44726
Sample ID: WG-U

ACZ Sample ID: ***L58847-04***
Date Sampled: *05/05/20 12:10*
Date Received: *05/07/20*
Sample Matrix: *Surface Water*

Zinc, total recoverable	M200.8 ICP-MS	1	0.007	B	*	mg/L	0.006	0.02	05/11/20 17:05	mfm

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	21.9			mg/L	2	20	05/08/20 0:00	jck
Carbonate as CaCO3		1		U		mg/L	2	20	05/08/20 0:00	jck
Hydroxide as CaCO3		1		U		mg/L	2	20	05/08/20 0:00	jck
Total Alkalinity		1	21.9			mg/L	2	20	05/08/20 0:00	jck
Carbon, dissolved organic (DOC)	SM5310B	1	6.2		*	mg/L	1	5	05/12/20 22:07	ttg
Cation-Anion Balance	Calculation									
Cation-Anion Balance			7.0			%			05/21/20 0:00	calc
Sum of Anions			0.533			meq/L			05/21/20 0:00	calc
Sum of Cations			0.613			meq/L			05/21/20 0:00	calc
Chemical Oxygen Demand	M410.4	1	20		*	mg/L	10	20	05/14/20 13:45	mlh/eep
Chloride	M300.0 - Ion Chromatography	1	1.11	B	*	mg/L	0.4	2	05/13/20 22:24	mss2
Fluoride	SM4500F-C	1	0.1	B	*	mg/L	0.1	0.4	05/14/20 16:05	eep
Hardness as CaCO3 (dissolved)	SM2340B - Calculation		20			mg/L	0.2	5	05/21/20 0:00	calc
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2			UH		mg/L	0.02	0.1	05/21/20 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1		UH	*	mg/L	0.02	0.1	05/08/20 22:15	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1		UH	*	mg/L	0.01	0.05	05/08/20 22:15	pjb
Nitrogen, ammonia	M350.1 Auto Salicylate w/gas diffusion	1		U	*	mg/L	0.05	0.2	05/16/20 12:53	wtc
Nitrogen, organic	M351.2 & M350.1 - TKN minus NH3		0.3	B		mg/L	0.2	0.5	05/21/20 0:00	calc
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	1	0.3	B		mg/L	0.2	0.5	05/13/20 0:14	pjb
pH (lab)	SM4500H+ B									
pH		1	7.6	H		units	0.1	0.1	05/08/20 0:00	jck
pH measured at		1	20.4			C	0.1	0.1	05/08/20 0:00	jck
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	0.14		*	mg/L	0.01	0.05	05/15/20 11:55	rbt
Residue, Filterable (TDS) @180C	SM2540C	1	126		*	mg/L	20	40	05/07/20 21:13	jck
Residue, Non-Filterable (TSS) @105C	SM2540D	1	6.0	B	*	mg/L	5	20	05/08/20 20:24	jck
Sulfate	M300.0 - Ion Chromatography	1	2.77			mg/L	0.4	2	05/13/20 22:24	mss2
Sulfide as S	SM4500S2-D	1	0.02	B	*	mg/L	0.02	0.1	05/12/20 12:12	mlh

Rio Grande Silver, Inc.
Project ID: BO44726
Sample ID: TRIP BLANK

ACZ Sample ID: ***L58847-05***
Date Sampled: *05/05/20 10:10*
Date Received: *05/07/20*
Sample Matrix: *Surface Water*

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Mercury, total	M1631E, Atomic Fluorescence	1		U	*	ng/L	0.3	1	05/12/20 7:37	enb

Rio Grande Silver, Inc.
Project ID: BO44726
Sample ID: WG-1

ACZ Sample ID: ***L58847-06***
Date Sampled: *05/05/20 10:00*
Date Received: *05/07/20*
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								05/12/20 13:06	mss2
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								05/14/20 12:48	rbt
Total Recoverable Digestion	M200.2 ICP-MS								05/09/20 14:32	mfm/enb
Total Recoverable Digestion	M200.2 ICP								05/12/20 14:28	kja

Rio Grande Silver, Inc.
Project ID: BO44726
Sample ID: WG-1

ACZ Sample ID: ***L58847-06***
Date Sampled: *05/05/20 10:00*
Date Received: *05/07/20*
Sample Matrix: *Surface Water*

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	0.26	B		mg/L	0.05	0.3	05/13/20 12:36	kja
Aluminum, total recoverable	M200.7 ICP	1	1.44			mg/L	0.05	0.3	05/13/20 10:44	kja
Arsenic, dissolved	M200.8 ICP-MS	1	0.0205			mg/L	0.0002	0.001	05/12/20 14:04	mfm
Arsenic, total recoverable	M200.8 ICP-MS	1	0.0216			mg/L	0.0002	0.001	05/11/20 17:07	mfm
Boron, dissolved	M200.7 ICP	1		U		mg/L	0.02	0.1	05/13/20 12:36	kja
Boron, total recoverable	M200.7 ICP	1		U		mg/L	0.02	0.1	05/13/20 10:44	kja
Cadmium, dissolved	M200.8 ICP-MS	1	0.00588			mg/L	0.00005	0.0003	05/12/20 14:04	mfm
Cadmium, total recoverable	M200.8 ICP-MS	1	0.00598			mg/L	0.00005	0.0003	05/11/20 17:07	mfm
Calcium, dissolved	M200.7 ICP	1	24.1		*	mg/L	0.1	0.5	05/13/20 12:36	kja
Chromium, total recoverable	M200.8 ICP-MS	1	0.0005	B		mg/L	0.0005	0.002	05/11/20 17:07	mfm
Cobalt, dissolved	M200.7 ICP	1		U		mg/L	0.01	0.05	05/13/20 12:36	kja
Cobalt, total recoverable	M200.7 ICP	1		U		mg/L	0.01	0.05	05/13/20 10:44	kja
Copper, dissolved	M200.8 ICP-MS	1	0.0045			mg/L	0.0008	0.002	05/13/20 16:47	mfm
Copper, total recoverable	M200.8 ICP-MS	1	0.0051			mg/L	0.0008	0.002	05/11/20 17:07	mfm
Iron, dissolved	M200.7 ICP	1	0.17	B		mg/L	0.06	0.2	05/13/20 12:36	kja
Iron, total recoverable	M200.7 ICP	1	0.72			mg/L	0.06	0.2	05/13/20 10:44	kja
Lead, dissolved	M200.8 ICP-MS	1	0.0014			mg/L	0.0001	0.0005	05/12/20 14:04	mfm
Lead, total recoverable	M200.8 ICP-MS	1	0.002			mg/L	0.0001	0.0005	05/11/20 17:07	mfm
Magnesium, dissolved	M200.7 ICP	1	2.4			mg/L	0.2	1	05/13/20 12:36	kja
Manganese, dissolved	M200.7 ICP	1		U		mg/L	0.01	0.05	05/13/20 12:36	kja
Manganese, total recoverable	M200.7 ICP	1		U		mg/L	0.01	0.05	05/13/20 10:44	kja
Mercury, total	M1631E, Atomic Fluorescence	1	5.7		*	ng/L	0.3	1	05/12/20 7:42	enb
Nickel, dissolved	M200.7 ICP	1		U		mg/L	0.008	0.04	05/13/20 12:36	kja
Nickel, total recoverable	M200.7 ICP	1		U		mg/L	0.008	0.04	05/13/20 10:44	kja
Potassium, dissolved	M200.7 ICP	1	2.1			mg/L	0.2	1	05/13/20 12:36	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.0002	B		mg/L	0.0001	0.0003	05/12/20 14:04	mfm
Selenium, total recoverable	M200.8 ICP-MS	1	0.0001	B		mg/L	0.0001	0.0003	05/11/20 17:07	mfm
Silica, dissolved	M200.7 ICP	1	28.3			mg/L	0.2	1	05/13/20 12:36	kja
Silica, total recoverable	M200.7 ICP	1	33.0		*	mg/L	0.2	1	05/13/20 10:44	kja
Silver, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	05/12/20 14:04	mfm
Silver, total recoverable	M200.8 ICP-MS	1	0.0001	B		mg/L	0.0001	0.0005	05/11/20 17:07	mfm
Sodium, dissolved	M200.7 ICP	1	4.1		*	mg/L	0.2	1	05/13/20 12:36	kja
Uranium, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	05/12/20 14:04	mfm
Uranium, total recoverable	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	05/11/20 17:07	mfm
Zinc, dissolved	M200.8 ICP-MS	1	1.41			mg/L	0.006	0.02	05/12/20 14:04	mfm

Rio Grande Silver, Inc.
Project ID: BO44726
Sample ID: WG-1

ACZ Sample ID: ***L58847-06***
Date Sampled: *05/05/20 10:00*
Date Received: *05/07/20*
Sample Matrix: *Surface Water*

Zinc, total recoverable	M200.8 ICP-MS	1	1.43		*	mg/L	0.006	0.02	05/11/20 17:07	mfm

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	11.5	B		mg/L	2	20	05/08/20 0:00	jck
Carbonate as CaCO3		1		U		mg/L	2	20	05/08/20 0:00	jck
Hydroxide as CaCO3		1		U		mg/L	2	20	05/08/20 0:00	jck
Total Alkalinity		1	11.5	B		mg/L	2	20	05/08/20 0:00	jck
Carbon, dissolved organic (DOC)	SM5310B	1	4.3	B	*	mg/L	1	5	05/12/20 22:19	ttg
Cation-Anion Balance	Calculation									
Cation-Anion Balance			0.0			%			05/21/20 0:00	calc
Sum of Anions			1.7			meq/L			05/21/20 0:00	calc
Sum of Cations			1.7			meq/L			05/21/20 0:00	calc
Chemical Oxygen Demand	M410.4	1	10	B	*	mg/L	10	20	05/14/20 14:11	mlh/eep
Chloride	M300.0 - Ion Chromatography	1	1.37	B	*	mg/L	0.4	2	05/13/20 22:42	mss2
Fluoride	SM4500F-C	1	0.3	B	*	mg/L	0.1	0.4	05/14/20 16:08	eep
Hardness as CaCO3 (dissolved)	SM2340B - Calculation		70			mg/L	0.2	5	05/21/20 0:00	calc
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2		0.89	H		mg/L	0.02	0.1	05/21/20 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.89	H	*	mg/L	0.02	0.1	05/08/20 22:16	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1		UH	*	mg/L	0.01	0.05	05/08/20 22:16	pjb
Nitrogen, ammonia	M350.1 Auto Salicylate w/gas diffusion	1		U	*	mg/L	0.05	0.2	05/16/20 12:54	wtc
Nitrogen, organic	M351.2 & M350.1 - TKN minus NH3		0.2	B		mg/L	0.2	0.5	05/21/20 0:00	calc
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	1	0.2	B		mg/L	0.2	0.5	05/13/20 0:15	pjb
pH (lab)	SM4500H+ B									
pH		1	7.3	H		units	0.1	0.1	05/08/20 0:00	jck
pH measured at		1	20.9			C	0.1	0.1	05/08/20 0:00	jck
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	0.09		*	mg/L	0.01	0.05	05/15/20 11:58	rbt
Residue, Filterable (TDS) @180C	SM2540C	1	180			mg/L	20	40	05/07/20 21:19	jck
Residue, Non-Filterable (TSS) @105C	SM2540D	1		U	*	mg/L	5	20	05/08/20 20:26	jck
Sulfate	M300.0 - Ion Chromatography	1	65.9			mg/L	0.4	2	05/13/20 22:42	mss2
Sulfide as S	SM4500S2-D	1		U	*	mg/L	0.02	0.1	05/12/20 12:16	mlh

Report Header Explanations

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

QC Sample Types

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

REP001.03.15.02

Rio Grande Silver, Inc.

