

Figure 5

Surface water samples were collected on May 30, 2023.

Sample Locations:

- 1) WG-L
- 2) WG-9360-B
- 3) WG-9700-W
- 4) WG-U

WG-D is a field duplication of WGL

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

Windy Gulch is an ephemeral stream and typically only flows in the spring (April/May) in years when there is enough snowpack to create runoff. There was an above average snowpack in 2023 and Windy Gulch will flow into June.

July 06, 2023

Report to:

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

Bill to:

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

Project ID: BO51342

ACZ Project ID: L80780

Randy McClure:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on May 31, 2023. This project has been assigned to ACZ's project number, L80780. 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 L80780. 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 August 05, 2023. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

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



Sue Webber has reviewed and
approved this report.



Rio Grande Silver, Inc.

Project ID: BO51342

Sample ID: WG-L

ACZ Sample ID: **L80780-01**

Date Sampled: 05/30/23 10:00

Date Received: 05/31/23

Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Nitrogen, total Kjeldahl	M351.2 - Block Digestor								06/12/23 13:05	aps
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								06/09/23 14:24	lbt/mrd
Total Recoverable Digestion	M200.2 ICP								06/06/23 17:48	wtc
Total Recoverable Digestion	M200.2 ICP-MS								06/20/23 8:45	gjl

Rio Grande Silver, Inc.

Project ID: BO51342

Sample ID: WG-L

ACZ Sample ID: **L80780-01**

Date Sampled: 05/30/23 10:00

Date Received: 05/31/23

Sample Matrix: Surface Water

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	0.294			mg/L	0.05	0.25	06/07/23 3:17	keh1
Aluminum, total recoverable	M200.7 ICP	1	1.86		*	mg/L	0.05	0.25	06/08/23 12:35	wtc
Arsenic, dissolved	M200.8 ICP-MS	1	0.0260			mg/L	0.0002	0.001	06/13/23 15:03	gjl/scp
Arsenic, total recoverable	M200.8 ICP-MS	1	0.0294			mg/L	0.0002	0.001	06/15/23 17:47	kja
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	06/07/23 3:17	keh1
Boron, total recoverable	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	06/08/23 12:35	wtc
Cadmium, dissolved	M200.8 ICP-MS	1	0.00573			mg/L	0.00005	0.00025	06/20/23 18:06	kja
Cadmium, total recoverable	M200.8 ICP-MS	1	0.00478			mg/L	0.00005	0.00025	06/21/23 21:53	kja
Calcium, dissolved	M200.7 ICP	1	16.0		*	mg/L	0.1	0.5	06/07/23 3:17	keh1
Chromium, total recoverable	M200.8 ICP-MS	1	0.00078	B		mg/L	0.0005	0.002	06/15/23 17:47	kja
Cobalt, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	06/07/23 3:17	keh1
Cobalt, total recoverable	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	06/08/23 12:35	wtc
Copper, dissolved	M200.8 ICP-MS	1	0.00633			mg/L	0.0008	0.002	06/13/23 15:03	gjl/scp
Copper, total recoverable	M200.8 ICP-MS	1	0.00770			mg/L	0.0008	0.002	06/15/23 17:47	kja
Iron, dissolved	M200.7 ICP	1	0.182			mg/L	0.06	0.15	06/07/23 3:17	keh1
Iron, total recoverable	M200.7 ICP	1	0.925			mg/L	0.06	0.15	06/08/23 12:35	wtc
Lead, dissolved	M200.8 ICP-MS	1	0.00178			mg/L	0.0001	0.0005	06/13/23 15:03	gjl/scp
Lead, total recoverable	M200.8 ICP-MS	1	0.00298			mg/L	0.0001	0.0005	06/15/23 17:47	kja
Magnesium, dissolved	M200.7 ICP	1	1.73			mg/L	0.2	1	06/07/23 3:17	keh1
Manganese, dissolved	M200.7 ICP	1	<0.01	U	*	mg/L	0.01	0.05	06/07/23 3:17	keh1
Manganese, total recoverable	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	06/08/23 12:35	wtc
Mercury, total	M1631E, Atomic Fluorescence	1	7.29			ng/L	0.3	1	06/07/23 14:05	mlh
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	06/07/23 3:17	keh1
Nickel, total recoverable	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	06/08/23 12:35	wtc
Potassium, dissolved	M200.7 ICP	1	2.15			mg/L	0.2	1	06/07/23 3:17	keh1
Selenium, dissolved	M200.8 ICP-MS	1	0.00026			mg/L	0.0001	0.00025	06/13/23 15:03	gjl/scp
Selenium, total recoverable	M200.8 ICP-MS	1	0.00019	B		mg/L	0.0001	0.00025	06/15/23 17:47	kja
Silica, dissolved	M200.7 ICP	1	29.0			mg/L	0.2	1	06/07/23 3:17	keh1
Silica, total recoverable	M200.7 ICP	1	29.6		*	mg/L	0.2	1	06/13/23 14:06	keh1
Silver, dissolved	M200.8 ICP-MS	1	0.00014	B		mg/L	0.0001	0.0005	06/13/23 15:03	gjl/scp
Silver, total recoverable	M200.8 ICP-MS	1	0.00026	B		mg/L	0.0001	0.0005	06/15/23 17:47	kja
Sodium, dissolved	M200.7 ICP	1	3.67			mg/L	0.2	1	06/07/23 3:17	keh1
Uranium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	06/13/23 15:03	gjl/scp
Uranium, total recoverable	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	06/15/23 17:47	kja
Zinc, dissolved	M200.8 ICP-MS	1	1.21			mg/L	0.006	0.015	06/13/23 15:03	gjl/scp

Rio Grande Silver, Inc.

Project ID: BO51342

Sample ID: WG-L

ACZ Sample ID: **L80780-01**

Date Sampled: 05/30/23 10:00

Date Received: 05/31/23

Sample Matrix: Surface Water

Zinc, total recoverable	M200.8 ICP-MS	1	1.05			mg/L	0.006	0.015	06/15/23 17:47	kja
Wet Chemistry										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	16.3	B		mg/L	2	20	06/12/23 0:00	jck
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	06/12/23 0:00	jck
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	06/12/23 0:00	jck
Total Alkalinity		1	16.3	B		mg/L	2	20	06/12/23 0:00	jck
Carbon, dissolved organic (DOC)	SM5310B	1	6.5		*	mg/L	1	5	06/08/23 17:43	ems
Cation-Anion Balance	Calculation									
Cation-Anion Balance			4.3			%			07/06/23 0:00	calc
Sum of Anions			1.1			meq/L			07/06/23 0:00	calc
Sum of Cations			1.2			meq/L			07/06/23 0:00	calc
Chemical Oxygen Demand	M410.4	1	14	B	*	mg/L	10	20	06/20/23 15:45	cm
Chloride	M300.0 - Ion Chromatography	1	0.57	B	*	mg/L	0.4	2	06/16/23 15:28	bls
Fluoride	SM4500F-C	1	0.21	B	*	mg/L	0.15	0.35	06/16/23 17:04	emk
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		47			mg/L	0.2	5	07/06/23 0:00	calc
Nitrate as N	Calculation: NO ₃ NO ₂ minus NO ₂		0.254			mg/L	0.02	0.1	07/06/23 0:00	calc
Nitrate/Nitrite as N	M353.2 - Automated Cadmium Reduction	1	0.254			mg/L	0.02	0.1	06/01/23 0:11	pjb
Nitrite as N	M353.2 - Automated Cadmium Reduction	1	<0.01	U	*	mg/L	0.01	0.05	06/01/23 0:11	pjb
Nitrogen, ammonia	M350.1 Auto Salicylate w/gas diffusion	1	<0.05	U	*	mg/L	0.05	0.2	06/12/23 11:44	mrdr
Nitrogen, organic	M351.2 & M350.1 - TKN minus NH ₃		0.2	B		mg/L	0.2	0.5	07/06/23 0:00	calc
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	1	0.24	B	*	mg/L	0.2	0.5	06/17/23 11:17	mad
pH (lab)	SM4500H+ B									
pH		1	7.4	H		units	0.1	0.1	06/12/23 0:00	jck
pH measured at		1	21.7			C	0.1	0.1	06/12/23 0:00	jck
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	0.081		*	mg/L	0.01	0.05	06/16/23 9:25	mrdr
Residue, Filterable (TDS) @180C	SM2540C	1	136		*	mg/L	20	40	06/05/23 11:37	pcj
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	06/02/23 15:56	pcj
Sulfate	M300.0 - Ion Chromatography	1	37.2			mg/L	0.4	2	06/16/23 15:28	bls
Sulfide as S	SM4500S2-D	1	<0.02	U	*	mg/L	0.02	0.1	06/01/23 12:58	svm

Rio Grande Silver, Inc.