ACZ Project ID: ***L58847***

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
WG496890													
WG496890PBW1	PBW	05/08/20 18:09				U	mg/L		-20	20			
WG496890LCSW3	LCSW	05/08/20 18:28	WC200422-2	820.0001		840	mg/L	102	90	110			
L58855-04DUP	DUP	05/08/20 21:13			123	136	mg/L				10	20	
WG496890LCSW6	LCSW	05/08/20 21:32	WC200422-2	820.0001		833	mg/L	102	90	110			
WG496890PBW2	PBW	05/08/20 21:41				U	mg/L		-20	20			
WG496890LCSW9	LCSW	05/09/20 1:13	WC200422-2	820.0001		851	mg/L	104	90	110			

Aluminum, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG497113													
WG497113ICV	ICV	05/13/20 11:32	II200423-2	2		1.978	mg/L	99	95	105			
WG497113ICB	ICB	05/13/20 11:38				U	mg/L		-0.15	0.15			
WG497113PQV	PQV	05/13/20 11:41	II200501-4	.2503		.23	mg/L	92	70	130			
WG497113SIC	SIC	05/13/20 11:44	II200501-5	200.4903		207.1	mg/L	103	1	200			
WG497113LFB	LFB	05/13/20 11:50	II200501-2	1.0012		.978	mg/L	98	85	115			
L58847-01AS	AS	05/13/20 12:14	II200501-2	1.0012	.22	1.432	mg/L	121	85	115			M1
L58847-01ASD	ASD	05/13/20 12:18	II200501-2	1.0012	.22	1.648	mg/L	143	85	115	14	20	M1
WG497113CCV1	CCV	05/13/20 12:21	II200505-1	1		.968	mg/L	97	90	110			
WG497113CCB1	CCB	05/13/20 12:24				U	mg/L		-0.15	0.15			
L58855-02AS	AS	05/13/20 12:54	II200501-2	1.0012	U	1.007	mg/L	101	85	115			
WG497113CCV2	CCV	05/13/20 12:58	II200505-1	1		.929	mg/L	93	90	110			
WG497113CCB2	CCB	05/13/20 13:01				U	mg/L		-0.15	0.15			
L58855-02ASD	ASD	05/13/20 13:04	II200501-2	1.0012	U	1.041	mg/L	104	85	115	3	20	
WG497113CCV3	CCV	05/13/20 13:10	II200505-1	1		.967	mg/L	97	90	110			
WG497113CCB3	CCB	05/13/20 13:13				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
WG497102													
WG497102ICV	ICV	05/13/20 9:20	II200423-2	2		1.966	mg/L	98	95	105			
WG497102ICB	ICB	05/13/20 9:26				U	mg/L		-0.15	0.15			
WG497102PQV	PQV	05/13/20 9:30	II200501-4	.2503		.237	mg/L	95	70	130			
WG497102SIC	SIC	05/13/20 9:33	II200501-5	200.4903		198.1	mg/L	99	1	200			
WG497010LRB	LRB	05/13/20 9:39				U	mg/L		-0.11	0.11			
WG497010LFB	LFB	05/13/20 9:42	II200501-2	1.0012		1.106	mg/L	110	85	115			
WG497102CCV1	CCV	05/13/20 10:10	II200505-1	1		.945	mg/L	95	90	110			
WG497102CCB1	CCB	05/13/20 10:13				U	mg/L		-0.15	0.15			
WG497102CCV2	CCV	05/13/20 10:47	II200505-1	1		.93	mg/L	93	90	110			
WG497102CCB2	CCB	05/13/20 10:50				U	mg/L		-0.15	0.15			
L58847-06LFM	LFM	05/13/20 10:53	II200501-2	1.0012	1.44	2.492	mg/L	105	70	130			
L58847-06LFMD	LFMD	05/13/20 10:56	II200501-2	1.0012	1.44	2.536	mg/L	109	70	130	2	20	
WG497102CCV3	CCV	05/13/20 11:12	II200505-1	1		.953	mg/L	95	90	110			
WG497102CCB3	CCB	05/13/20 11:15				U	mg/L		-0.15	0.15			

Rio Grande Silver, Inc.

ACZ Project ID: ***L58847***

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
WG497033													
WG497033ICV	ICV	05/12/20 13:23	MS200511-3	.05		.04982	mg/L	100	90	110			
WG497033ICB	ICB	05/12/20 13:25				U	mg/L		-0.00044	0.00044			
WG497033LFB	LFB	05/12/20 13:26	MS200421-3	.05005		.04388	mg/L	88	85	115			
WG497033CCV1	CCV	05/12/20 13:44	MS200504-2	.1001		.09998	mg/L	100	90	110			
WG497033CCB1	CCB	05/12/20 13:46				U	mg/L		-0.0006	0.0006			
L58847-04AS	AS	05/12/20 14:01	MS200421-3	.05005	.0027	.04876	mg/L	92	70	130			
L58847-04ASD	ASD	05/12/20 14:03	MS200421-3	.05005	.0027	.04817	mg/L	91	70	130	1	20	
WG497033CCV2	CCV	05/12/20 14:06	MS200504-2	.1001		.09902	mg/L	99	90	110			
WG497033CCB2	CCB	05/12/20 14:08				U	mg/L		-0.0006	0.0006			
WG497033CCV3	CCV	05/12/20 14:19	MS200504-2	.1001		.09519	mg/L	95	90	110			
WG497033CCB3	CCB	05/12/20 14:21				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
WG496991													
WG496991ICV	ICV	05/11/20 16:33	MS200511-3	.05		.0493	mg/L	99	90	110			
WG496991ICB	ICB	05/11/20 16:34				U	mg/L		-0.0006	0.0006			
WG496900LRB	LRB	05/11/20 16:36				U	mg/L		-0.00044	0.00044			
WG496900LFB	LFB	05/11/20 16:38	MS200421-3	.05005		.04598	mg/L	92	85	115			
L58781-01LFM	LFM	05/11/20 16:47	MS200421-3	.05005	.0007	.045	mg/L	89	70	130			
L58781-01LFMD	LFMD	05/11/20 16:49	MS200421-3	.05005	.0007	.04719	mg/L	93	70	130	5	20	
WG496991CCV1	CCV	05/11/20 16:54	MS200504-2	.1001		.10237	mg/L	102	90	110			
WG496991CCB1	CCB	05/11/20 16:56				U	mg/L		-0.0006	0.0006			
L58851-02LFM	LFM	05/11/20 17:12	MS200421-3	.05005	U	.04675	mg/L	93	70	130			
L58851-02LFMD	LFMD	05/11/20 17:14	MS200421-3	.05005	U	.04508	mg/L	90	70	130	4	20	
WG496991CCV2	CCV	05/11/20 17:16	MS200504-2	.1001		.10181	mg/L	102	90	110			
WG496991CCB2	CCB	05/11/20 17:18				U	mg/L		-0.0006	0.0006			
WG496991CCV3	CCV	05/11/20 17:30	MS200504-2	.1001		.10239	mg/L	102	90	110			
WG496991CCB3	CCB	05/11/20 17:32				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
WG497113													
WG497113ICV	ICV	05/13/20 11:32	II200423-2	2		2.002	mg/L	100	95	105			
WG497113ICB	ICB	05/13/20 11:38				U	mg/L		-0.06	0.06			
WG497113PQV	PQV	05/13/20 11:41	II200501-4	.1001		.096	mg/L	96	70	130			
WG497113SIC	SIC	05/13/20 11:44	II200501-5	.1001		.097	mg/L	97	80	120			
WG497113LFB	LFB	05/13/20 11:50	II200501-2	.5005		.496	mg/L	99	85	115			
L58847-01AS	AS	05/13/20 12:14	II200501-2	.5005	U	.503	mg/L	100	85	115			
L58847-01ASD	ASD	05/13/20 12:18	II200501-2	.5005	U	.495	mg/L	99	85	115	2	20	
WG497113CCV1	CCV	05/13/20 12:21	II200505-1	1		.984	mg/L	98	90	110			
WG497113CCB1	CCB	05/13/20 12:24				U	mg/L		-0.06	0.06			
L58855-02AS	AS	05/13/20 12:54	II200501-2	.5005	.1	.587	mg/L	97	85	115			
WG497113CCV2	CCV	05/13/20 12:58	II200505-1	1		.954	mg/L	95	90	110			
WG497113CCB2	CCB	05/13/20 13:01				U	mg/L		-0.06	0.06			
L58855-02ASD	ASD	05/13/20 13:04	II200501-2	.5005	.1	.606	mg/L	101	85	115	3	20	
WG497113CCV3	CCV	05/13/20 13:10	II200505-1	1		.995	mg/L	100	90	110			
WG497113CCB3	CCB	05/13/20 13:13				U	mg/L		-0.06	0.06			

Rio Grande Silver, Inc.

ACZ Project ID: ***L58847***

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
WG497102													
WG497102ICV	ICV	05/13/20 9:20	II200423-2	2		1.997	mg/L	100	95	105			
WG497102ICB	ICB	05/13/20 9:26				U	mg/L		-0.06	0.06			
WG497102PQV	PQV	05/13/20 9:30	II200501-4	.1001		.098	mg/L	98	70	130			
WG497102SIC	SIC	05/13/20 9:33	II200501-5	.1001		.093	mg/L	93	80	120			
WG497010LRB	LRB	05/13/20 9:39				U	mg/L		-0.044	0.044			
WG497010LFB	LFB	05/13/20 9:42	II200501-2	.5005		.553	mg/L	110	85	115			
WG497102CCV1	CCV	05/13/20 10:10	II200505-1	1		.992	mg/L	99	90	110			
WG497102CCB1	CCB	05/13/20 10:13				U	mg/L		-0.06	0.06			
WG497102CCV2	CCV	05/13/20 10:47	II200505-1	1		.981	mg/L	98	90	110			
WG497102CCB2	CCB	05/13/20 10:50				U	mg/L		-0.06	0.06			
L58847-06LFM	LFM	05/13/20 10:53	II200501-2	.5005	U	.494	mg/L	99	70	130			
L58847-06LFMD	LFMD	05/13/20 10:56	II200501-2	.5005	U	.502	mg/L	100	70	130	2	20	
WG497102CCV3	CCV	05/13/20 11:12	II200505-1	1		1.008	mg/L	101	90	110			
WG497102CCB3	CCB	05/13/20 11:15				U	mg/L		-0.06	0.06			

Cadmium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG497033													
WG497033ICV	ICV	05/12/20 13:23	MS200511-3	.05		.050315	mg/L	101	90	110			
WG497033ICB	ICB	05/12/20 13:25				U	mg/L		-0.00011	0.00011			
WG497033LFB	LFB	05/12/20 13:26	MS200421-3	.05005		.044175	mg/L	88	85	115			
WG497033CCV1	CCV	05/12/20 13:44	MS200504-2	.1001		.098476	mg/L	98	90	110			
WG497033CCB1	CCB	05/12/20 13:46				U	mg/L		-0.00015	0.00015			
L58847-04AS	AS	05/12/20 14:01	MS200421-3	.05005	.00024	.048047	mg/L	96	70	130			
L58847-04ASD	ASD	05/12/20 14:03	MS200421-3	.05005	.00024	.04698	mg/L	93	70	130	2	20	
WG497033CCV2	CCV	05/12/20 14:06	MS200504-2	.1001		.098968	mg/L	99	90	110			
WG497033CCB2	CCB	05/12/20 14:08				U	mg/L		-0.00015	0.00015			
WG497033CCV3	CCV	05/12/20 14:19	MS200504-2	.1001		.095972	mg/L	96	90	110			
WG497033CCB3	CCB	05/12/20 14:21				U	mg/L		-0.00015	0.00015			

Cadmium, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG496991													
WG496991ICV	ICV	05/11/20 16:33	MS200511-3	.05		.048757	mg/L	98	90	110			
WG496991ICB	ICB	05/11/20 16:34				U	mg/L		-0.00015	0.00015			
WG496900LRB	LRB	05/11/20 16:36				U	mg/L		-0.00011	0.00011			
WG496900LFB	LFB	05/11/20 16:38	MS200421-3	.05005		.046283	mg/L	92	85	115			
L58781-01LFM	LFM	05/11/20 16:47	MS200421-3	.05005	.00006	.045575	mg/L	91	70	130			
L58781-01LFMD	LFMD	05/11/20 16:49	MS200421-3	.05005	.00006	.045925	mg/L	92	70	130	1	20	
WG496991CCV1	CCV	05/11/20 16:54	MS200504-2	.1001		.099026	mg/L	99	90	110			
WG496991CCB1	CCB	05/11/20 16:56				U	mg/L		-0.00015	0.00015			
L58851-02LFM	LFM	05/11/20 17:12	MS200421-3	.05005	.00121	.047245	mg/L	92	70	130			
L58851-02LFMD	LFMD	05/11/20 17:14	MS200421-3	.05005	.00121	.046487	mg/L	90	70	130	2	20	
WG496991CCV2	CCV	05/11/20 17:16	MS200504-2	.1001		.099494	mg/L	99	90	110			
WG496991CCB2	CCB	05/11/20 17:18				U	mg/L		-0.00015	0.00015			
WG496991CCV3	CCV	05/11/20 17:30	MS200504-2	.1001		.098243	mg/L	98	90	110			
WG496991CCB3	CCB	05/11/20 17:32				U	mg/L		-0.00015	0.00015			

Rio Grande Silver, Inc.

ACZ Project ID: ***L58847***

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

Calcium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG497113													
WG497113ICV	ICV	05/13/20 11:32	II200423-2	100		99.13	mg/L	99	95	105			
WG497113ICB	ICB	05/13/20 11:38				U	mg/L		-0.3	0.3			
WG497113PQV	PQV	05/13/20 11:41	II200501-4	.5006		.5	mg/L	100	70	130			
WG497113SIC	SIC	05/13/20 11:44	II200501-5	200.7406		201.7	mg/L	100	1	200			
WG497113LFB	LFB	05/13/20 11:50	II200501-2	67.99353		62.57	mg/L	92	85	115			
L58847-01AS	AS	05/13/20 12:14	II200501-2	67.99353	21	83.58	mg/L	92	85	115			
L58847-01ASD	ASD	05/13/20 12:18	II200501-2	67.99353	21	82.82	mg/L	91	85	115	1	20	
WG497113CCV1	CCV	05/13/20 12:21	II200505-1	50		49.23	mg/L	98	90	110			
WG497113CCB1	CCB	05/13/20 12:24				U	mg/L		-0.3	0.3			
L58855-02AS	AS	05/13/20 12:54	II200501-2	67.99353	132	185.7	mg/L	79	85	115			MA
WG497113CCV2	CCV	05/13/20 12:58	II200505-1	50		47.44	mg/L	95	90	110			
WG497113CCB2	CCB	05/13/20 13:01				U	mg/L		-0.3	0.3			
L58855-02ASD	ASD	05/13/20 13:04	II200501-2	67.99353	132	190.1	mg/L	85	85	115	2	20	
WG497113CCV3	CCV	05/13/20 13:10	II200505-1	50		49.42	mg/L	99	90	110			
WG497113CCB3	CCB	05/13/20 13:13				U	mg/L		-0.3	0.3			

Carbon, dissolved organic (DOC) SM5310B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG496955													
WG496955CCV1	CCV	05/12/20 16:52	WI200402-3	50		53.1	mg/L	106	90	110			
WG496955CCB1	CCB	05/12/20 17:02				U	mg/L		-3	3			
WG496955PQV	PQV	05/12/20 17:15	WI200506-1	5		4.4	mg/L	88	70	130			
WG496955LFB	LFB	05/12/20 17:27	WI200304-11	50		52.2	mg/L	104	90	110			
WG496955CCV2	CCV	05/12/20 19:14	WI200402-3	50		52.2	mg/L	104	90	110			
WG496955CCB2	CCB	05/12/20 19:24				U	mg/L		-3	3			
L58798-09DUP	DUP	05/12/20 20:37			4.5	4.5	mg/L				0	20	RA
L58798-10AS	AS	05/12/20 21:00	WI200304-11	50	6.5	60.8	mg/L	109	90	110			
WG496955CCV3	CCV	05/12/20 21:24	WI200402-3	50		52.2	mg/L	104	90	110			
WG496955CCB3	CCB	05/12/20 21:35				U	mg/L		-3	3			
WG496955CCV4	CCV	05/12/20 22:51	WI200402-3	50		52	mg/L	104	90	110			
WG496955CCB4	CCB	05/12/20 23:02				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
WG497215													
WG497215ICV	ICV	05/14/20 10:19	WC191025-4	200		202	mg/L	101	90	110			
WG497215ICB	ICB	05/14/20 10:44				U	mg/L		-10	10			
WG497215LRB	LRB	05/14/20 11:10				U	mg/L		-10	10			
WG497215LFB	LFB	05/14/20 11:36	WC200130-3	50		50	mg/L	100	90	110			
WG497215CCV1	CCV	05/14/20 15:29	WC200130-2	400		381	mg/L	95	90	110			
WG497215CCB1	CCB	05/14/20 15:55				U	mg/L		-10	10			
L58896-05DUP	DUP	05/14/20 17:12			U	U	mg/L				0	20	RA
L58896-05AS	AS	05/14/20 17:38	WC200130-3	50	U	51	mg/L	102	90	110			
WG497215CCV2	CCV	05/14/20 18:04	WC200130-2	400		381	mg/L	95	90	110			
WG497215CCB2	CCB	05/14/20 18:30				U	mg/L		-10	10			

Rio Grande Silver, Inc.

ACZ Project ID: ***L58847***

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
WG492433													
WG492433ICV	ICV	02/24/20 15:51	WI200224-2	19.94		19.9	mg/L	100	90	110			
WG492433ICB	ICB	02/24/20 16:09				U	mg/L		-0.4	0.4			
WG497158													
WG497158CCV1	CCV	05/13/20 15:50	WI200510-1	50		51.6	mg/L	103	90	110			
WG497158CCB1	CCB	05/13/20 16:08				U	mg/L		-0.4	0.4			
WG497158PQV	PQV	05/13/20 16:26	WI200510-2	2.002		2.07	mg/L	103	70	130			
WG497158LFB1	LFB	05/13/20 16:44	WI200302-3	30		31.3	mg/L	104	90	110			
WG497158CCV2	CCV	05/13/20 19:25	WI200510-1	50		51.3	mg/L	103	90	110			
WG497158CCB2	CCB	05/13/20 19:43				U	mg/L		-0.4	0.4			
L58700-03DUP	DUP	05/13/20 20:01			278	279	mg/L				0	20	
L58700-03AS	AS	05/13/20 20:19	WI200302-3	600	278	885	mg/L	101	90	110			
L58847-02DUP	DUP	05/13/20 21:31			1.28	1.3	mg/L				2	20	RA
L58847-03AS	AS	05/13/20 22:06	WI200302-3	30	1.19	32.1	mg/L	103	90	110			
WG497158CCV3	CCV	05/13/20 23:00	WI200510-1	50		51.3	mg/L	103	90	110			
WG497158CCB3	CCB	05/13/20 23:18				U	mg/L		-0.4	0.4			
WG497158LFB2	LFB	05/14/20 1:24	WI200302-3	30		31.3	mg/L	104	90	110			
WG497158CCV4	CCV	05/14/20 2:35	WI200510-1	50		51.4	mg/L	103	90	110			
WG497158CCB4	CCB	05/14/20 2:53				U	mg/L		-0.4	0.4			
WG497158CCV5	CCV	05/14/20 5:52	WI200510-1	50		51.4	mg/L	103	90	110			
WG497158CCB5	CCB	05/14/20 6:10				U	mg/L		-0.4	0.4			
WG497158CCV6	CCV	05/14/20 10:34	WI200510-1	50		51.4	mg/L	103	90	110			
WG497158CCB6	CCB	05/14/20 10:52				U	mg/L		-0.4	0.4			
WG497158PQV1	PQV	05/14/20 11:10	WI200510-2	2.002		2.06	mg/L	103	70	130			
WG497158CCV7	CCV	05/14/20 12:21	WI200510-1	50		51.1	mg/L	102	90	110			
WG497158CCB7	CCB	05/14/20 12:39				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
WG496991													
WG496991ICV	ICV	05/11/20 16:33	MS200511-3	.05		.05149	mg/L	103	90	110			
WG496991ICB	ICB	05/11/20 16:34				U	mg/L		-0.0015	0.0015			
WG496900LRB	LRB	05/11/20 16:36				U	mg/L		-0.0011	0.0011			
WG496900LFB	LFB	05/11/20 16:38	MS200421-3	.05005		.04713	mg/L	94	85	115			
L58781-01LFM	LFM	05/11/20 16:47	MS200421-3	.05005	U	.04543	mg/L	91	70	130			
L58781-01LFMD	LFMD	05/11/20 16:49	MS200421-3	.05005	U	.04603	mg/L	92	70	130	1	20	
WG496991CCV1	CCV	05/11/20 16:54	MS200504-2	.1001		.10126	mg/L	101	90	110			
WG496991CCB1	CCB	05/11/20 16:56				U	mg/L		-0.0015	0.0015			
L58851-02LFM	LFM	05/11/20 17:12	MS200421-3	.05005	.0005	.0464	mg/L	92	70	130			
L58851-02LFMD	LFMD	05/11/20 17:14	MS200421-3	.05005	.0005	.04494	mg/L	89	70	130	3	20	
WG496991CCV2	CCV	05/11/20 17:16	MS200504-2	.1001		.10089	mg/L	101	90	110			
WG496991CCB2	CCB	05/11/20 17:18				U	mg/L		-0.0015	0.0015			
WG496991CCV3	CCV	05/11/20 17:30	MS200504-2	.1001		.10033	mg/L	100	90	110			
WG496991CCB3	CCB	05/11/20 17:32				U	mg/L		-0.0015	0.0015			

Rio Grande Silver, Inc.

ACZ Project ID: ***L58847***

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
WG497113													
WG497113ICV	ICV	05/13/20 11:32	II200423-2	2.002		1.966	mg/L	98	95	105			
WG497113ICB	ICB	05/13/20 11:38				U	mg/L		-0.03	0.03			
WG497113PQV	PQV	05/13/20 11:41	II200501-4	.05		.046	mg/L	92	70	130			
WG497113SIC	SIC	05/13/20 11:44	II200501-5	.1		.088	mg/L	88	80	120			
WG497113LFB	LFB	05/13/20 11:50	II200501-2	.5		.474	mg/L	95	85	115			
L58847-01AS	AS	05/13/20 12:14	II200501-2	.5	U	.471	mg/L	94	85	115			
L58847-01ASD	ASD	05/13/20 12:18	II200501-2	.5	U	.468	mg/L	94	85	115	1	20	
WG497113CCV1	CCV	05/13/20 12:21	II200505-1	1.001		.986	mg/L	99	90	110			
WG497113CCB1	CCB	05/13/20 12:24				U	mg/L		-0.03	0.03			
L58855-02AS	AS	05/13/20 12:54	II200501-2	.5	U	.462	mg/L	92	85	115			
WG497113CCV2	CCV	05/13/20 12:58	II200505-1	1.001		.943	mg/L	94	90	110			
WG497113CCB2	CCB	05/13/20 13:01				U	mg/L		-0.03	0.03			
L58855-02ASD	ASD	05/13/20 13:04	II200501-2	.5	U	.476	mg/L	95	85	115	3	20	
WG497113CCV3	CCV	05/13/20 13:10	II200505-1	1.001		.994	mg/L	99	90	110			
WG497113CCB3	CCB	05/13/20 13:13				U	mg/L		-0.03	0.03			

Cobalt, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG497102													
WG497102ICV	ICV	05/13/20 9:20	II200423-2	2.002		1.981	mg/L	99	95	105			
WG497102ICB	ICB	05/13/20 9:26				U	mg/L		-0.03	0.03			
WG497102PQV	PQV	05/13/20 9:30	II200501-4	.05		.048	mg/L	96	70	130			
WG497102SIC	SIC	05/13/20 9:33	II200501-5	.1		.09	mg/L	90	80	120			
WG497010LRB	LRB	05/13/20 9:39				U	mg/L		-0.022	0.022			
WG497010LFB	LFB	05/13/20 9:42	II200501-2	.5		.545	mg/L	109	85	115			
WG497102CCV1	CCV	05/13/20 10:10	II200505-1	1.001		1.003	mg/L	100	90	110			
WG497102CCB1	CCB	05/13/20 10:13				U	mg/L		-0.03	0.03			
WG497102CCV2	CCV	05/13/20 10:47	II200505-1	1.001		.998	mg/L	100	90	110			
WG497102CCB2	CCB	05/13/20 10:50				U	mg/L		-0.03	0.03			
L58847-06LFM	LFM	05/13/20 10:53	II200501-2	.5	U	.486	mg/L	97	70	130			
L58847-06LFMD	LFMD	05/13/20 10:56	II200501-2	.5	U	.489	mg/L	98	70	130	1	20	
WG497102CCV3	CCV	05/13/20 11:12	II200505-1	1.001		1.015	mg/L	101	90	110			
WG497102CCB3	CCB	05/13/20 11:15				U	mg/L		-0.03	0.03			

Copper, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG497161													
WG497161ICV	ICV	05/13/20 16:18	MS200511-3	.05		.0521	mg/L	104	90	110			
WG497161ICB	ICB	05/13/20 16:20				U	mg/L		-0.00176	0.00176			
WG497161LFB	LFB	05/13/20 16:22	MS200421-3	.0501		.0448	mg/L	89	85	115			
L58847-01AS	AS	05/13/20 16:34	MS200421-3	.0501	.0042	.04896	mg/L	89	70	130			
L58847-01ASD	ASD	05/13/20 16:36	MS200421-3	.0501	.0042	.04962	mg/L	91	70	130	1	20	
WG497161CCV1	CCV	05/13/20 16:40	MS200513-3	.2505		.24144	mg/L	96	90	110			
WG497161CCB1	CCB	05/13/20 16:41				U	mg/L		-0.0024	0.0024			
WG497161CCV2	CCV	05/13/20 17:01	MS200513-3	.2505		.24452	mg/L	98	90	110			
WG497161CCB2	CCB	05/13/20 17:03				U	mg/L		-0.0024	0.0024			
WG497161CCV3	CCV	05/13/20 17:14	MS200513-3	.2505		.2463	mg/L	98	90	110			
WG497161CCB3	CCB	05/13/20 17:16				U	mg/L		-0.0024	0.0024			

Rio Grande Silver, Inc.

ACZ Project ID: ***L58847***

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
WG496991													
WG496991ICV	ICV	05/11/20 16:33	MS200511-3	.05		.04907	mg/L	98	90	110			
WG496991ICB	ICB	05/11/20 16:34				U	mg/L		-0.0024	0.0024			
WG496900LRB	LRB	05/11/20 16:36				U	mg/L		-0.00176	0.00176			
WG496900LFB	LFB	05/11/20 16:38	MS200421-3	.0501		.04566	mg/L	91	85	115			
L58781-01LFM	LFM	05/11/20 16:47	MS200421-3	.0501	U	.04013	mg/L	80	70	130			
L58781-01LFMD	LFMD	05/11/20 16:49	MS200421-3	.0501	U	.04081	mg/L	81	70	130	2	20	
WG496991CCV1	CCV	05/11/20 16:54	MS200504-2	.2505		.25099	mg/L	100	90	110			
WG496991CCB1	CCB	05/11/20 16:56				U	mg/L		-0.0024	0.0024			
L58851-02LFM	LFM	05/11/20 17:12	MS200421-3	.0501	.0101	.04935	mg/L	78	70	130			
L58851-02LFMD	LFMD	05/11/20 17:14	MS200421-3	.0501	.0101	.04834	mg/L	76	70	130	2	20	
WG496991CCV2	CCV	05/11/20 17:16	MS200504-2	.2505		.25146	mg/L	100	90	110			
WG496991CCB2	CCB	05/11/20 17:18				U	mg/L		-0.0024	0.0024			
WG496991CCV3	CCV	05/11/20 17:30	MS200504-2	.2505		.24725	mg/L	99	90	110			
WG496991CCB3	CCB	05/11/20 17:32				U	mg/L		-0.0024	0.0024			

Rio Grande Silver, Inc.