Project ID: BO51342

Sample ID: WG-9360-B

ACZ Sample ID: **L80780-02**

Date Sampled: 05/30/23 10:45

Date Received: 05/31/23

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Nitrogen, total Kjeldahl	M351.2 - Block Digestor								06/12/23 13:18	aps
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								06/12/23 10:01	lbt/mrd
Total Recoverable Digestion	M200.2 ICP-MS								06/09/23 12:58	kja
Total Recoverable Digestion	M200.2 ICP								06/06/23 18:04	wtc

Rio Grande Silver, Inc.

Project ID: BO51342

Sample ID: WG-9360-B

ACZ Sample ID: **L80780-02**

Date Sampled: 05/30/23 10:45

Date Received: 05/31/23

Sample Matrix: Surface Water

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	0.213	B		mg/L	0.05	0.25	06/07/23 3:21	keh1
Aluminum, total recoverable	M200.7 ICP	1	2.56		*	mg/L	0.05	0.25	06/08/23 12:38	wtc
Arsenic, dissolved	M200.8 ICP-MS	1	0.0210			mg/L	0.0002	0.001	06/13/23 15:05	gjl/scp
Arsenic, total recoverable	M200.8 ICP-MS	1	0.0361			mg/L	0.0002	0.001	06/15/23 17:49	kja
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	06/07/23 3:21	keh1
Boron, total recoverable	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	06/08/23 12:38	wtc
Cadmium, dissolved	M200.8 ICP-MS	1	0.00780			mg/L	0.00005	0.00025	06/13/23 15:05	gjl/scp
Cadmium, total recoverable	M200.8 ICP-MS	1	0.00652			mg/L	0.00005	0.00025	06/15/23 17:49	kja
Calcium, dissolved	M200.7 ICP	1	12.2		*	mg/L	0.1	0.5	06/07/23 3:21	keh1
Chromium, total recoverable	M200.8 ICP-MS	1	0.00074	B		mg/L	0.0005	0.002	06/15/23 17:49	kja
Cobalt, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	06/07/23 3:21	keh1
Cobalt, total recoverable	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	06/08/23 12:38	wtc
Copper, dissolved	M200.8 ICP-MS	1	0.0120			mg/L	0.0008	0.002	06/13/23 15:05	gjl/scp
Copper, total recoverable	M200.8 ICP-MS	1	0.0170			mg/L	0.0008	0.002	06/15/23 17:49	kja
Iron, dissolved	M200.7 ICP	1	0.138	B		mg/L	0.06	0.15	06/07/23 3:21	keh1
Iron, total recoverable	M200.7 ICP	1	1.34			mg/L	0.06	0.15	06/08/23 12:38	wtc
Lead, dissolved	M200.8 ICP-MS	1	0.00032	B		mg/L	0.0001	0.0005	06/13/23 15:05	gjl/scp
Lead, total recoverable	M200.8 ICP-MS	1	0.00184			mg/L	0.0001	0.0005	06/15/23 17:49	kja
Magnesium, dissolved	M200.7 ICP	1	1.57			mg/L	0.2	1	06/07/23 3:21	keh1
Manganese, dissolved	M200.7 ICP	1	0.155		*	mg/L	0.01	0.05	06/07/23 3:21	keh1
Manganese, total recoverable	M200.7 ICP	1	0.171			mg/L	0.01	0.05	06/08/23 12:38	wtc
Mercury, total	M1631E, Atomic Fluorescence	1	10.00			ng/L	0.3	1	06/07/23 14:09	mlh
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	06/07/23 3:21	keh1
Nickel, total recoverable	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	06/08/23 12:38	wtc
Potassium, dissolved	M200.7 ICP	1	2.01			mg/L	0.2	1	06/07/23 3:21	keh1
Selenium, dissolved	M200.8 ICP-MS	1	0.00016	B		mg/L	0.0001	0.00025	06/13/23 15:05	gjl/scp
Selenium, total recoverable	M200.8 ICP-MS	1	0.00013	B		mg/L	0.0001	0.00025	06/15/23 17:49	kja
Silica, dissolved	M200.7 ICP	1	28.5			mg/L	0.2	1	06/07/23 3:21	keh1
Silica, total recoverable	M200.7 ICP	1	33.7		*	mg/L	0.2	1	06/13/23 14:09	keh1
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	06/13/23 15:05	gjl/scp
Silver, total recoverable	M200.8 ICP-MS	1	0.00015	B		mg/L	0.0001	0.0005	06/15/23 17:49	kja
Sodium, dissolved	M200.7 ICP	1	3.24			mg/L	0.2	1	06/07/23 3:21	keh1
Uranium, dissolved	M200.8 ICP-MS	1	0.00011	B		mg/L	0.0001	0.0005	06/13/23 15:05	gjl/scp
Uranium, total recoverable	M200.8 ICP-MS	1	0.00016	B		mg/L	0.0001	0.0005	06/15/23 17:49	kja
Zinc, dissolved	M200.8 ICP-MS	1	0.872			mg/L	0.006	0.015	06/13/23 15:05	gjl/scp

Rio Grande Silver, Inc.

Project ID: BO51342

Sample ID: WG-9360-B

ACZ Sample ID: **L80780-02**

Date Sampled: 05/30/23 10:45

Date Received: 05/31/23

Sample Matrix: Surface Water

Zinc, total recoverable	M200.8 ICP-MS	1	0.782			mg/L	0.006	0.015	06/15/23 17:49	kja
Wet Chemistry										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	16.6	B		mg/L	2	20	06/12/23 0:00	jck
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	06/12/23 0:00	jck
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	06/12/23 0:00	jck
Total Alkalinity		1	16.6	B		mg/L	2	20	06/12/23 0:00	jck
Carbon, dissolved organic (DOC)	SM5310B	1	6.1		*	mg/L	1	5	06/08/23 17:53	ems
Cation-Anion Balance	Calculation									
Cation-Anion Balance			5.9			%			07/06/23 0:00	calc
Sum of Anions			0.889			meq/L			07/06/23 0:00	calc
Sum of Cations			1.0			meq/L			07/06/23 0:00	calc
Chemical Oxygen Demand	M410.4	1	18	B	*	mg/L	10	20	06/20/23 15:56	cm
Chloride	M300.0 - Ion Chromatography	1	0.55	B	*	mg/L	0.4	2	06/16/23 16:22	bls
Fluoride	SM4500F-C	2	<0.3	U	*	mg/L	0.3	0.7	06/16/23 17:07	emk
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		37			mg/L	0.2	5	07/06/23 0:00	calc
Nitrate as N	Calculation: NO ₃ NO ₂ minus NO ₂		0.168			mg/L	0.02	0.1	07/06/23 0:00	calc
Nitrate/Nitrite as N	M353.2 - Automated Cadmium Reduction	1	0.168			mg/L	0.02	0.1	06/01/23 0:12	pjb
Nitrite as N	M353.2 - Automated Cadmium Reduction	1	<0.01	U	*	mg/L	0.01	0.05	06/01/23 0:12	pjb
Nitrogen, ammonia	M350.1 Auto Salicylate w/gas diffusion	1	<0.05	U	*	mg/L	0.05	0.2	06/12/23 11:46	mrdr
Nitrogen, organic	M351.2 & M350.1 - TKN minus NH ₃		0.4	B		mg/L	0.2	0.5	07/06/23 0:00	calc
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	1	0.40	B	*	mg/L	0.2	0.5	06/17/23 11:20	mad
pH (lab)	SM4500H+ B									
pH		1	7.3	H		units	0.1	0.1	06/12/23 0:00	jck
pH measured at		1	21.7			C	0.1	0.1	06/12/23 0:00	jck
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	0.127			mg/L	0.01	0.05	06/16/23 8:45	mrdr
Residue, Filterable (TDS) @180C	SM2540C	1	120		*	mg/L	20	40	06/05/23 11:40	pcj
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	06/02/23 15:59	pcj
Sulfate	M300.0 - Ion Chromatography	1	25.8			mg/L	0.4	2	06/16/23 16:22	bls
Sulfide as S	SM4500S2-D	1	<0.02	U	*	mg/L	0.02	0.1	06/01/23 13:01	svm

Rio Grande Silver, Inc.