ACZ Project ID: ***L58847***

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.

Fluoride SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG497112													
WG497112ICV	ICV	05/13/20 10:34	WC200509-2	2.002		2.12	mg/L	106	90	110			
WG497112ICB	ICB	05/13/20 10:38				U	mg/L		-0.3	0.3			
WG497157													
WG497157ICV	ICV	05/13/20 15:26	WC200509-2	2.002		2.21	mg/L	110	90	110			
WG497157ICB	ICB	05/13/20 15:34				U	mg/L		-0.3	0.3			
WG497157PQV	PQV	05/13/20 15:50	WC200502-2	.3507		.41	mg/L	117	70	130			
WG497157LFB1	LFB	05/13/20 15:53	WC200511-1	5		4.96	mg/L	99	90	110			
WG497157CCV1	CCV	05/13/20 16:37	WC200509-2	2.002		2.16	mg/L	108	90	110			
WG497157CCB1	CCB	05/13/20 16:45				U	mg/L		-0.3	0.3			
WG497157CCV2	CCV	05/13/20 17:34	WC200509-2	2.002		2.16	mg/L	108	90	110			
WG497157CCB2	CCB	05/13/20 17:41				U	mg/L		-0.3	0.3			
WG497157LFB2	LFB	05/13/20 18:02	WC200511-1	5		4.89	mg/L	98	90	110			
WG497157CCV3	CCV	05/13/20 18:24	WC200509-2	2.002		2.19	mg/L	109	90	110			
WG497157CCB3	CCB	05/13/20 18:28				.14	mg/L		-0.3	0.3			
WG497157CCV4	CCV	05/13/20 19:08	WC200509-2	2.002		2.17	mg/L	108	90	110			
WG497157CCB4	CCB	05/13/20 19:14				U	mg/L		-0.3	0.3			
L58847-02AS	AS	05/13/20 19:44	WC200511-1	5	.2	4.91	mg/L	94	90	110			
L58847-02ASD	ASD	05/13/20 19:47	WC200511-1	5	.2	4.91	mg/L	94	90	110	0	20	
WG497157CCV5	CCV	05/13/20 19:51	WC200509-2	2.002		2.17	mg/L	108	90	110			
WG497157CCB5	CCB	05/13/20 19:58				U	mg/L		-0.3	0.3			
WG497226													
WG497226ICV	ICV	05/14/20 11:27	WC200509-2	2.002		2.15	mg/L	107	90	110			
WG497226ICB	ICB	05/14/20 11:32				U	mg/L		-0.3	0.3			
WG497249													
WG497249ICV	ICV	05/14/20 14:40	WC200509-2	2.002		2.09	mg/L	104	90	110			
WG497249ICB	ICB	05/14/20 14:45				U	mg/L		-0.3	0.3			
WG497249PQV	PQV	05/14/20 14:48	WC200502-2	.3507		.39	mg/L	111	70	130			
WG497249LFB1	LFB	05/14/20 14:51	WC200511-1	5		5.07	mg/L	101	90	110			
WG497249CCV1	CCV	05/14/20 15:38	WC200509-2	2.002		2.15	mg/L	107	90	110			
WG497249CCB1	CCB	05/14/20 15:43				U	mg/L		-0.3	0.3			
WG497249CCB2	CCB	05/14/20 16:28				U	mg/L		-0.3	0.3			
L58853-06AS	AS	05/14/20 16:55	WC200511-1	5	24.2	27.35	mg/L	63	90	110			M2
L58853-06ASD	ASD	05/14/20 17:02	WC200511-1	5	24.2	27.35	mg/L	63	90	110	0	20	M2
WG497249LFB2	LFB	05/14/20 17:07	WC200511-1	5		4.63	mg/L	93	90	110			
WG497249CCB3	CCB	05/14/20 17:34				.11	mg/L		-0.3	0.3			
WG497249CCB4	CCB	05/14/20 18:15				U	mg/L		-0.3	0.3			
WG497249CCB5	CCB	05/14/20 18:55				U	mg/L		-0.3	0.3			

Rio Grande Silver, Inc.

ACZ Project ID: ***L58847***

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
WG497113													
WG497113ICV	ICV	05/13/20 11:32	II200423-2	2		1.926	mg/L	96	95	105			
WG497113ICB	ICB	05/13/20 11:38				U	mg/L		-0.18	0.18			
WG497113PQV	PQV	05/13/20 11:41	II200501-4	.15027		.138	mg/L	92	70	130			
WG497113SIC	SIC	05/13/20 11:44	II200501-5	200.51027		189	mg/L	94	1	200			
WG497113LFB	LFB	05/13/20 11:50	II200501-2	1.0018		.963	mg/L	96	85	115			
L58847-01AS	AS	05/13/20 12:14	II200501-2	1.0018	.14	1.198	mg/L	106	85	115			
L58847-01ASD	ASD	05/13/20 12:18	II200501-2	1.0018	.14	1.276	mg/L	113	85	115	6	20	
WG497113CCV1	CCV	05/13/20 12:21	II200505-1	1		.957	mg/L	96	90	110			
WG497113CCB1	CCB	05/13/20 12:24				U	mg/L		-0.18	0.18			
L58855-02AS	AS	05/13/20 12:54	II200501-2	1.0018	.5	1.536	mg/L	103	85	115			
WG497113CCV2	CCV	05/13/20 12:58	II200505-1	1		.92	mg/L	92	90	110			
WG497113CCB2	CCB	05/13/20 13:01				U	mg/L		-0.18	0.18			
L58855-02ASD	ASD	05/13/20 13:04	II200501-2	1.0018	.5	1.482	mg/L	98	85	115	4	20	
WG497113CCV3	CCV	05/13/20 13:10	II200505-1	1		.955	mg/L	96	90	110			
WG497113CCB3	CCB	05/13/20 13:13				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
WG497102													
WG497102ICV	ICV	05/13/20 9:20	II200423-2	2		1.95	mg/L	98	95	105			
WG497102ICB	ICB	05/13/20 9:26				U	mg/L		-0.18	0.18			
WG497102PQV	PQV	05/13/20 9:30	II200501-4	.15027		.147	mg/L	98	70	130			
WG497102SIC	SIC	05/13/20 9:33	II200501-5	200.51027		193.5	mg/L	97	1	200			
WG497010LRB	LRB	05/13/20 9:39				U	mg/L		-0.132	0.132			
WG497010LFB	LFB	05/13/20 9:42	II200501-2	1.0018		1.133	mg/L	113	85	115			
WG497102CCV1	CCV	05/13/20 10:10	II200505-1	1		.982	mg/L	98	90	110			
WG497102CCB1	CCB	05/13/20 10:13				U	mg/L		-0.18	0.18			
WG497102CCV2	CCV	05/13/20 10:47	II200505-1	1		.986	mg/L	99	90	110			
WG497102CCB2	CCB	05/13/20 10:50				U	mg/L		-0.18	0.18			
L58847-06LFM	LFM	05/13/20 10:53	II200501-2	1.0018	.72	1.754	mg/L	103	70	130			
L58847-06LFMD	LFMD	05/13/20 10:56	II200501-2	1.0018	.72	1.784	mg/L	106	70	130	2	20	
WG497102CCV3	CCV	05/13/20 11:12	II200505-1	1		.994	mg/L	99	90	110			
WG497102CCB3	CCB	05/13/20 11:15				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
WG497033													
WG497033ICV	ICV	05/12/20 13:23	MS200511-3	.05		.05198	mg/L	104	90	110			
WG497033ICB	ICB	05/12/20 13:25				U	mg/L		-0.00022	0.00022			
WG497033LFB	LFB	05/12/20 13:26	MS200421-3	.05005		.04465	mg/L	89	85	115			
WG497033CCV1	CCV	05/12/20 13:44	MS200504-2	.25025		.24441	mg/L	98	90	110			
WG497033CCB1	CCB	05/12/20 13:46				U	mg/L		-0.0003	0.0003			
L58847-04AS	AS	05/12/20 14:01	MS200421-3	.05005	.001	.04653	mg/L	91	70	130			
L58847-04ASD	ASD	05/12/20 14:03	MS200421-3	.05005	.001	.04553	mg/L	89	70	130	2	20	
WG497033CCV2	CCV	05/12/20 14:06	MS200504-2	.25025		.24243	mg/L	97	90	110			
WG497033CCB2	CCB	05/12/20 14:08				U	mg/L		-0.0003	0.0003			
WG497033CCV3	CCV	05/12/20 14:19	MS200504-2	.25025		.23937	mg/L	96	90	110			
WG497033CCB3	CCB	05/12/20 14:21				U	mg/L		-0.0003	0.0003			

Rio Grande Silver, Inc.

ACZ Project ID: ***L58847***

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
WG496991													
WG496991ICV	ICV	05/11/20 16:33	MS200511-3	.05		.05039	mg/L	101	90	110			
WG496991ICB	ICB	05/11/20 16:34				U	mg/L		-0.0003	0.0003			
WG496900LRB	LRB	05/11/20 16:36				U	mg/L		-0.00022	0.00022			
WG496900LFB	LFB	05/11/20 16:38	MS200421-3	.05005		.04774	mg/L	95	85	115			
L58781-01LFM	LFM	05/11/20 16:47	MS200421-3	.05005	.0006	.05032	mg/L	99	70	130			
L58781-01LFMD	LFMD	05/11/20 16:49	MS200421-3	.05005	.0006	.0511	mg/L	101	70	130	2	20	
WG496991CCV1	CCV	05/11/20 16:54	MS200504-2	.25025		.24627	mg/L	98	90	110			
WG496991CCB1	CCB	05/11/20 16:56				U	mg/L		-0.0003	0.0003			
L58851-02LFM	LFM	05/11/20 17:12	MS200421-3	.05005	.0035	.05337	mg/L	100	70	130			
L58851-02LFMD	LFMD	05/11/20 17:14	MS200421-3	.05005	.0035	.05292	mg/L	99	70	130	1	20	
WG496991CCV2	CCV	05/11/20 17:16	MS200504-2	.25025		.2435	mg/L	97	90	110			
WG496991CCB2	CCB	05/11/20 17:18				U	mg/L		-0.0003	0.0003			
WG496991CCV3	CCV	05/11/20 17:30	MS200504-2	.25025		.24239	mg/L	97	90	110			
WG496991CCB3	CCB	05/11/20 17:32				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
WG497113													
WG497113ICV	ICV	05/13/20 11:32	II200423-2	100		97.19	mg/L	97	95	105			
WG497113ICB	ICB	05/13/20 11:38				U	mg/L		-0.6	0.6			
WG497113PQV	PQV	05/13/20 11:41	II200501-4	1		.96	mg/L	96	70	130			
WG497113SIC	SIC	05/13/20 11:44	II200501-5	201		207.5	mg/L	103	1	200			
WG497113LFB	LFB	05/13/20 11:50	II200501-2	49.99828		47.66	mg/L	95	85	115			
L58847-01AS	AS	05/13/20 12:14	II200501-2	49.99828	2.1	50.8	mg/L	97	85	115			
L58847-01ASD	ASD	05/13/20 12:18	II200501-2	49.99828	2.1	50.34	mg/L	96	85	115	1	20	
WG497113CCV1	CCV	05/13/20 12:21	II200505-1	50		47.86	mg/L	96	90	110			
WG497113CCB1	CCB	05/13/20 12:24				U	mg/L		-0.6	0.6			
L58855-02AS	AS	05/13/20 12:54	II200501-2	49.99828	36.8	82.58	mg/L	92	85	115			
WG497113CCV2	CCV	05/13/20 12:58	II200505-1	50		45.81	mg/L	92	90	110			
WG497113CCB2	CCB	05/13/20 13:01				U	mg/L		-0.6	0.6			
L58855-02ASD	ASD	05/13/20 13:04	II200501-2	49.99828	36.8	84.71	mg/L	96	85	115	3	20	
WG497113CCV3	CCV	05/13/20 13:10	II200505-1	50		47.58	mg/L	95	90	110			
WG497113CCB3	CCB	05/13/20 13:13				U	mg/L		-0.6	0.6			

Rio Grande Silver, Inc.

ACZ Project ID: ***L58847***

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

Manganese, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG497113													
WG497113ICV	ICV	05/13/20 11:32	II200423-2	2		1.942	mg/L	97	95	105			
WG497113ICB	ICB	05/13/20 11:38				U	mg/L		-0.03	0.03			
WG497113PQV	PQV	05/13/20 11:41	II200501-4	.0501		.046	mg/L	92	70	130			
WG497113SIC	SIC	05/13/20 11:44	II200501-5	50.2001		47.75	mg/L	95	1	200			
WG497113LFB	LFB	05/13/20 11:50	II200501-2	.5015		.481	mg/L	96	85	115			
L58847-01AS	AS	05/13/20 12:14	II200501-2	.5015	U	.487	mg/L	97	85	115			
L58847-01ASD	ASD	05/13/20 12:18	II200501-2	.5015	U	.48	mg/L	96	85	115	1	20	
WG497113CCV1	CCV	05/13/20 12:21	II200505-1	1		.971	mg/L	97	90	110			
WG497113CCB1	CCB	05/13/20 12:24				U	mg/L		-0.03	0.03			
L58855-02AS	AS	05/13/20 12:54	II200501-2	.5015	.03	.507	mg/L	95	85	115			
WG497113CCV2	CCV	05/13/20 12:58	II200505-1	1		.932	mg/L	93	90	110			
WG497113CCB2	CCB	05/13/20 13:01				U	mg/L		-0.03	0.03			
L58855-02ASD	ASD	05/13/20 13:04	II200501-2	.5015	.03	.524	mg/L	99	85	115	3	20	
WG497113CCV3	CCV	05/13/20 13:10	II200505-1	1		.968	mg/L	97	90	110			
WG497113CCB3	CCB	05/13/20 13:13				U	mg/L		-0.03	0.03			

Manganese, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG497102													
WG497102ICV	ICV	05/13/20 9:20	II200423-2	2		1.922	mg/L	96	95	105			
WG497102ICB	ICB	05/13/20 9:26				U	mg/L		-0.03	0.03			
WG497102PQV	PQV	05/13/20 9:30	II200501-4	.0501		.045	mg/L	90	70	130			
WG497102SIC	SIC	05/13/20 9:33	II200501-5	50.2001		45.65	mg/L	91	1	200			
WG497010LRB	LRB	05/13/20 9:39				U	mg/L		-0.022	0.022			
WG497010LFB	LFB	05/13/20 9:42	II200501-2	.5015		.536	mg/L	107	85	115			
WG497102CCV1	CCV	05/13/20 10:10	II200505-1	1		.934	mg/L	93	90	110			
WG497102CCB1	CCB	05/13/20 10:13				U	mg/L		-0.03	0.03			
WG497102CCV2	CCV	05/13/20 10:47	II200505-1	1		.923	mg/L	92	90	110			
WG497102CCB2	CCB	05/13/20 10:50				U	mg/L		-0.03	0.03			
L58847-06LFM	LFM	05/13/20 10:53	II200501-2	.5015	U	.469	mg/L	94	70	130			
L58847-06LFMD	LFMD	05/13/20 10:56	II200501-2	.5015	U	.475	mg/L	95	70	130	1	20	
WG497102CCV3	CCV	05/13/20 11:12	II200505-1	1		.937	mg/L	94	90	110			
WG497102CCB3	CCB	05/13/20 11:15				U	mg/L		-0.03	0.03			

Rio Grande Silver, Inc.

ACZ Project ID: ***L58847***

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

Mercury, total M1631E, Atomic Fluorescence

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG496361													
WG496361ICV	ICV	04/30/20 10:14	HG200206-4	10		10.4	ng/L	104	79	121			
WG496361ICB	ICB	04/30/20 10:18				U	ng/L		-0.75	0.75			
WG497004													
WG497004CCV1	CCV	05/12/20 5:05	HG200508-4	10		9.38	ng/L	94	76.5	123.4			
WG497004CCB1	CCB	05/12/20 5:10				U	ng/L		-0.75	0.75			
WG497004PQV	PQV	05/12/20 5:14	HG200508-6	1		1.18	ng/L	118	70	130			
WG497004LFB	LFB	05/12/20 5:19	HG200508-5	2		1.94	ng/L	97	71	125			
WG497004CCV2	CCV	05/12/20 6:06	HG200508-4	10		8.83	ng/L	88	76.5	123.4			
WG497004CCB2	CCB	05/12/20 6:11				U	ng/L		-0.75	0.75			
WG497004CCV3	CCV	05/12/20 7:03	HG200508-4	10		8.63	ng/L	86	76.5	123.4			
WG497004CCB3	CCB	05/12/20 7:08				U	ng/L		-0.75	0.75			
L58847-04MS	MS	05/12/20 7:27	HG200508-5	2	5.9	8.54	ng/L	132	71	125			M1 MH
L58847-04MSD	MSD	05/12/20 7:32	HG200508-5	2	5.9	8.65	ng/L	138	71	125	1	24	M1 MH
WG497004CCV4	CCV	05/12/20 7:46	HG200508-4	10		9.13	ng/L	91	76.5	123.4			
WG497004CCB4	CCB	05/12/20 7:51				U	ng/L		-0.75	0.75			

Nickel, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG497113													
WG497113ICV	ICV	05/13/20 11:32	II200423-2	2		1.9795	mg/L	99	95	105			
WG497113ICB	ICB	05/13/20 11:38				U	mg/L		-0.024	0.024			
WG497113PQV	PQV	05/13/20 11:41	II200501-4	.04008		.0428	mg/L	107	70	130			
WG497113SIC	SIC	05/13/20 11:44	II200501-5	.1002		.0995	mg/L	99	80	120			
WG497113LFB	LFB	05/13/20 11:50	II200501-2	.501		.4904	mg/L	98	85	115			
L58847-01AS	AS	05/13/20 12:14	II200501-2	.501	U	.4898	mg/L	98	85	115			
L58847-01ASD	ASD	05/13/20 12:18	II200501-2	.501	U	.4822	mg/L	96	85	115	2	20	
WG497113CCV1	CCV	05/13/20 12:21	II200505-1	1		.9976	mg/L	100	90	110			
WG497113CCB1	CCB	05/13/20 12:24				U	mg/L		-0.024	0.024			
L58855-02AS	AS	05/13/20 12:54	II200501-2	.501	U	.4801	mg/L	96	85	115			
WG497113CCV2	CCV	05/13/20 12:58	II200505-1	1		.9646	mg/L	96	90	110			
WG497113CCB2	CCB	05/13/20 13:01				U	mg/L		-0.024	0.024			
L58855-02ASD	ASD	05/13/20 13:04	II200501-2	.501	U	.4945	mg/L	99	85	115	3	20	
WG497113CCV3	CCV	05/13/20 13:10	II200505-1	1		1.003	mg/L	100	90	110			
WG497113CCB3	CCB	05/13/20 13:13				U	mg/L		-0.024	0.024			

Rio Grande Silver, Inc. ACZ Project ID: ***L58847***

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, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG497102													
WG497102ICV	ICV	05/13/20 9:20	II200423-2	2		1.945	mg/L	97	95	105			
WG497102ICB	ICB	05/13/20 9:26				U	mg/L		-0.024	0.024			
WG497102PQV	PQV	05/13/20 9:30	II200501-4	.04008		.0402	mg/L	100	70	130			
WG497102SIC	SIC	05/13/20 9:33	II200501-5	.1002		.0929	mg/L	93	80	120			
WG497010LRB	LRB	05/13/20 9:39				U	mg/L		-0.0176	0.0176			
WG497010LFB	LFB	05/13/20 9:42	II200501-2	.501		.5344	mg/L	107	85	115			
WG497102CCV1	CCV	05/13/20 10:10	II200505-1	1		.9647	mg/L	96	90	110			
WG497102CCB1	CCB	05/13/20 10:13				U	mg/L		-0.024	0.024			
WG497102CCV2	CCV	05/13/20 10:47	II200505-1	1		.9578	mg/L	96	90	110			
WG497102CCB2	CCB	05/13/20 10:50				U	mg/L		-0.024	0.024			
L58847-06LFM	LFM	05/13/20 10:53	II200501-2	.501	U	.4716	mg/L	94	70	130			
L58847-06LFMD	LFMD	05/13/20 10:56	II200501-2	.501	U	.4748	mg/L	95	70	130	1	20	
WG497102CCV3	CCV	05/13/20 11:12	II200505-1	1		.9749	mg/L	97	90	110			
WG497102CCB3	CCB	05/13/20 11:15				U	mg/L		-0.024	0.024			

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
WG496891													
WG496891ICV	ICV	05/08/20 22:02	WI200213-7	2.416		2.502	mg/L	104	90	110			
WG496891ICB	ICB	05/08/20 22:04				U	mg/L		-0.02	0.02			
WG496891LFB	LFB	05/08/20 22:08	WI200331-15	2		2.074	mg/L	104	90	110			
L58847-01AS	AS	05/08/20 22:10	WI200331-15	2	.93	2.883	mg/L	98	90	110			
L58847-02DUP	DUP	05/08/20 22:13			.6	.611	mg/L				2	20	
WG496891CCV1	CCV	05/08/20 22:18	WI200502-1	2		2	mg/L	100	90	110			
WG496891CCB1	CCB	05/08/20 22:20				U	mg/L		-0.02	0.02			
WG496891CCV2	CCV	05/08/20 22:34	WI200502-1	2		1.989	mg/L	99	90	110			
WG496891CCB2	CCB	05/08/20 22:37				U	mg/L		-0.02	0.02			
WG496891CCV3	CCV	05/08/20 22:50	WI200502-1	2		2.001	mg/L	100	90	110			
WG496891CCB3	CCB	05/08/20 22:53				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
WG496891													
WG496891ICV	ICV	05/08/20 22:02	WI200213-7	.609		.629	mg/L	103	90	110			
WG496891ICB	ICB	05/08/20 22:04				U	mg/L		-0.01	0.01			
WG496891LFB	LFB	05/08/20 22:08	WI200331-15	1		1.028	mg/L	103	90	110			
L58847-01AS	AS	05/08/20 22:10	WI200331-15	1	U	.996	mg/L	100	90	110			
L58847-02DUP	DUP	05/08/20 22:13			U	U	mg/L				0	20	RA
WG496891CCV1	CCV	05/08/20 22:18	WI200502-1	1		.989	mg/L	99	90	110			
WG496891CCB1	CCB	05/08/20 22:20				U	mg/L		-0.01	0.01			
WG496891CCV2	CCV	05/08/20 22:34	WI200502-1	1		.988	mg/L	99	90	110			
WG496891CCB2	CCB	05/08/20 22:37				U	mg/L		-0.01	0.01			
WG496891CCV3	CCV	05/08/20 22:50	WI200502-1	1		.991	mg/L	99	90	110			
WG496891CCB3	CCB	05/08/20 22:53				U	mg/L		-0.01	0.01			

Rio Grande Silver, Inc.

ACZ Project ID: ***L58847***

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
WG497217													
WG497217ICV	ICV	05/16/20 10:43	WI200327-4	12.012		11.464	mg/L	95	90	110			
WG497217ICB	ICB	05/16/20 10:45				U	mg/L		-0.05	0.05			
WG497217LFB1	LFB	05/16/20 10:46	WI191111-3	10		9.252	mg/L	93	90	110			
WG497217CCV1	CCV	05/16/20 11:01	WI200513-1	10		9.283	mg/L	93	90	110			
WG497217CCB1	CCB	05/16/20 11:02				U	mg/L		-0.05	0.05			
WG497217ICV1	ICV	05/16/20 12:15	WI200327-4	12.012		11.929	mg/L	99	90	110			
WG497217ICB1	ICB	05/16/20 12:16				U	mg/L		-0.05	0.05			
WG497217CCV5	CCV	05/16/20 12:32	WI200513-1	10		9.627	mg/L	96	90	110			
WG497217CCB5	CCB	05/16/20 12:34				U	mg/L		-0.05	0.05			
WG497217CCV6	CCV	05/16/20 12:50	WI200513-1	10		9.938	mg/L	99	90	110			
WG497217CCB6	CCB	05/16/20 12:51				U	mg/L		-0.05	0.05			
L58864-03AS	AS	05/16/20 13:00	WI191111-3	10	U	9.692	mg/L	97	90	110			
L58864-04DUP	DUP	05/16/20 13:03			U	U	mg/L				0	20	RA
WG497217LFB2	LFB	05/16/20 13:05	WI191111-3	10		10.147	mg/L	101	90	110			
WG497217CCV7	CCV	05/16/20 13:09	WI200513-1	10		9.887	mg/L	99	90	110			
WG497217CCB7	CCB	05/16/20 13:11				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
WG497086													
WG497086ICV	ICV	05/12/20 23:45	WI200429-4	4		4.29	mg/L	107	90	110			
WG497086ICB	ICB	05/12/20 23:46				U	mg/L		-0.2	0.2			
WG497044LRB1	LRB	05/12/20 23:47				U	mg/L		-0.2	0.2			
WG497044LFB1	LFB	05/12/20 23:48	WI200229-6	2.5		2.65	mg/L	106	90	110			
WG497086CCV1	CCV	05/12/20 23:59	WI200429-2	2.5		2.46	mg/L	98	90	110			
WG497086CCB1	CCB	05/13/20 0:00				U	mg/L		-0.2	0.2			
L58809-03DUP	DUP	05/13/20 0:06			2.4	2.41	mg/L				0	20	
L58847-01LFM	LFM	05/13/20 0:09	WI200229-6	2.5	.3	3	mg/L	108	90	110			
WG497086CCV2	CCV	05/13/20 0:12	WI200429-2	2.5		2.5	mg/L	100	90	110			
WG497086CCB2	CCB	05/13/20 0:13				U	mg/L		-0.2	0.2			
WG497044LRB2	LRB	05/13/20 0:21				U	mg/L		-0.2	0.2			
WG497044LFB2	LFB	05/13/20 0:22	WI200229-6	2.5		2.52	mg/L	101	90	110			
WG497086CCV3	CCV	05/13/20 0:26	WI200429-2	2.5		2.54	mg/L	102	90	110			
WG497086CCB3	CCB	05/13/20 0:27				U	mg/L		-0.2	0.2			
WG497086CCV4	CCV	05/13/20 0:41	WI200429-2	2.5		2.58	mg/L	103	90	110			
WG497086CCB4	CCB	05/13/20 0:42				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
WG496890													
WG496890LCSW1	LCSW	05/08/20 18:13	PCN59370	6		6	units	100	5.9	6.1			
L58855-04DUP	DUP	05/08/20 21:13			8.2	8.2	units				0	20	
WG496890LCSW4	LCSW	05/08/20 21:17	PCN59370	6		6.1	units	102	5.9	6.1			
WG496890LCSW7	LCSW	05/09/20 0:58	PCN59370	6		6.1	units	102	5.9	6.1			

Rio Grande Silver, Inc.