Project ID: BO51342

Sample ID: WG-9700-W

ACZ Sample ID: **L80780-03**

Date Sampled: 05/30/23 11:30

Date Received: 05/31/23

Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Nitrogen, total Kjeldahl	M351.2 - Block Digestor								06/12/23 13:30	aps
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								06/12/23 10:23	lbt/mrd
Total Recoverable Digestion	M200.2 ICP-MS								06/20/23 8:45	gil
Total Recoverable Digestion	M200.2 ICP								06/06/23 18:53	wtc

Rio Grande Silver, Inc.

Project ID: BO51342

Sample ID: WG-9700-W

ACZ Sample ID: **L80780-03**

Date Sampled: 05/30/23 11:30

Date Received: 05/31/23

Sample Matrix: Surface Water

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	0.590			mg/L	0.05	0.25	06/07/23 3:24	keh1
Aluminum, total recoverable	M200.7 ICP	1	3.05		*	mg/L	0.05	0.25	06/08/23 12:53	wtc
Arsenic, dissolved	M200.8 ICP-MS	1	0.0411			mg/L	0.0002	0.001	06/13/23 15:12	gjl/scp
Arsenic, total recoverable	M200.8 ICP-MS	1	0.0421			mg/L	0.0002	0.001	06/15/23 17:51	kja
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	06/07/23 3:24	keh1
Boron, total recoverable	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	06/08/23 12:53	wtc
Cadmium, dissolved	M200.8 ICP-MS	1	0.00370			mg/L	0.00005	0.00025	06/28/23 18:45	kja
Cadmium, total recoverable	M200.8 ICP-MS	2	0.00336			mg/L	0.0001	0.0005	07/05/23 13:12	jrj
Calcium, dissolved	M200.7 ICP	1	8.92		*	mg/L	0.1	0.5	06/07/23 3:24	keh1
Chromium, total recoverable	M200.8 ICP-MS	1	0.00090	B		mg/L	0.0005	0.002	06/15/23 17:51	kja
Cobalt, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	06/07/23 3:24	keh1
Cobalt, total recoverable	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	06/08/23 12:53	wtc
Copper, dissolved	M200.8 ICP-MS	1	0.0223			mg/L	0.0008	0.002	06/13/23 15:12	gjl/scp
Copper, total recoverable	M200.8 ICP-MS	1	0.0230			mg/L	0.0008	0.002	06/15/23 17:51	kja
Iron, dissolved	M200.7 ICP	1	0.537			mg/L	0.06	0.15	06/07/23 3:24	keh1
Iron, total recoverable	M200.7 ICP	1	1.70			mg/L	0.06	0.15	06/08/23 12:53	wtc
Lead, dissolved	M200.8 ICP-MS	1	0.00134			mg/L	0.0001	0.0005	06/13/23 15:12	gjl/scp
Lead, total recoverable	M200.8 ICP-MS	1	0.00211			mg/L	0.0001	0.0005	06/15/23 17:51	kja
Magnesium, dissolved	M200.7 ICP	1	1.28			mg/L	0.2	1	06/07/23 3:24	keh1
Manganese, dissolved	M200.7 ICP	1	0.206		*	mg/L	0.01	0.05	06/07/23 3:24	keh1
Manganese, total recoverable	M200.7 ICP	1	0.216			mg/L	0.01	0.05	06/08/23 12:53	wtc
Mercury, total	M1631E, Atomic Fluorescence	1	10.7			ng/L	0.3	1	06/07/23 14:14	mlh
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	06/07/23 3:24	keh1
Nickel, total recoverable	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	06/08/23 12:53	wtc
Potassium, dissolved	M200.7 ICP	1	1.80			mg/L	0.2	1	06/07/23 3:24	keh1
Selenium, dissolved	M200.8 ICP-MS	1	0.00024	B		mg/L	0.0001	0.00025	06/13/23 15:12	gjl/scp
Selenium, total recoverable	M200.8 ICP-MS	1	0.00014	B		mg/L	0.0001	0.00025	06/15/23 17:51	kja
Silica, dissolved	M200.7 ICP	1	28.6			mg/L	0.2	1	06/07/23 3:24	keh1
Silica, total recoverable	M200.7 ICP	1	31.8		*	mg/L	0.2	1	06/13/23 14:18	keh1
Silver, dissolved	M200.8 ICP-MS	1	0.00013	B		mg/L	0.0001	0.0005	06/13/23 15:12	gjl/scp
Silver, total recoverable	M200.8 ICP-MS	1	0.00012	B		mg/L	0.0001	0.0005	06/15/23 17:51	kja
Sodium, dissolved	M200.7 ICP	1	3.05			mg/L	0.2	1	06/07/23 3:24	keh1
Uranium, dissolved	M200.8 ICP-MS	1	0.00028	B		mg/L	0.0001	0.0005	06/13/23 15:12	gjl/scp
Uranium, total recoverable	M200.8 ICP-MS	1	0.00023	B		mg/L	0.0001	0.0005	06/15/23 17:51	kja
Zinc, dissolved	M200.8 ICP-MS	1	0.297			mg/L	0.006	0.015	06/13/23 15:12	gjl/scp

Rio Grande Silver, Inc.

Project ID: BO51342

Sample ID: WG-9700-W

ACZ Sample ID: **L80780-03**

Date Sampled: 05/30/23 11:30

Date Received: 05/31/23

Sample Matrix: Surface Water

Zinc, total recoverable	M200.8 ICP-MS	1	0.252			mg/L	0.006	0.015	06/15/23 17:51	kja
Wet Chemistry										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	26.1			mg/L	2	20	06/12/23 0:00	jck
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	06/12/23 0:00	jck
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	06/12/23 0:00	jck
Total Alkalinity		1	26.1			mg/L	2	20	06/12/23 0:00	jck
Carbon, dissolved organic (DOC)	SM5310B	1	6.6		*	mg/L	1	5	06/08/23 18:03	ems
Cation-Anion Balance	Calculation									
Cation-Anion Balance			3.8			%			07/06/23 0:00	calc
Sum of Anions			0.789			meq/L			07/06/23 0:00	calc
Sum of Cations			0.851			meq/L			07/06/23 0:00	calc
Chemical Oxygen Demand	M410.4	1	18	B	*	mg/L	10	20	06/20/23 16:07	cm
Chloride	M300.0 - Ion Chromatography	1	0.47	B	*	mg/L	0.4	2	06/16/23 16:40	bls
Fluoride	SM4500F-C	2	<0.3	U	*	mg/L	0.3	0.7	06/16/23 17:11	emk
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		28			mg/L	0.2	5	07/06/23 0:00	calc
Nitrate as N	Calculation: NO ₃ NO ₂ minus NO ₂		0.127			mg/L	0.02	0.1	07/06/23 0:00	calc
Nitrate/Nitrite as N	M353.2 - Automated Cadmium Reduction	1	0.127			mg/L	0.02	0.1	06/01/23 0:13	pjb
Nitrite as N	M353.2 - Automated Cadmium Reduction	1	<0.01	U	*	mg/L	0.01	0.05	06/01/23 0:13	pjb
Nitrogen, ammonia	M350.1 Auto Salicylate w/gas diffusion	1	<0.05	U	*	mg/L	0.05	0.2	06/12/23 11:49	mrdr
Nitrogen, organic	M351.2 & M350.1 - TKN minus NH ₃		0.4	B		mg/L	0.2	0.5	07/06/23 0:00	calc
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	1	0.38	B	*	mg/L	0.2	0.5	06/17/23 11:21	mad
pH (lab)	SM4500H+ B									
pH		1	7.5	H		units	0.1	0.1	06/12/23 0:00	jck
pH measured at		1	21.8			C	0.1	0.1	06/12/23 0:00	jck
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	0.149			mg/L	0.01	0.05	06/16/23 8:48	mrdr
Residue, Filterable (TDS) @180C	SM2540C	1	104		*	mg/L	20	40	06/05/23 11:43	pcj
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	06/02/23 16:01	pcj
Sulfate	M300.0 - Ion Chromatography	1	12.1			mg/L	0.4	2	06/16/23 16:40	bls
Sulfide as S	SM4500S2-D	1	<0.02	U	*	mg/L	0.02	0.1	06/01/23 13:05	svm

Rio Grande Silver, Inc.