ACZ Project ID: ***L58847***

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
WG497068													
WG497068ICV	ICV	05/12/20 15:12	WI200429-13	.65228		.709	mg/L	109	90	110			
WG497068ICB	ICB	05/12/20 15:15				U	mg/L		-0.01	0.01			
WG497017LRB	LRB	05/12/20 15:16				U	mg/L		-0.01	0.01			
WG497017LFB	LFB	05/12/20 15:17	WI200505-10	.5		.525	mg/L	105	90	110			
WG497068CCV1	CCV	05/12/20 15:27	WI200429-11	.5		.492	mg/L	98	90	110			
WG497068CCB1	CCB	05/12/20 15:28				U	mg/L		-0.01	0.01			
L58779-01DUP	DUP	05/12/20 15:37			.64	.664	mg/L				4	20	
WG497068CCV2	CCV	05/12/20 15:40	WI200429-11	.5		.495	mg/L	99	90	110			
WG497068CCB2	CCB	05/12/20 15:41				U	mg/L		-0.01	0.01			
L58778-01LFM	LFM	05/12/20 15:51	WI200505-10	.5	4.32	4.792	mg/L	94	90	110			
WG497068CCV3	CCV	05/12/20 15:53	WI200429-11	.5		.506	mg/L	101	90	110			
WG497068CCB3	CCB	05/12/20 15:54				U	mg/L		-0.01	0.01			
WG497068CCV4	CCV	05/12/20 15:58	WI200429-11	.5		.506	mg/L	101	90	110			
WG497068CCB4	CCB	05/12/20 15:59				U	mg/L		-0.01	0.01			
WG497287													
WG497287ICV	ICV	05/15/20 11:22	WI200429-13	.65228		.642	mg/L	98	90	110			
WG497287ICB	ICB	05/15/20 11:25				U	mg/L		-0.01	0.01			
WG497300													
WG497300CCV1	CCV	05/15/20 11:50	WI200429-11	.5		.492	mg/L	98	90	110			
WG497300CCB1	CCB	05/15/20 11:51				U	mg/L		-0.01	0.01			
WG497231LFB	LFB	05/15/20 11:53	WI200505-10	.5		.519	mg/L	104	90	110			
L58847-04LFM	LFM	05/15/20 11:56	WI200505-10	.5	.14	.668	mg/L	106	90	110			
L58847-06DUP	DUP	05/15/20 11:59			.09	.084	mg/L				7	20	RA
WG497231LRB	LRB	05/15/20 12:02				U	mg/L		-0.01	0.01			
WG497300CCV2	CCV	05/15/20 12:03	WI200429-11	.5		.489	mg/L	98	90	110			
WG497300CCB2	CCB	05/15/20 12:04				U	mg/L		-0.01	0.01			
WG497300CCV3	CCV	05/15/20 12:17	WI200429-11	.5		.487	mg/L	97	90	110			
WG497300CCB3	CCB	05/15/20 12:18				U	mg/L		-0.01	0.01			
WG497300CCV4	CCV	05/15/20 12:32	WI200429-11	.5		.488	mg/L	98	90	110			
WG497300CCB4	CCB	05/15/20 12:33				U	mg/L		-0.01	0.01			
WG497635													
WG497635ICV	ICV	05/20/20 23:30	WI200429-13	.65228		.645	mg/L	99	90	110			
WG497635ICB	ICB	05/20/20 23:32				U	mg/L		-0.01	0.01			
WG497637													
WG497637CCV	CCV	05/21/20 0:32	WI200429-11	.5		.485	mg/L	97	90	110			
WG497637CCB	CCB	05/21/20 0:33				U	mg/L		-0.01	0.01			
WG497017LRB	LRB	05/21/20 0:35				U	mg/L		-0.01	0.01			
WG497017LFB	LFB	05/21/20 0:36	WI200505-10	.5		.498	mg/L	100	90	110			
L58778-01LFM	LFM	05/21/20 0:38	WI200505-10	.5	4.6	5.17	mg/L	114	90	110			M3
L58779-01DUP	DUP	05/21/20 0:40			.64	.655	mg/L				2	20	
WG497637CCV1	CCV	05/21/20 0:44	WI200429-11	.5		.488	mg/L	98	90	110			
WG497637CCB1	CCB	05/21/20 0:45				U	mg/L		-0.01	0.01			

Rio Grande Silver, Inc.

ACZ Project ID: ***L58847***

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

Potassium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG497113													
WG497113ICV	ICV	05/13/20 11:32	II200423-2	20		19.86	mg/L	99	95	105			
WG497113ICB	ICB	05/13/20 11:38				U	mg/L		-0.6	0.6			
WG497113PQV	PQV	05/13/20 11:41	II200501-4	1		.98	mg/L	98	70	130			
WG497113SIC	SIC	05/13/20 11:44	II200501-5	1		.99	mg/L	99	80	120			
WG497113LFB	LFB	05/13/20 11:50	II200501-2	99.96426		107.9	mg/L	108	85	115			
L58847-01AS	AS	05/13/20 12:14	II200501-2	99.96426	1.8	112	mg/L	110	85	115			
L58847-01ASD	ASD	05/13/20 12:18	II200501-2	99.96426	1.8	111.1	mg/L	109	85	115	1	20	
WG497113CCV1	CCV	05/13/20 12:21	II200505-1	10		9.89	mg/L	99	90	110			
WG497113CCB1	CCB	05/13/20 12:24				U	mg/L		-0.6	0.6			
L58855-02AS	AS	05/13/20 12:54	II200501-2	99.96426	6.9	114.7	mg/L	108	85	115			
WG497113CCV2	CCV	05/13/20 12:58	II200505-1	10		9.5	mg/L	95	90	110			
WG497113CCB2	CCB	05/13/20 13:01				U	mg/L		-0.6	0.6			
L58855-02ASD	ASD	05/13/20 13:04	II200501-2	99.96426	6.9	118	mg/L	111	85	115	3	20	
WG497113CCV3	CCV	05/13/20 13:10	II200505-1	10		9.82	mg/L	98	90	110			
WG497113CCB3	CCB	05/13/20 13:13				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
WG496817													
WG496817PBW	PBW	05/07/20 20:45				U	mg/L		-20	20			
WG496817LCSW	LCSW	05/07/20 20:47	PCN61091	1000		1010	mg/L	101	80	120			
L58847-04DUP	DUP	05/07/20 21:16			126	124	mg/L				2	10	RA
L58851-02DUP	DUP	05/07/20 21:45			1820	1830	mg/L				1	10	

Residue, Non-Filterable (TSS) @105C SM2540D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG496816													
WG496816PBW	PBW	05/07/20 19:30				U	mg/L		-5	5			
WG496816LCSW	LCSW	05/07/20 19:32	PCN61091	100		92	mg/L	92	80	120			
L58857-02DUP	DUP	05/07/20 20:30			U	U	mg/L				0	10	RA
WG496892													
WG496892PBW	PBW	05/08/20 20:20				U	mg/L		-5	5			
WG496892LCSW	LCSW	05/08/20 20:22	PCN61091	100		110	mg/L	110	80	120			
L58880-02DUP	DUP	05/08/20 20:46			23	25	mg/L				8	10	RA

Rio Grande Silver, Inc.

ACZ Project ID: ***L58847***

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.

Selenium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG497033													
WG497033ICV	ICV	05/12/20 13:23	MS200511-3	.05		.0512	mg/L	102	90	110			
WG497033ICB	ICB	05/12/20 13:25				U	mg/L		-0.00022	0.00022			
WG497033LFB	LFB	05/12/20 13:26	MS200421-3	.05		.04364	mg/L	87	85	115			
WG497033CCV1	CCV	05/12/20 13:44	MS200504-2	.25		.24362	mg/L	97	90	110			
WG497033CCB1	CCB	05/12/20 13:46				.00015	mg/L		-0.0003	0.0003			
L58847-04AS	AS	05/12/20 14:01	MS200421-3	.05	.0001	.04881	mg/L	97	70	130			
L58847-04ASD	ASD	05/12/20 14:03	MS200421-3	.05	.0001	.04834	mg/L	96	70	130	1	20	
WG497033CCV2	CCV	05/12/20 14:06	MS200504-2	.25		.24379	mg/L	98	90	110			
WG497033CCB2	CCB	05/12/20 14:08				.00015	mg/L		-0.0003	0.0003			
WG497033CCV3	CCV	05/12/20 14:19	MS200504-2	.25		.2331	mg/L	93	90	110			
WG497033CCB3	CCB	05/12/20 14:21				.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
WG496991													
WG496991ICV	ICV	05/11/20 16:33	MS200511-3	.05		.05061	mg/L	101	90	110			
WG496991ICB	ICB	05/11/20 16:34				U	mg/L		-0.0003	0.0003			
WG496900LRB	LRB	05/11/20 16:36				U	mg/L		-0.00022	0.00022			
WG496900LFB	LFB	05/11/20 16:38	MS200421-3	.05		.04735	mg/L	95	85	115			
L58781-01LFM	LFM	05/11/20 16:47	MS200421-3	.05	.0003	.04814	mg/L	96	70	130			
L58781-01LFMD	LFMD	05/11/20 16:49	MS200421-3	.05	.0003	.0491	mg/L	98	70	130	2	20	
WG496991CCV1	CCV	05/11/20 16:54	MS200504-2	.25		.24857	mg/L	99	90	110			
WG496991CCB1	CCB	05/11/20 16:56				U	mg/L		-0.0003	0.0003			
L58851-02LFM	LFM	05/11/20 17:12	MS200421-3	.05	.0002	.04947	mg/L	99	70	130			
L58851-02LFMD	LFMD	05/11/20 17:14	MS200421-3	.05	.0002	.04751	mg/L	95	70	130	4	20	
WG496991CCV2	CCV	05/11/20 17:16	MS200504-2	.25		.24242	mg/L	97	90	110			
WG496991CCB2	CCB	05/11/20 17:18				U	mg/L		-0.0003	0.0003			
WG496991CCV3	CCV	05/11/20 17:30	MS200504-2	.25		.24315	mg/L	97	90	110			
WG496991CCB3	CCB	05/11/20 17:32				U	mg/L		-0.0003	0.0003			

Silica, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG497113													
WG497113ICV	ICV	05/13/20 11:32	II200423-2	42.8		43.54	mg/L	102	95	105			
WG497113ICB	ICB	05/13/20 11:38				U	mg/L		-0.6	0.6			
WG497113PQV	PQV	05/13/20 11:41	II200501-4	1.07075		1.07	mg/L	100	70	130			
WG497113SIC	SIC	05/13/20 11:44	II200501-5	1.07075		1.09	mg/L	102	80	120			
WG497113LFB	LFB	05/13/20 11:50	II200501-2	21.415		21.34	mg/L	100	85	115			
L58847-01AS	AS	05/13/20 12:14	II200501-2	21.415	24.6	45.82	mg/L	99	85	115			
L58847-01ASD	ASD	05/13/20 12:18	II200501-2	21.415	24.6	46.24	mg/L	101	85	115	1	20	
WG497113CCV1	CCV	05/13/20 12:21	II200505-1	21.4		21.7	mg/L	101	90	110			
WG497113CCB1	CCB	05/13/20 12:24				U	mg/L		-0.6	0.6			
L58855-02AS	AS	05/13/20 12:54	II200501-2	21.415	9.8	30.73	mg/L	98	85	115			
WG497113CCV2	CCV	05/13/20 12:58	II200505-1	21.4		20.65	mg/L	96	90	110			
WG497113CCB2	CCB	05/13/20 13:01				U	mg/L		-0.6	0.6			
L58855-02ASD	ASD	05/13/20 13:04	II200501-2	21.415	9.8	31.61	mg/L	102	85	115	3	20	
WG497113CCV3	CCV	05/13/20 13:10	II200505-1	21.4		21.6	mg/L	101	90	110			
WG497113CCB3	CCB	05/13/20 13:13				U	mg/L		-0.6	0.6			

Rio Grande Silver, Inc. ACZ Project ID: ***L58847***

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, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG497102													
WG497102ICV	ICV	05/13/20 9:20	II200423-2	42.8		43.49	mg/L	102	95	105			
WG497102ICB	ICB	05/13/20 9:26				U	mg/L		-0.6	0.6			
WG497102PQV	PQV	05/13/20 9:30	II200501-4	1.07075		1.09	mg/L	102	70	130			
WG497102SIC	SIC	05/13/20 9:33	II200501-5	1.07075		1.08	mg/L	101	80	120			
WG497010LRB	LRB	05/13/20 9:39				U	mg/L		-0.44	0.44			
WG497010LFB	LFB	05/13/20 9:42	II200501-2	21.415		24.39	mg/L	114	85	115			
WG497102CCV1	CCV	05/13/20 10:10	II200505-1	21.4		21.85	mg/L	102	90	110			
WG497102CCB1	CCB	05/13/20 10:13				U	mg/L		-0.6	0.6			
WG497102CCV2	CCV	05/13/20 10:47	II200505-1	21.4		21.84	mg/L	102	90	110			
WG497102CCB2	CCB	05/13/20 10:50				U	mg/L		-0.6	0.6			
L58847-06LFM	LFM	05/13/20 10:53	II200501-2	21.415	33	49.31	mg/L	76	70	130			
L58847-06LFMD	LFMD	05/13/20 10:56	II200501-2	21.415	33	50.3	mg/L	81	70	130	2	20	
WG497102CCV3	CCV	05/13/20 11:12	II200505-1	21.4		22.15	mg/L	104	90	110			
WG497102CCB3	CCB	05/13/20 11:15				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
WG497033													
WG497033ICV	ICV	05/12/20 13:23	MS200511-3	.02004		.02045	mg/L	102	90	110			
WG497033ICB	ICB	05/12/20 13:25				U	mg/L		-0.00022	0.00022			
WG497033LFB	LFB	05/12/20 13:26	MS200421-3	.01002		.00899	mg/L	90	85	115			
WG497033CCV1	CCV	05/12/20 13:44	MS200504-2	.025075		.02512	mg/L	100	90	110			
WG497033CCB1	CCB	05/12/20 13:46				U	mg/L		-0.0003	0.0003			
L58847-04AS	AS	05/12/20 14:01	MS200421-3	.01002	U	.00904	mg/L	90	70	130			
L58847-04ASD	ASD	05/12/20 14:03	MS200421-3	.01002	U	.00883	mg/L	88	70	130	2	20	
WG497033CCV2	CCV	05/12/20 14:06	MS200504-2	.025075		.02514	mg/L	100	90	110			
WG497033CCB2	CCB	05/12/20 14:08				U	mg/L		-0.0003	0.0003			
WG497033CCV3	CCV	05/12/20 14:19	MS200504-2	.025075		.02446	mg/L	98	90	110			
WG497033CCB3	CCB	05/12/20 14:21				U	mg/L		-0.0003	0.0003			

Silver, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG496991													
WG496991ICV	ICV	05/11/20 16:33	MS200511-3	.02004		.02005	mg/L	100	90	110			
WG496991ICB	ICB	05/11/20 16:34				U	mg/L		-0.0003	0.0003			
WG496900LRB	LRB	05/11/20 16:36				U	mg/L		-0.00022	0.00022			
WG496900LFB	LFB	05/11/20 16:38	MS200421-3	.01002		.00951	mg/L	95	85	115			
L58781-01LFM	LFM	05/11/20 16:47	MS200421-3	.01002	U	.00871	mg/L	87	70	130			
L58781-01LFMD	LFMD	05/11/20 16:49	MS200421-3	.01002	U	.00882	mg/L	88	70	130	1	20	
WG496991CCV1	CCV	05/11/20 16:54	MS200504-2	.025075		.02553	mg/L	102	90	110			
WG496991CCB1	CCB	05/11/20 16:56				U	mg/L		-0.0003	0.0003			
L58851-02LFM	LFM	05/11/20 17:12	MS200421-3	.01002	U	.00862	mg/L	86	70	130			
L58851-02LFMD	LFMD	05/11/20 17:14	MS200421-3	.01002	U	.00847	mg/L	85	70	130	2	20	
WG496991CCV2	CCV	05/11/20 17:16	MS200504-2	.025075		.02532	mg/L	101	90	110			
WG496991CCB2	CCB	05/11/20 17:18				U	mg/L		-0.0003	0.0003			
WG496991CCV3	CCV	05/11/20 17:30	MS200504-2	.025075		.02529	mg/L	101	90	110			
WG496991CCB3	CCB	05/11/20 17:32				U	mg/L		-0.0003	0.0003			

Rio Grande Silver, Inc.

ACZ Project ID: ***L58847***

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

Sodium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG497113													
WG497113ICV	ICV	05/13/20 11:32	II200423-2	100		99.61	mg/L	100	95	105			
WG497113ICB	ICB	05/13/20 11:38				U	mg/L		-0.6	0.6			
WG497113PQV	PQV	05/13/20 11:41	II200501-4	.999		1.02	mg/L	102	70	130			
WG497113SIC	SIC	05/13/20 11:44	II200501-5	.999		1.12	mg/L	112	80	120			
WG497113LFB	LFB	05/13/20 11:50	II200501-2	100.0086		97.54	mg/L	98	85	115			
L58847-01AS	AS	05/13/20 12:14	II200501-2	100.0086	3.6	104.6	mg/L	101	85	115			
L58847-01ASD	ASD	05/13/20 12:18	II200501-2	100.0086	3.6	103	mg/L	99	85	115	2	20	
WG497113CCV1	CCV	05/13/20 12:21	II200505-1	50		49.57	mg/L	99	90	110			
WG497113CCB1	CCB	05/13/20 12:24				U	mg/L		-0.6	0.6			
L58855-02AS	AS	05/13/20 12:54	II200501-2	100.0086	290	367.7	mg/L	78	85	115			MA
WG497113CCV2	CCV	05/13/20 12:58	II200505-1	50		47.9	mg/L	96	90	110			
WG497113CCB2	CCB	05/13/20 13:01				U	mg/L		-0.6	0.6			
L58855-02ASD	ASD	05/13/20 13:04	II200501-2	100.0086	290	376	mg/L	86	85	115	2	20	
WG497113CCV3	CCV	05/13/20 13:10	II200505-1	50		49.91	mg/L	100	90	110			
WG497113CCB3	CCB	05/13/20 13:13				U	mg/L		-0.6	0.6			

Sulfate M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG492433													
WG492433ICV	ICV	02/24/20 15:51	WI200224-2	50		50.5	mg/L	101	90	110			
WG492433ICB	ICB	02/24/20 16:09				U	mg/L		-0.4	0.4			
WG497158													
WG497158CCV1	CCV	05/13/20 15:50	WI200510-1	50		51.1	mg/L	102	90	110			
WG497158CCB1	CCB	05/13/20 16:08				U	mg/L		-0.4	0.4			
WG497158PQV	PQV	05/13/20 16:26	WI200510-2	2		1.82	mg/L	91	70	130			
WG497158LFB1	LFB	05/13/20 16:44	WI200302-3	30		31.2	mg/L	104	90	110			
WG497158CCV2	CCV	05/13/20 19:25	WI200510-1	50		51	mg/L	102	90	110			
WG497158CCB2	CCB	05/13/20 19:43				U	mg/L		-0.4	0.4			
L58700-03DUP	DUP	05/13/20 20:01			564	565	mg/L				0	20	
L58700-03AS	AS	05/13/20 20:19	WI200302-3	600	564	1160	mg/L	99	90	110			
L58847-02DUP	DUP	05/13/20 21:31			54.5	54.3	mg/L				0	20	
L58847-03AS	AS	05/13/20 22:06	WI200302-3	30	11.1	41.3	mg/L	101	90	110			
WG497158CCV3	CCV	05/13/20 23:00	WI200510-1	50		50.8	mg/L	102	90	110			
WG497158CCB3	CCB	05/13/20 23:18				U	mg/L		-0.4	0.4			
WG497158LFB2	LFB	05/14/20 1:24	WI200302-3	30		31	mg/L	103	90	110			
WG497158CCV4	CCV	05/14/20 2:35	WI200510-1	50		51.1	mg/L	102	90	110			
WG497158CCB4	CCB	05/14/20 2:53				U	mg/L		-0.4	0.4			
WG497158CCV5	CCV	05/14/20 5:52	WI200510-1	50		51	mg/L	102	90	110			
WG497158CCB5	CCB	05/14/20 6:10				U	mg/L		-0.4	0.4			
WG497158CCV6	CCV	05/14/20 10:34	WI200510-1	50		50.8	mg/L	102	90	110			
WG497158CCB6	CCB	05/14/20 10:52				U	mg/L		-0.4	0.4			
WG497158PQV1	PQV	05/14/20 11:10	WI200510-2	2		1.7	mg/L	85	70	130			
WG497158CCV7	CCV	05/14/20 12:21	WI200510-1	50		50.8	mg/L	102	90	110			
WG497158CCB7	CCB	05/14/20 12:39				U	mg/L		-0.4	0.4			

Rio Grande Silver, Inc. ACZ Project ID: ***L58847***

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

Sulfide as S SM4500S2-D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG497054													
WG497054ICV	ICV	05/12/20 11:42	WC200512-3	.36934		.369	mg/L	100	90	110			
WG497054ICB	ICB	05/12/20 11:45				U	mg/L		-0.06	0.06			
WG497054LFB1	LFB	05/12/20 11:48	WC200512-6	.2008933		.234	mg/L	116	80	120			
L58847-01DUP	DUP	05/12/20 11:59			U	U	mg/L				0	20	RA
L58847-01AS	AS	05/12/20 12:02	WC200512-6	.2008933	U	.134	mg/L	67	75	125			M2
WG497054CCV1	CCV	05/12/20 12:22	WC200512-4	.15067		.149	mg/L	99	90	110			
WG497054CCB1	CCB	05/12/20 12:26				U	mg/L		-0.06	0.06			
WG497054CCV2	CCV	05/12/20 13:03	WC200512-4	.15067		.149	mg/L	99	90	110			
WG497054CCB2	CCB	05/12/20 13:07				U	mg/L		-0.06	0.06			
WG497054LFB2	LFB	05/12/20 13:27	WC200512-6	.2008933		.234	mg/L	116	80	120			
WG497054CCV3	CCV	05/12/20 13:44	WC200512-4	.15067		.148	mg/L	98	90	110			
WG497054CCB3	CCB	05/12/20 13:47				U	mg/L		-0.06	0.06			
WG497054CCV4	CCV	05/12/20 14:18	WC200512-4	.15067		.148	mg/L	98	90	110			
WG497054CCB4	CCB	05/12/20 14:21				U	mg/L		-0.06	0.06			

Uranium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG497033													
WG497033ICV	ICV	05/12/20 13:23	MS200511-3	.05		.05154	mg/L	103	90	110			
WG497033ICB	ICB	05/12/20 13:25				U	mg/L		-0.00022	0.00022			
WG497033LFB	LFB	05/12/20 13:26	MS200421-3	.05		.04402	mg/L	88	85	115			
WG497033CCV1	CCV	05/12/20 13:44	MS200504-2	.1		.09573	mg/L	96	90	110			
WG497033CCB1	CCB	05/12/20 13:46				U	mg/L		-0.0003	0.0003			
L58847-04AS	AS	05/12/20 14:01	MS200421-3	.05	.0002	.04492	mg/L	89	70	130			
L58847-04ASD	ASD	05/12/20 14:03	MS200421-3	.05	.0002	.04442	mg/L	88	70	130	1	20	
WG497033CCV2	CCV	05/12/20 14:06	MS200504-2	.1		.0964	mg/L	96	90	110			
WG497033CCB2	CCB	05/12/20 14:08				U	mg/L		-0.0003	0.0003			
WG497033CCV3	CCV	05/12/20 14:19	MS200504-2	.1		.093	mg/L	93	90	110			
WG497033CCB3	CCB	05/12/20 14:21				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
WG496991													
WG496991ICV	ICV	05/11/20 16:33	MS200511-3	.05		.05098	mg/L	102	90	110			
WG496991ICB	ICB	05/11/20 16:34				U	mg/L		-0.0003	0.0003			
WG496900LRB	LRB	05/11/20 16:36				U	mg/L		-0.00022	0.00022			
WG496900LFB	LFB	05/11/20 16:38	MS200421-3	.05		.04753	mg/L	95	85	115			
L58781-01LFM	LFM	05/11/20 16:47	MS200421-3	.05	.0015	.0549	mg/L	107	70	130			
L58781-01LFMD	LFMD	05/11/20 16:49	MS200421-3	.05	.0015	.05613	mg/L	109	70	130	2	20	
WG496991CCV1	CCV	05/11/20 16:54	MS200504-2	.1		.09998	mg/L	100	90	110			
WG496991CCB1	CCB	05/11/20 16:56				U	mg/L		-0.0003	0.0003			
L58851-02LFM	LFM	05/11/20 17:12	MS200421-3	.05	.061	.1137	mg/L	105	70	130			
L58851-02LFMD	LFMD	05/11/20 17:14	MS200421-3	.05	.061	.11271	mg/L	103	70	130	1	20	
WG496991CCV2	CCV	05/11/20 17:16	MS200504-2	.1		.09667	mg/L	97	90	110			
WG496991CCB2	CCB	05/11/20 17:18				U	mg/L		-0.0003	0.0003			
WG496991CCV3	CCV	05/11/20 17:30	MS200504-2	.1		.09736	mg/L	97	90	110			
WG496991CCB3	CCB	05/11/20 17:32				U	mg/L		-0.0003	0.0003			

Rio Grande Silver, Inc.