Project ID: BO51342

Sample ID: WG-U

ACZ Sample ID: **L80780-04**

Date Sampled: 05/30/23 12:15

Date Received: 05/31/23

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Nitrogen, total Kjeldahl	M351.2 - Block Digestor								06/12/23 13:42	aps
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								06/12/23 10:44	lbt/mrd
Total Recoverable Digestion	M200.2 ICP-MS								06/09/23 13:44	kja
Total Recoverable Digestion	M200.2 ICP								06/06/23 19:10	wtc

Rio Grande Silver, Inc.

Project ID: BO51342

Sample ID: WG-U

ACZ Sample ID: **L80780-04**

Date Sampled: 05/30/23 12:15

Date Received: 05/31/23

Sample Matrix: Surface Water

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	0.296			mg/L	0.05	0.25	06/07/23 3:33	keh1
Aluminum, total recoverable	M200.7 ICP	1	3.36		*	mg/L	0.05	0.25	06/08/23 12:56	wtc
Arsenic, dissolved	M200.8 ICP-MS	1	0.00229			mg/L	0.0002	0.001	06/13/23 15:14	gjl/scp
Arsenic, total recoverable	M200.8 ICP-MS	1	0.00261			mg/L	0.0002	0.001	06/15/23 18:00	kja
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	06/07/23 3:33	keh1
Boron, total recoverable	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	06/08/23 12:56	wtc
Cadmium, dissolved	M200.8 ICP-MS	1	0.000299			mg/L	0.00005	0.00025	06/28/23 18:50	kja
Cadmium, total recoverable	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	07/05/23 12:56	jrj
Calcium, dissolved	M200.7 ICP	1	7.93		*	mg/L	0.1	0.5	06/07/23 3:33	keh1
Chromium, total recoverable	M200.8 ICP-MS	1	0.00113	B		mg/L	0.0005	0.002	06/15/23 18:00	kja
Cobalt, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	06/07/23 3:33	keh1
Cobalt, total recoverable	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	06/08/23 12:56	wtc
Copper, dissolved	M200.8 ICP-MS	1	0.00091	B		mg/L	0.0008	0.002	06/13/23 15:14	gjl/scp
Copper, total recoverable	M200.8 ICP-MS	1	0.00165	B		mg/L	0.0008	0.002	06/15/23 18:00	kja
Iron, dissolved	M200.7 ICP	1	0.174			mg/L	0.06	0.15	06/07/23 3:33	keh1
Iron, total recoverable	M200.7 ICP	1	1.56			mg/L	0.06	0.15	06/08/23 12:56	wtc
Lead, dissolved	M200.8 ICP-MS	1	0.00034	B		mg/L	0.0001	0.0005	06/13/23 15:14	gjl/scp
Lead, total recoverable	M200.8 ICP-MS	1	0.00065			mg/L	0.0001	0.0005	06/15/23 18:00	kja
Magnesium, dissolved	M200.7 ICP	1	1.10			mg/L	0.2	1	06/07/23 3:33	keh1
Manganese, dissolved	M200.7 ICP	1	<0.01	U	*	mg/L	0.01	0.05	06/07/23 3:33	keh1
Manganese, total recoverable	M200.7 ICP	1	0.023	B		mg/L	0.01	0.05	06/08/23 12:56	wtc
Mercury, total	M1631E, Atomic Fluorescence	1	4.55			ng/L	0.3	1	06/07/23 14:29	mlh
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	06/07/23 3:33	keh1
Nickel, total recoverable	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	06/08/23 12:56	wtc
Potassium, dissolved	M200.7 ICP	1	1.64			mg/L	0.2	1	06/07/23 3:33	keh1
Selenium, dissolved	M200.8 ICP-MS	1	0.00012	B		mg/L	0.0001	0.00025	06/13/23 15:14	gjl/scp
Selenium, total recoverable	M200.8 ICP-MS	1	0.00014	B		mg/L	0.0001	0.00025	06/15/23 18:00	kja
Silica, dissolved	M200.7 ICP	1	30.5			mg/L	0.2	1	06/07/23 3:33	keh1
Silica, total recoverable	M200.7 ICP	1	34.7		*	mg/L	0.2	1	06/13/23 14:21	keh1
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	06/13/23 15:14	gjl/scp
Silver, total recoverable	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	06/15/23 18:00	kja
Sodium, dissolved	M200.7 ICP	1	3.13			mg/L	0.2	1	06/07/23 3:33	keh1
Uranium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	06/13/23 15:14	gjl/scp
Uranium, total recoverable	M200.8 ICP-MS	1	0.00011	B		mg/L	0.0001	0.0005	06/15/23 18:00	kja
Zinc, dissolved	M200.8 ICP-MS	1	<0.006	U		mg/L	0.006	0.015	06/13/23 15:14	gjl/scp

Rio Grande Silver, Inc.

Project ID: BO51342

Sample ID: WG-U

ACZ Sample ID: **L80780-04**

Date Sampled: 05/30/23 12:15

Date Received: 05/31/23

Sample Matrix: Surface Water

Zinc, total recoverable	M200.8 ICP-MS	1	0.0236			mg/L	0.006	0.015	06/15/23 18:00	kja
Wet Chemistry										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	29.8			mg/L	2	20	06/12/23 0:00	jck
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	06/12/23 0:00	jck
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	06/12/23 0:00	jck
Total Alkalinity		1	29.8			mg/L	2	20	06/12/23 0:00	jck
Carbon, dissolved organic (DOC)	SM5310B	1	8.0		*	mg/L	1	5	06/08/23 18:13	ems
Cation-Anion Balance	Calculation									
Cation-Anion Balance			6.1			%			07/06/23 0:00	calc
Sum of Anions			0.628			meq/L			07/06/23 0:00	calc
Sum of Cations			0.709			meq/L			07/06/23 0:00	calc
Chemical Oxygen Demand	M410.4	1	21		*	mg/L	10	20	06/23/23 11:46	svm
Chloride	M300.0 - Ion Chromatography	1	0.41	B	*	mg/L	0.4	2	06/16/23 17:15	bls
Fluoride	SM4500F-C	2	<0.3	U	*	mg/L	0.3	0.7	06/16/23 17:14	emk
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		24			mg/L	0.2	5	07/06/23 0:00	calc
Nitrate as N	Calculation: NO ₃ NO ₂ minus NO ₂		0.028	B		mg/L	0.02	0.1	07/06/23 0:00	calc
Nitrate/Nitrite as N	M353.2 - Automated Cadmium Reduction	1	0.028	B		mg/L	0.02	0.1	06/01/23 0:15	pjb
Nitrite as N	M353.2 - Automated Cadmium Reduction	1	<0.01	U	*	mg/L	0.01	0.05	06/01/23 0:15	pjb
Nitrogen, ammonia	M350.1 Auto Salicylate w/gas diffusion	1	<0.05	U	*	mg/L	0.05	0.2	06/12/23 11:52	mrdr
Nitrogen, organic	M351.2 & M350.1 - TKN minus NH ₃		0.4	B		mg/L	0.2	0.5	07/06/23 0:00	calc
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	1	0.44	B	*	mg/L	0.2	0.5	06/17/23 11:22	mad
pH (lab)	SM4500H+ B									
pH		1	7.7	H		units	0.1	0.1	06/12/23 0:00	jck
pH measured at		1	21.0			C	0.1	0.1	06/12/23 0:00	jck
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	0.087			mg/L	0.01	0.05	06/16/23 8:50	mrdr
Residue, Filterable (TDS) @180C	SM2540C	1	106		*	mg/L	20	40	06/05/23 11:45	pcj
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	06/02/23 16:04	pcj
Sulfate	M300.0 - Ion Chromatography	1	0.99	B		mg/L	0.4	2	06/16/23 17:15	bls
Sulfide as S	SM4500S2-D	1	<0.02	U	*	mg/L	0.02	0.1	06/01/23 13:08	svm

Rio Grande Silver, Inc.

Project ID: BO51342

Sample ID: WG-D

ACZ Sample ID: **L80780-05**

Date Sampled: 05/30/23 10:07

Date Received: 05/31/23

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Nitrogen, total Kjeldahl	M351.2 - Block Digestor								06/12/23 13:55	aps
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								06/12/23 10:55	lbt/mrd
Total Recoverable Digestion	M200.2 ICP-MS								06/20/23 8:45	gil
Total Recoverable Digestion	M200.2 ICP								06/06/23 19:26	wtc

Rio Grande Silver, Inc.

Project ID: BO51342

Sample ID: WG-D

ACZ Sample ID: **L80780-05**

Date Sampled: 05/30/23 10:07

Date Received: 05/31/23

Sample Matrix: Surface Water

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	0.285			mg/L	0.05	0.25	06/07/23 3:36	keh1
Aluminum, total recoverable	M200.7 ICP	1	1.99		*	mg/L	0.05	0.25	06/08/23 13:00	wtc
Arsenic, dissolved	M200.8 ICP-MS	1	0.0265			mg/L	0.0002	0.001	06/13/23 15:17	gjl/scp
Arsenic, total recoverable	M200.8 ICP-MS	1	0.0293			mg/L	0.0002	0.001	06/15/23 18:02	kja
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	06/07/23 3:36	keh1
Boron, total recoverable	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	06/08/23 13:00	wtc
Cadmium, dissolved	M200.8 ICP-MS	1	0.00531			mg/L	0.00005	0.00025	06/20/23 18:09	kja
Cadmium, total recoverable	M200.8 ICP-MS	1	0.00476			mg/L	0.00005	0.00025	06/21/23 21:56	kja
Calcium, dissolved	M200.7 ICP	1	15.9		*	mg/L	0.1	0.5	06/07/23 3:36	keh1
Chromium, total recoverable	M200.8 ICP-MS	1	0.00070	B		mg/L	0.0005	0.002	06/15/23 18:02	kja
Cobalt, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	06/07/23 3:36	keh1
Cobalt, total recoverable	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	06/08/23 13:00	wtc
Copper, dissolved	M200.8 ICP-MS	1	0.00652			mg/L	0.0008	0.002	06/13/23 15:17	gjl/scp
Copper, total recoverable	M200.8 ICP-MS	1	0.00755			mg/L	0.0008	0.002	06/15/23 18:02	kja
Iron, dissolved	M200.7 ICP	1	0.174			mg/L	0.06	0.15	06/07/23 3:36	keh1
Iron, total recoverable	M200.7 ICP	1	0.978			mg/L	0.06	0.15	06/08/23 13:00	wtc
Lead, dissolved	M200.8 ICP-MS	1	0.00177			mg/L	0.0001	0.0005	06/13/23 15:17	gjl/scp
Lead, total recoverable	M200.8 ICP-MS	1	0.00293			mg/L	0.0001	0.0005	06/15/23 18:02	kja
Magnesium, dissolved	M200.7 ICP	1	1.71			mg/L	0.2	1	06/07/23 3:36	keh1
Manganese, dissolved	M200.7 ICP	1	<0.01	U	*	mg/L	0.01	0.05	06/07/23 3:36	keh1
Manganese, total recoverable	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	06/08/23 13:00	wtc
Mercury, total	M1631E, Atomic Fluorescence	1	7.22			ng/L	0.3	1	06/07/23 14:33	mlh
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	06/07/23 3:36	keh1
Nickel, total recoverable	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	06/08/23 13:00	wtc
Potassium, dissolved	M200.7 ICP	1	2.12			mg/L	0.2	1	06/07/23 3:36	keh1
Selenium, dissolved	M200.8 ICP-MS	1	0.00020	B		mg/L	0.0001	0.00025	06/13/23 15:17	gjl/scp
Selenium, total recoverable	M200.8 ICP-MS	1	0.00018	B		mg/L	0.0001	0.00025	06/15/23 18:02	kja
Silica, dissolved	M200.7 ICP	1	28.8			mg/L	0.2	1	06/07/23 3:36	keh1
Silica, total recoverable	M200.7 ICP	1	31.8		*	mg/L	0.2	1	06/13/23 14:24	keh1
Silver, dissolved	M200.8 ICP-MS	1	0.00012	B		mg/L	0.0001	0.0005	06/13/23 15:17	gjl/scp
Silver, total recoverable	M200.8 ICP-MS	1	0.00025	B		mg/L	0.0001	0.0005	06/15/23 18:02	kja
Sodium, dissolved	M200.7 ICP	1	3.64			mg/L	0.2	1	06/07/23 3:36	keh1
Uranium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	06/13/23 15:17	gjl/scp
Uranium, total recoverable	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	06/15/23 18:02	kja
Zinc, dissolved	M200.8 ICP-MS	1	1.23			mg/L	0.006	0.015	06/13/23 15:17	gjl/scp

Rio Grande Silver, Inc.

Project ID: BO51342

Sample ID: WG-D

ACZ Sample ID: **L80780-05**

Date Sampled: 05/30/23 10:07

Date Received: 05/31/23

Sample Matrix: Surface Water

Zinc, total recoverable	M200.8 ICP-MS	1	1.03			mg/L	0.006	0.015	06/15/23 18:02	kja
Wet Chemistry										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	15.4	B		mg/L	2	20	06/12/23 0:00	jck
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	06/12/23 0:00	jck
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	06/12/23 0:00	jck
Total Alkalinity		1	15.4	B		mg/L	2	20	06/12/23 0:00	jck
Carbon, dissolved organic (DOC)	SM5310B	1	5.9		*	mg/L	1	5	06/08/23 18:23	ems
Cation-Anion Balance	Calculation									
Cation-Anion Balance			4.3			%			07/06/23 0:00	calc
Sum of Anions			1.1			meq/L			07/06/23 0:00	calc
Sum of Cations			1.2			meq/L			07/06/23 0:00	calc
Chemical Oxygen Demand	M410.4	1	12	B	*	mg/L	10	20	06/23/23 11:52	svm
Chloride	M300.0 - Ion Chromatography	1	0.57	B	*	mg/L	0.4	2	06/19/23 20:23	bls
Fluoride	SM4500F-C	1	0.17	B	*	mg/L	0.15	0.35	06/16/23 17:30	emk
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		47			mg/L	0.2	5	07/06/23 0:00	calc
Nitrate as N	Calculation: NO ₃ NO ₂ minus NO ₂		0.217			mg/L	0.02	0.1	07/06/23 0:00	calc
Nitrate/Nitrite as N	M353.2 - Automated Cadmium Reduction	1	0.217			mg/L	0.02	0.1	06/01/23 0:17	pjb
Nitrite as N	M353.2 - Automated Cadmium Reduction	1	<0.01	U	*	mg/L	0.01	0.05	06/01/23 0:17	pjb
Nitrogen, ammonia	M350.1 Auto Salicylate w/gas diffusion	1	<0.05	U	*	mg/L	0.05	0.2	06/12/23 11:53	mrdr
Nitrogen, organic	M351.2 & M350.1 - TKN minus NH ₃		0.2	B		mg/L	0.2	0.5	07/06/23 0:00	calc
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	1	0.21	B	*	mg/L	0.2	0.5	06/17/23 11:24	mad
pH (lab)	SM4500H+ B									
pH		1	7.3	H		units	0.1	0.1	06/12/23 0:00	jck
pH measured at		1	21.0			C	0.1	0.1	06/12/23 0:00	jck
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	0.088			mg/L	0.01	0.05	06/16/23 8:51	mrdr
Residue, Filterable (TDS) @180C	SM2540C	1	130		*	mg/L	20	40	06/05/23 11:50	pcj
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	06/02/23 16:07	pcj
Sulfate	M300.0 - Ion Chromatography	1	37.0			mg/L	0.4	2	06/19/23 20:23	bls
Sulfide as S	SM4500S2-D	1	<0.02	U	*	mg/L	0.02	0.1	06/01/23 13:18	svm

Rio Grande Silver, Inc.