ACZ Project ID: ***L58847***

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, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG497033													
WG497033ICV	ICV	05/12/20 13:23	MS200511-3	.05		.0505	mg/L	101	90	110			
WG497033ICB	ICB	05/12/20 13:25				U	mg/L		-0.0132	0.0132			
WG497033LFB	LFB	05/12/20 13:26	MS200421-3	.050075		.0458	mg/L	91	85	115			
WG497033CCV1	CCV	05/12/20 13:44	MS200504-2	.50075		.4862	mg/L	97	90	110			
WG497033CCB1	CCB	05/12/20 13:46				U	mg/L		-0.018	0.018			
L58847-04AS	AS	05/12/20 14:01	MS200421-3	.050075	.01	.0549	mg/L	90	70	130			
L58847-04ASD	ASD	05/12/20 14:03	MS200421-3	.050075	.01	.054	mg/L	88	70	130	2	20	
WG497033CCV2	CCV	05/12/20 14:06	MS200504-2	.50075		.4809	mg/L	96	90	110			
WG497033CCB2	CCB	05/12/20 14:08				U	mg/L		-0.018	0.018			
WG497033CCV3	CCV	05/12/20 14:19	MS200504-2	.50075		.4719	mg/L	94	90	110			
WG497033CCB3	CCB	05/12/20 14:21				U	mg/L		-0.018	0.018			

Zinc, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG496991													
WG496991ICV	ICV	05/11/20 16:33	MS200511-3	.05		.0508	mg/L	102	90	110			
WG496991ICB	ICB	05/11/20 16:34				U	mg/L		-0.018	0.018			
WG496900LRB	LRB	05/11/20 16:36				U	mg/L		-0.0132	0.0132			
WG496900LFB	LFB	05/11/20 16:38	MS200421-3	.050075		.0494	mg/L	99	85	115			
L58781-01LFM	LFM	05/11/20 16:47	MS200421-3	.050075	.009	.0525	mg/L	87	70	130			
L58781-01LFMD	LFMD	05/11/20 16:49	MS200421-3	.050075	.009	.0531	mg/L	88	70	130	1	20	
WG496991CCV1	CCV	05/11/20 16:54	MS200504-2	.50075		.5043	mg/L	101	90	110			
WG496991CCB1	CCB	05/11/20 16:56				U	mg/L		-0.018	0.018			
L58851-02LFM	LFM	05/11/20 17:12	MS200421-3	.050075	.22	.2593	mg/L	78	70	130			
L58851-02LFMD	LFMD	05/11/20 17:14	MS200421-3	.050075	.22	.2542	mg/L	68	70	130	2	20	M3
WG496991CCV2	CCV	05/11/20 17:16	MS200504-2	.50075		.4853	mg/L	97	90	110			
WG496991CCB2	CCB	05/11/20 17:18				U	mg/L		-0.018	0.018			
WG496991CCV3	CCV	05/11/20 17:30	MS200504-2	.50075		.4847	mg/L	97	90	110			
WG496991CCB3	CCB	05/11/20 17:32				U	mg/L		-0.018	0.018			

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Inorganic Extended Qualifier Report

Rio Grande Silver, Inc.

ACZ Project ID: ***L58847***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L58847-01	WG497113	Aluminum, dissolved	M200.7 ICP	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG496955	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).
	WG497215	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).
	WG497004	Mercury, total	M1631E, Atomic Fluorescence	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M1631E, Atomic Fluorescence	MH	For Method 1631E, matrix spike and matrix spike duplicate are outside method limits, sample should not be reported for compliance purposes. Client may request re-analysis on a dilution.
	WG496891	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).
	WG497217	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).
	WG496817	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).
	WG496816	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
	WG497102	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.
	WG497054	Sulfide as S	SM4500S2-D	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			SM4500S2-D	QD	Reported value is the background-corrected concentration, as described by the method.
			SM4500S2-D	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).

Rio Grande Silver, Inc. ACZ Project ID: ***L58847***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L58847-02	WG497113	Aluminum, dissolved	M200.7 ICP	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG496955	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).
	WG497215	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).
	WG497158	Chloride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG497004	Mercury, total	M1631E, Atomic Fluorescence	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M1631E, Atomic Fluorescence	MH	For Method 1631E, matrix spike and matrix spike duplicate are outside method limits, sample should not be reported for compliance purposes. Client may request re-analysis on a dilution.
	WG496891	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).
	WG497217	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).
	WG496817	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).
	WG496816	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
	WG497102	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.
	WG497054	Sulfide as S	SM4500S2-D	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			SM4500S2-D	QD	Reported value is the background-corrected concentration, as described by the method.
			SM4500S2-D	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).

Rio Grande Silver, Inc. ACZ Project ID: ***L58847***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L58847-03	WG497113	Aluminum, dissolved	M200.7 ICP	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG496955	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).
	WG497215	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).
	WG497158	Chloride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG497249	Fluoride	SM4500F-C	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG497004	Mercury, total	M1631E, Atomic Fluorescence	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M1631E, Atomic Fluorescence	MH	For Method 1631E, matrix spike and matrix spike duplicate are outside method limits, sample should not be reported for compliance purposes. Client may request re-analysis on a dilution.
	WG496891	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).
	WG497217	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).
	WG497637	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	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.
	WG496817	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).
	WG496816	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
	WG497102	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.
	WG497054	Sulfide as S	SM4500S2-D	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			SM4500S2-D	QD	Reported value is the background-corrected concentration, as described by the method.
			SM4500S2-D	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).

Rio Grande Silver, Inc. ACZ Project ID: ***L58847***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L58847-04	WG497113	Aluminum, dissolved	M200.7 ICP	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG496955	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).
	WG497215	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).
	WG497158	Chloride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG497249	Fluoride	SM4500F-C	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG497004	Mercury, total	M1631E, Atomic Fluorescence	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M1631E, Atomic Fluorescence	MH	For Method 1631E, matrix spike and matrix spike duplicate are outside method limits, sample should not be reported for compliance purposes. Client may request re-analysis on a dilution.
	WG496891	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).
	WG497217	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).
	WG497300	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).
	WG496817	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).
	WG496892	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
	WG497102	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.
	WG497054	Sulfide as S	SM4500S2-D	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			SM4500S2-D	QD	Reported value is the background-corrected concentration, as described by the method.
			SM4500S2-D	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).
	WG496991	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.
L58847-05	WG497004	Mercury, total	M1631E, Atomic Fluorescence	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M1631E, Atomic Fluorescence	MH	For Method 1631E, matrix spike and matrix spike duplicate are outside method limits, sample should not be reported for compliance purposes. Client may request re-analysis on a dilution.

Rio Grande Silver, Inc. ACZ Project ID: ***L58847***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L58847-06	WG497113	Calcium, 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.
	WG496955	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).
	WG497215	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).
	WG497158	Chloride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG497249	Fluoride	SM4500F-C	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG497004	Mercury, total	M1631E, Atomic Fluorescence	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M1631E, Atomic Fluorescence	MH	For Method 1631E, matrix spike and matrix spike duplicate are outside method limits, sample should not be reported for compliance purposes. Client may request re-analysis on a dilution.
	WG496891	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).
	WG497217	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).
	WG497300	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).
	WG496892	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
	WG497102	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.
	WG497113	Sodium, 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.
	WG497054	Sulfide as S	SM4500S2-D	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			SM4500S2-D	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).
	WG496991	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.
Project ID: BO44726
Sample ID: WG-L

ACZ Sample ID: ***L58847-01***
Date Sampled: *05/05/20 10:00*
Date Received: *05/07/20*
Sample Matrix: *Surface Water*

Oil & Grease, Total Recoverable

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

Workgroup: WG497299
Analyst: QHS
Extract Date:
Analysis Date: 05/15/20 10:30

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
Oil and Grease			U	1	*	mg/L	2	10

Rio Grande Silver, Inc.
Project ID: BO44726
Sample ID: WG-9360-B

ACZ Sample ID: ***L58847-02***
Date Sampled: *05/05/20 10:40*
Date Received: *05/07/20*
Sample Matrix: *Surface Water*

Oil & Grease, Total Recoverable

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

Workgroup: WG497299
Analyst: QHS
Extract Date:
Analysis Date: 05/15/20 10:45

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
Oil and Grease			U	1	*	mg/L	2	10

Rio Grande Silver, Inc.
Project ID: BO44726
Sample ID: WG-9700-W

ACZ Sample ID: ***L58847-03***
Date Sampled: *05/05/20 11:30*
Date Received: *05/07/20*
Sample Matrix: *Surface Water*

Oil & Grease, Total Recoverable

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

Workgroup: WG497299
Analyst: QHS
Extract Date:
Analysis Date: 05/15/20 11:00

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
Oil and Grease			U	1	*	mg/L	2	10

Rio Grande Silver, Inc.
Project ID: BO44726
Sample ID: WG-U

ACZ Sample ID: ***L58847-04***
Date Sampled: *05/05/20 12:10*
Date Received: *05/07/20*
Sample Matrix: *Surface Water*

Oil & Grease, Total Recoverable

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

Workgroup: WG497299
Analyst: QHS
Extract Date:
Analysis Date: 05/15/20 11:15

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
Oil and Grease			U	1	*	mg/L	2	10

Rio Grande Silver, Inc.
Project ID: BO44726
Sample ID: WG-1

ACZ Sample ID: ***L58847-06***
Date Sampled: *05/05/20 10:00*
Date Received: *05/07/20*
Sample Matrix: *Surface Water*

Oil & Grease, Total Recoverable

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

Workgroup: WG497299
Analyst: QHS
Extract Date:
Analysis Date: 05/15/20 11:30

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
Oil and Grease			U	1	*	mg/L	2	10

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
LCL	Lower Control Limit
MDL	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #4) Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
UCL	Upper Control Limit
Sample	Value of the Sample of interest

QC Sample Types

SURR	Surrogate	*LFB*	Laboratory Fortified Blank
INTS	Internal Standard	*LFM*	Laboratory Fortified Matrix
AS	Analytical Spike (Post Digestion)	*LFMD*	Laboratory Fortified Matrix Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	*LRB*	Laboratory Reagent Blank
DUP	Sample Duplicate	*MS/MSD*	Matrix Spike/Matrix Spike Duplicate
LCSS	Laboratory Control Sample - Soil	*PBS*	Prep Blank - Soil
LCSW	Laboratory Control Sample - Water	*PBW*	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: ***L58847***

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

WG497299

LCSW **Sample ID: WG497299LCSW** **PCN/SCN: OP200508-2** **Analyzed: 05/15/20 14:15**

Compound	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
OIL AND GREASE	40		34.7	mg/L	87.0	78	114			

LCSWD **Sample ID: WG497299LCSWD** **PCN/SCN: OP200508-2** **Analyzed: 05/15/20 14:30**

Compound	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
OIL AND GREASE	40		36.4	mg/L	91.0	78	114	5	18	

PBW **Sample ID: WG497299PBW** **Analyzed: 05/15/20 10:00**

Compound	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
OIL AND GREASE			U	mg/L						

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Organic Extended Qualifier Report

ACZ Project ID: ***L58847***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L58847-01	WG497299	Oil and Grease	1664A/B - Gravimetric	Q9	Insufficient sample received to meet method QC requirements.
L58847-02	WG497299	Oil and Grease	1664A/B - Gravimetric	Q9	Insufficient sample received to meet method QC requirements.
L58847-03	WG497299	Oil and Grease	1664A/B - Gravimetric	Q9	Insufficient sample received to meet method QC requirements.
L58847-04	WG497299	Oil and Grease	1664A/B - Gravimetric	Q9	Insufficient sample received to meet method QC requirements.
L58847-06	WG497299	Oil and Grease	1664A/B - Gravimetric	Q9	Insufficient sample received to meet method QC requirements.

Certification Qualifiers

Rio Grande Silver, Inc.

ACZ Project ID: ***L58847***

No certification qualifiers associated with this analysis

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

Rio Grande Silver, Inc.
BO44726

ACZ Project ID: L58847
Date Received: 05/07/2020 11:34
Received By:
Date Printed: 5/8/2020

Receipt Verification

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

Samples/Containers

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

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?
5071	2.8	<=6.0	14	Yes
6085	2.8	<=6.0	13	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.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

Rio Grande Silver, Inc.
BO44726

ACZ Project ID: L58847
Date Received: 05/07/2020 11:34
Received By:
Date Printed: 5/8/2020

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

ACZ Laboratories, Inc. L58847

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: rmcclure@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: rmcclure@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 [X] 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 [X]

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

Quote #:
PO#: BO44726
Reporting state for compliance testing:
Check box if samples include NRC licensed material? [ ]

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers								
WG-L	5/5/20 10:00am	SW	9								
WG-9360-B	5/5/20 10:40am	SW	9								
WG-9700-W	5/5/20 11:30am	SW	9								
WG-U	5/5/20 12:10 pm	SW	9								
~~Trip Blank~~	~~5/5/20 10:20am~~	~~SW~~	~~9~~								
Trip Blank	5/5/20 10:10 am	SW	1								
WG-1 (Mercury using 1631 samples not filtered or preserved)	5/5/20 10:00										

zme 5-7-20 sample not received

entered per container zme 5-7-20

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 rmcclure@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	5/5/20 1:05pm	zme	5-7-20 1134

L58847 Chain of Custod

FRMAD050.03.14.13 White - Return with sample. Yellow - Retain for your records.