Project ID: BO51342

Sample ID: TRIP BLANK

ACZ Sample ID: **L80780-06**

Date Sampled: 05/30/23 10:00

Date Received: 05/31/23

Sample Matrix: *Surface Water*

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Mercury, total	M1631E, Atomic Fluorescence	1	<0.3	U		ng/L	0.3	1	06/07/23 14:38	mlh

Report Header Explanations

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

QC Sample Types

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

QC Sample Type Explanations

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

ACZ Qualifiers (Qual)

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

Method References

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

Comments

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

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

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

HECLARIO

ACZ Project ID: **L80780**

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
WG567909													
WG567909PBW	PBW	06/12/23 15:21				5.5	mg/L		-20	20			
WG567909LCSW3	LCSW	06/12/23 15:41	WC230601-3	820.0001		864.8	mg/L	105	90	110			
L80781-01DUP	DUP	06/12/23 16:57			190	213.8	mg/L				12	20	
WG567909LCSW6	LCSW	06/12/23 19:16	WC230612-1	820.0001		851.8	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
WG567499													
WG567499ICV	ICV	06/07/23 2:02	II230516-3	2		1.974	mg/L	99	95	105			
WG567499ICB	ICB	06/07/23 2:07				U	mg/L		-0.15	0.15			
WG567499PQV	PQV	06/07/23 2:10	II230516-2	.2525		.254	mg/L	101	70	130			
WG567499SIC	SIC	06/07/23 2:13	II230601-2	202.2525		208.2	mg/L	103	1	200			
WG567499LFB	LFB	06/07/23 2:20	II230530-2	1.01		1.05	mg/L	104	85	115			
WG567499CCV1	CCV	06/07/23 2:50	II230525-1	1		.961	mg/L	96	90	110			
WG567499CCB1	CCB	06/07/23 2:53				U	mg/L		-0.15	0.15			
L80771-01AS	AS	06/07/23 3:08	II230530-2	1.01	.128	1.231	mg/L	109	85	115			
L80771-01ASD	ASD	06/07/23 3:11	II230530-2	1.01	.128	1.224	mg/L	109	85	115	1	20	
WG567499CCV2	CCV	06/07/23 3:27	II230525-1	1		.983	mg/L	98	90	110			
WG567499CCB2	CCB	06/07/23 3:30				U	mg/L		-0.15	0.15			
WG567499CCV3	CCV	06/07/23 3:48	II230525-1	1		.961	mg/L	96	90	110			
WG567499CCB3	CCB	06/07/23 3:51				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
WG567670													
WG567670ICV	ICV	06/08/23 11:59	II230516-3	2		1.966	mg/L	98	95	105			
WG567670ICB	ICB	06/08/23 12:05				U	mg/L		-0.15	0.15			
WG567670PQV	PQV	06/08/23 12:08	II230516-2	.2525		.231	mg/L	91	70	130			
WG567670SIC	SIC	06/08/23 12:11	II230601-2	202.2525		204.3	mg/L	101	1	200			
WG567532LRB	LRB	06/08/23 12:17				U	mg/L		-0.11	0.11			
WG567532LFB	LFB	06/08/23 12:20	II230530-2	1.01		1.021	mg/L	101	85	115			
L80780-02LFM	LFM	06/08/23 12:41	II230530-2	1.01	2.56	3.882	mg/L	131	70	130			M1
L80780-02LFMD	LFMD	06/08/23 12:44	II230530-2	1.01	2.56	3.92	mg/L	135	70	130	1	20	M1
WG567670CCV1	CCV	06/08/23 12:47	II230525-1	1		.974	mg/L	97	90	110			
WG567670CCB1	CCB	06/08/23 12:50				U	mg/L		-0.15	0.15			
WG567670CCV2	CCV	06/08/23 13:24	II230525-1	1		.966	mg/L	97	90	110			
WG567670CCB2	CCB	06/08/23 13:27				U	mg/L		-0.15	0.15			
WG567670CCV3	CCV	06/08/23 13:39	II230525-1	1		.966	mg/L	97	90	110			
WG567670CCB3	CCB	06/08/23 13:42				U	mg/L		-0.15	0.15			

HECLARIO

ACZ Project ID: **L80780**

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
WG567867													
WG567867ICV	ICV	06/13/23 14:56	MS230410-7	.05		.04925	mg/L	99	90	110			
WG567867ICB	ICB	06/13/23 14:58				U	mg/L		-0.00044	0.00044			
WG567867LFB	LFB	06/13/23 15:00	MS230605-2	.0501		.04917	mg/L	98	85	115			
L80780-02AS	AS	06/13/23 15:07	MS230605-2	.0501	.021	.07251	mg/L	103	70	130			
L80780-02ASD	ASD	06/13/23 15:10	MS230605-2	.0501	.021	.07043	mg/L	99	70	130	3	20	
WG567867CCV1	CCV	06/13/23 15:24	MS230606-3	.1002		.10417	mg/L	104	90	110			
WG567867CCB1	CCB	06/13/23 15:26				U	mg/L		-0.0006	0.0006			
WG567867CCV2	CCV	06/13/23 15:51	MS230606-3	.1002		.10532	mg/L	105	90	110			
WG567867CCB2	CCB	06/13/23 15:54				U	mg/L		-0.0006	0.0006			
WG567867CCV3	CCV	06/13/23 16:08	MS230606-3	.1002		.10108	mg/L	101	90	110			
WG567867CCB3	CCB	06/13/23 16:10				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
WG568273													
WG568273ICV	ICV	06/15/23 17:36	MS230410-7	.05		.05013	mg/L	100	90	110			
WG568273ICB	ICB	06/15/23 17:38				U	mg/L		-0.0006	0.0006			
WG567766LRB	LRB	06/15/23 17:40				U	mg/L		-0.00044	0.00044			
WG567766LFB	LFB	06/15/23 17:42	MS230605-2	.0501		.04973	mg/L	99	85	115			
L80780-03LFM	LFM	06/15/23 17:53	MS230605-2	.0501	.0421	.09147	mg/L	99	70	130			
WG568273CCV1	CCV	06/15/23 17:54	MS230606-3	.1002		.10335	mg/L	103	90	110			
WG568273CCB1	CCB	06/15/23 17:56				U	mg/L		-0.0006	0.0006			
L80780-03LFMD	LFMD	06/15/23 17:58	MS230605-2	.0501	.0421	.09192	mg/L	99	70	130	0	20	
WG568273CCV2	CCV	06/15/23 18:16	MS230606-3	.1002		.09828	mg/L	98	90	110			
WG568273CCB2	CCB	06/15/23 18:18				U	mg/L		-0.0006	0.0006			
WG568273CCV3	CCV	06/15/23 18:35	MS230606-3	.1002		.09633	mg/L	96	90	110			
WG568273CCB3	CCB	06/15/23 18:36				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
WG567499													
WG567499ICV	ICV	06/07/23 2:02	II230516-3	2		1.992	mg/L	100	95	105			
WG567499ICB	ICB	06/07/23 2:07				U	mg/L		-0.09	0.09			
WG567499PQV	PQV	06/07/23 2:10	II230516-2	.1001		.099	mg/L	99	70	130			
WG567499SIC	SIC	06/07/23 2:13	II230601-2	.1001		.096	mg/L	96	80	120			
WG567499LFB	LFB	06/07/23 2:20	II230530-2	.5005		.486	mg/L	97	85	115			
WG567499CCV1	CCV	06/07/23 2:50	II230525-1	1		.976	mg/L	98	90	110			
WG567499CCB1	CCB	06/07/23 2:53				U	mg/L		-0.09	0.09			
L80771-01AS	AS	06/07/23 3:08	II230530-2	.5005	U	.523	mg/L	104	85	115			
L80771-01ASD	ASD	06/07/23 3:11	II230530-2	.5005	U	.52	mg/L	104	85	115	1	20	
WG567499CCV2	CCV	06/07/23 3:27	II230525-1	1		.994	mg/L	99	90	110			
WG567499CCB2	CCB	06/07/23 3:30				U	mg/L		-0.09	0.09			
WG567499CCV3	CCV	06/07/23 3:48	II230525-1	1		.976	mg/L	98	90	110			
WG567499CCB3	CCB	06/07/23 3:51				U	mg/L		-0.09	0.09			

HECLARIO

ACZ Project ID: **L80780**

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
WG567670													
WG567670ICV	ICV	06/08/23 11:59	II230516-3	2		2.003	mg/L	100	95	105			
WG567670ICB	ICB	06/08/23 12:05				U	mg/L		-0.09	0.09			
WG567670PQV	PQV	06/08/23 12:08	II230516-2	.1001		.103	mg/L	103	70	130			
WG567670SIC	SIC	06/08/23 12:11	II230601-2	.1001		.101	mg/L	101	80	120			
WG567532LRB	LRB	06/08/23 12:17				U	mg/L		-0.066	0.066			
WG567532LFB	LFB	06/08/23 12:20	II230530-2	.5005		.484	mg/L	97	85	115			
L80780-02LFM	LFM	06/08/23 12:41	II230530-2	.5005	U	.485	mg/L	97	70	130			
L80780-02LFMD	LFMD	06/08/23 12:44	II230530-2	.5005	U	.494	mg/L	99	70	130	2	20	
WG567670CCV1	CCV	06/08/23 12:47	II230525-1	1		1.012	mg/L	101	90	110			
WG567670CCB1	CCB	06/08/23 12:50				U	mg/L		-0.09	0.09			
WG567670CCV2	CCV	06/08/23 13:24	II230525-1	1		1.002	mg/L	100	90	110			
WG567670CCB2	CCB	06/08/23 13:27				U	mg/L		-0.09	0.09			
WG567670CCV3	CCV	06/08/23 13:39	II230525-1	1		1.003	mg/L	100	90	110			
WG567670CCB3	CCB	06/08/23 13:42				U	mg/L		-0.09	0.09			

Cadmium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG567867													
WG567867ICV	ICV	06/13/23 14:56	MS230410-7	.05		.052464	mg/L	105	90	110			
WG567867ICB	ICB	06/13/23 14:58				U	mg/L		-0.00011	0.00011			
WG567867LFB	LFB	06/13/23 15:00	MS230605-2	.05005		.050526	mg/L	101	85	115			
L80780-02AS	AS	06/13/23 15:07	MS230605-2	.05005	.0078	.065641	mg/L	116	70	130			
L80780-02ASD	ASD	06/13/23 15:10	MS230605-2	.05005	.0078	.065751	mg/L	116	70	130	0	20	
WG567867CCV1	CCV	06/13/23 15:24	MS230606-3	.1001		.106984	mg/L	107	90	110			
WG567867CCB1	CCB	06/13/23 15:26				U	mg/L		-0.00015	0.00015			
WG567867CCV2	CCV	06/13/23 15:51	MS230606-3	.1001		.108684	mg/L	109	90	110			
WG567867CCB2	CCB	06/13/23 15:54				U	mg/L		-0.00015	0.00015			
WG567867CCV3	CCV	06/13/23 16:08	MS230606-3	.1001		.104124	mg/L	104	90	110			
WG567867CCB3	CCB	06/13/23 16:10				U	mg/L		-0.00015	0.00015			
WG568513													
WG568513ICV	ICV	06/20/23 17:35	MS230410-7	.05		.051088	mg/L	102	90	110			
WG568513ICB	ICB	06/20/23 17:36				U	mg/L		-0.00011	0.00011			
WG568513LFB	LFB	06/20/23 17:38	MS230605-2	.05005		.048964	mg/L	98	85	115			
WG568513CCV1	CCV	06/20/23 17:56	MS230606-3	.1001		.100786	mg/L	101	90	110			
WG568513CCB1	CCB	06/20/23 17:58				U	mg/L		-0.00015	0.00015			
WG568513CCV2	CCV	06/20/23 18:18	MS230606-3	.1001		.100366	mg/L	100	90	110			
WG568513CCB2	CCB	06/20/23 18:20				U	mg/L		-0.00015	0.00015			
L80887-01AS	AS	06/20/23 18:27	MS230605-2	.05005	U	.049665	mg/L	99	70	130			
L80887-01ASD	ASD	06/20/23 18:29	MS230605-2	.05005	U	.05	mg/L	100	70	130	1	20	
WG568513CCV3	CCV	06/20/23 18:31	MS230606-3	.1001		.101164	mg/L	101	90	110			
WG568513CCB3	CCB	06/20/23 18:33				U	mg/L		-0.00015	0.00015			

HECLARIO

ACZ Project ID: **L80780**

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

Cadmium, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG568273													
WG568273ICV	ICV	06/15/23 17:36	MS230410-7	.05		.050704	mg/L	101	90	110			
WG568273ICB	ICB	06/15/23 17:38				U	mg/L		-0.00015	0.00015			
WG567766LRB	LRB	06/15/23 17:40				U	mg/L		-0.00011	0.00011			
WG567766LFB	LFB	06/15/23 17:42	MS230605-2	.05005		.049478	mg/L	99	85	115			
L80780-03LFM	LFM	06/15/23 17:53	MS230605-2	.05005	.00318	.052086	mg/L	98	70	130			
WG568273CCV1	CCV	06/15/23 17:54	MS230606-3	.1001		.099148	mg/L	99	90	110			
WG568273CCB1	CCB	06/15/23 17:56				U	mg/L		-0.00015	0.00015			
L80780-03LFMD	LFMD	06/15/23 17:58	MS230605-2	.05005	.00318	.050752	mg/L	95	70	130	3	20	
WG568273CCV2	CCV	06/15/23 18:16	MS230606-3	.1001		.099502	mg/L	99	90	110			
WG568273CCB2	CCB	06/15/23 18:18				U	mg/L		-0.00015	0.00015			
WG568273CCV3	CCV	06/15/23 18:35	MS230606-3	.1001		.100324	mg/L	100	90	110			
WG568273CCB3	CCB	06/15/23 18:36				U	mg/L		-0.00015	0.00015			

WG568741

WG568741ICV	ICV	06/21/23 21:45	MS230620-3	.05		.049685	mg/L	99	90	110			
WG568741ICB	ICB	06/21/23 21:47				U	mg/L		-0.00015	0.00015			
WG568545LRB	LRB	06/21/23 21:49				U	mg/L		-0.00011	0.00011			
WG568545LFB	LFB	06/21/23 21:51	MS230605-2	.05005		.047061	mg/L	94	85	115			
L81084-02LFM	LFM	06/21/23 22:02	MS230605-2	.05005	U	.046407	mg/L	93	70	130			
L81084-02LFMD	LFMD	06/21/23 22:03	MS230605-2	.05005	U	.046717	mg/L	93	70	130	1	20	
WG568741CCV1	CCV	06/21/23 22:07	MS230616-2	.1001		.09937	mg/L	99	90	110			
WG568741CCB1	CCB	06/21/23 22:09				.000053	mg/L		-0.00015	0.00015			
WG568741CCV2	CCV	06/21/23 22:29	MS230616-2	.1001		.100676	mg/L	101	90	110			
WG568741CCV3	CCV	06/21/23 22:43	MS230616-2	.1001		.100801	mg/L	101	90	110			
WG568741CCB3	CCB	06/21/23 22:45				.000145	mg/L		-0.00015	0.00015			

Calcium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG567499													
WG567499ICV	ICV	06/07/23 2:02	II230516-3	100		98.43	mg/L	98	95	105			
WG567499ICB	ICB	06/07/23 2:07				U	mg/L		-0.3	0.3			
WG567499PQV	PQV	06/07/23 2:10	II230516-2	.4999		.47	mg/L	94	70	130			
WG567499SIC	SIC	06/07/23 2:13	II230601-2	200.4599		199.3	mg/L	99	1	200			
WG567499LFB	LFB	06/07/23 2:20	II230530-2	67.98753		68.8	mg/L	101	85	115			
WG567499CCV1	CCV	06/07/23 2:50	II230525-1	50		47.98	mg/L	96	90	110			
WG567499CCB1	CCB	06/07/23 2:53				U	mg/L		-0.3	0.3			
L80771-01AS	AS	06/07/23 3:08	II230530-2	67.98753	502	542.2	mg/L	59	85	115			M3
L80771-01ASD	ASD	06/07/23 3:11	II230530-2	67.98753	502	548.1	mg/L	68	85	115	1	20	M3
WG567499CCV2	CCV	06/07/23 3:27	II230525-1	50		48.79	mg/L	98	90	110			
WG567499CCB2	CCB	06/07/23 3:30				U	mg/L		-0.3	0.3			
WG567499CCV3	CCV	06/07/23 3:48	II230525-1	50		47.56	mg/L	95	90	110			
WG567499CCB3	CCB	06/07/23 3:51				U	mg/L		-0.3	0.3			

HECLARIO

ACZ Project ID: **L80780**

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

Carbon, dissolved organic (DOC)

SM5310B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG567700													
WG567700CCV1	CCV	06/08/23 14:36	WI230413-8	50		51.3	mg/L	103	90	110			
WG567700CCB1	CCB	06/08/23 14:46				U	mg/L		-3	3			
WG567700PQV	PQV	06/08/23 14:57	WI230413-9	5		5	mg/L	100	70	130			
WG567700LFB	LFB	06/08/23 15:11	WI230413-11	50		51	mg/L	102	90	110			
WG567700CCV2	CCV	06/08/23 16:44	WI230413-8	50		51.5	mg/L	103	90	110			
WG567700CCB2	CCB	06/08/23 16:54				U	mg/L		-3	3			
WG567700CCV3	CCV	06/08/23 18:45	WI230413-8	50		51.6	mg/L	103	90	110			
WG567700CCB3	CCB	06/08/23 18:55				U	mg/L		-3	3			
L80787-08DUP	DUP	06/08/23 19:35			4.5	4.5	mg/L				0	20	RA
L80787-10AS	AS	06/08/23 19:56	WI230413-11	50	3.8	53.7	mg/L	100	90	110			
WG567700CCV4	CCV	06/08/23 20:08	WI230413-8	50		52.1	mg/L	104	90	110			
WG567700CCB4	CCB	06/08/23 20:18				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
WG568580													
WG568580ICV	ICV	06/20/23 10:50	WC230609-3	200		205	mg/L	103	90	110			
WG568580ICB	ICB	06/20/23 11:01				U	mg/L		-10	10			
WG568580LRB	LRB	06/20/23 11:12				U	mg/L		-10	10			
WG568580LFB	LFB	06/20/23 11:24	WC230609-5	50		48	mg/L	96	90	110			
WG568580CCV1	CCV	06/20/23 12:54	WC230609-4	400		396	mg/L	99	90	110			
WG568580CCB1	CCB	06/20/23 13:06				U	mg/L		-10	10			
WG568580CCV2	CCV	06/20/23 15:11	WC230609-4	400		396	mg/L	99	90	110			
WG568580CCB2	CCB	06/20/23 15:22				U	mg/L		-10	10			
L80780-03DUP	DUP	06/20/23 16:19			18	19	mg/L				5	20	RA
L80780-03AS	AS	06/20/23 16:30	WC230609-5	50	18	56	mg/L	76	90	110			M2
WG568580CCV3	CCV	06/20/23 16:41	WC230609-4	400		395	mg/L	99	90	110			
WG568580CCB3	CCB	06/20/23 16:53				U	mg/L		-10	10			
WG568922													
WG568922ICV	ICV	06/23/23 11:15	WC230609-3	200		201	mg/L	101	90	110			
WG568922ICB	ICB	06/23/23 11:21				U	mg/L		-10	10			
WG568922LRB1	LRB	06/23/23 11:27				U	mg/L		-10	10			
WG568922LFB1	LFB	06/23/23 11:33	WC230609-5	50		51	mg/L	102	90	110			
WG568922CCV1	CCV	06/23/23 12:30	WC230609-4	400		395	mg/L	99	90	110			
WG568922CCB1	CCB	06/23/23 12:36				U	mg/L		-10	10			
L80802-06DUP	DUP	06/23/23 12:55			12	14	mg/L				15	20	RA
L80802-06AS	AS	06/23/23 13:01	WC230609-5	50	12	63	mg/L	102	90	110			
WG568922CCV2	CCV	06/23/23 13:45	WC230609-4	400		396	mg/L	99	90	110			
WG568922CCB2	CCB	06/23/23 13:51				U	mg/L		-10	10			
WG568922LRB2	LRB	06/23/23 14:35				U	mg/L		-10	10			
WG568922LFB2	LFB	06/23/23 14:41	WC230609-5	50		52	mg/L	104	90	110			
WG568922CCV3	CCV	06/23/23 15:00	WC230609-4	400		395	mg/L	99	90	110			
WG568922CCB3	CCB	06/23/23 15:06				U	mg/L		-10	10			
WG568922CCV4	CCV	06/23/23 16:15	WC230609-4	400		396	mg/L	99	90	110			
WG568922CCB4	CCB	06/23/23 16:22				U	mg/L		-10	10			
WG568922CCV5	CCV	06/23/23 16:53	WC230609-4	400		396	mg/L	99	90	110			
WG568922CCB5	CCB	06/23/23 16:59				U	mg/L		-10	10			

HECLARIO

ACZ Project ID: **L80780**

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
WG567935													
WG567935ICV	ICV	06/12/23 14:00	WI230612-5	20		19.79	mg/L	99	90	110			
WG567935ICB	ICB	06/12/23 14:18				U	mg/L		-0.4	0.4			
WG568254													
WG568254CCV1	CCV	06/16/23 8:35	WI230614-10	50		51.62	mg/L	103	90	110			
WG568254CCB1	CCB	06/16/23 8:53				U	mg/L		-0.4	0.4			
WG568254PQV	PQV	06/16/23 9:11	WI230615-8	2		1.68	mg/L	84	70	130			
WG568254LFB	LFB	06/16/23 9:29	WI230302-10	30		31.41	mg/L	105	90	110			
WG568254CCV2	CCV	06/16/23 12:11	WI230614-10	50		51.46	mg/L	103	90	110			
WG568254CCB2	CCB	06/16/23 12:29				U	mg/L		-0.4	0.4			
WG568254CCV3	CCV	06/16/23 15:46	WI230614-10	50		51.43	mg/L	103	90	110			
WG568254CCB3	CCB	06/16/23 16:04				U	mg/L		-0.4	0.4			
L80780-03DUP	DUP	06/16/23 16:57			.47	.46	mg/L				2	20	RA
L80780-04AS	AS	06/16/23 17:33	WI230302-10	30	.41	31.17	mg/L	103	90	110			
WG568254CCV4	CCV	06/16/23 18:09	WI230614-10	50		51.51	mg/L	103	90	110			
WG568254CCB4	CCB	06/16/23 18:27				U	mg/L		-0.4	0.4			
WG568518													
WG568518CCV1	CCV	06/19/23 15:55	WI230614-10	50		51.12	mg/L	102	90	110			
WG568518CCB1	CCB	06/19/23 16:12				U	mg/L		-0.4	0.4			
WG568518PQV	PQV	06/19/23 16:30	WI230615-8	2		1.75	mg/L	88	70	130			
WG568518LFB1	LFB	06/19/23 16:48	WI230302-10	30		30.73	mg/L	102	90	110			
WG568518CCV2	CCV	06/19/23 19:30	WI230614-10	50		51.24	mg/L	102	90	110			
WG568518CCB2	CCB	06/19/23 19:48				U	mg/L		-0.4	0.4			
L80767-06AS	AS	06/19/23 20:06	WI230302-10	30	7.39	39.48	mg/L	107	90	110			
L80780-05DUP	DUP	06/19/23 20:41			.57	.59	mg/L				3	20	RA
WG568518CCV3	CCV	06/19/23 23:05	WI230614-10	50		51.38	mg/L	103	90	110			
WG568518CCB3	CCB	06/19/23 23:23				U	mg/L		-0.4	0.4			
WG568518LFB2	LFB	06/20/23 1:28	WI230302-10	30		30.03	mg/L	100	90	110			
WG568518CCV4	CCV	06/20/23 2:40	WI230614-10	50		51.45	mg/L	103	90	110			
WG568518CCB4	CCB	06/20/23 2:58				U	mg/L		-0.4	0.4			
WG568518CCV5	CCV	06/20/23 5:57	WI230614-10	50		51.43	mg/L	103	90	110			
WG568518CCB5	CCB	06/20/23 6:15				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
WG568273													
WG568273ICV	ICV	06/15/23 17:36	MS230410-7	.05		.05025	mg/L	101	90	110			
WG568273ICB	ICB	06/15/23 17:38				U	mg/L		-0.0015	0.0015			
WG567766LRB	LRB	06/15/23 17:40				U	mg/L		-0.0011	0.0011			
WG567766LFB	LFB	06/15/23 17:42	MS230605-2	.0501		.04863	mg/L	97	85	115			
L80780-03LFM	LFM	06/15/23 17:53	MS230605-2	.0501	.0009	.04905	mg/L	96	70	130			
WG568273CCV1	CCV	06/15/23 17:54	MS230606-3	.1002		.10041	mg/L	100	90	110			
WG568273CCB1	CCB	06/15/23 17:56				U	mg/L		-0.0015	0.0015			
L80780-03LFMD	LFMD	06/15/23 17:58	MS230605-2	.0501	.0009	.04857	mg/L	95	70	130	1	20	
WG568273CCV2	CCV	06/15/23 18:16	MS230606-3	.1002		.09802	mg/L	98	90	110			
WG568273CCB2	CCB	06/15/23 18:18				U	mg/L		-0.0015	0.0015			
WG568273CCV3	CCV	06/15/23 18:35	MS230606-3	.1002		.09754	mg/L	97	90	110			
WG568273CCB3	CCB	06/15/23 18:36				U	mg/L		-0.0015	0.0015			

HECLARIO

ACZ Project ID: **L80780**

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
WG567499													
WG567499ICV	ICV	06/07/23 2:02	II230516-3	2.01		1.947	mg/L	97	95	105			
WG567499ICB	ICB	06/07/23 2:07				U	mg/L		-0.06	0.06			
WG567499PQV	PQV	06/07/23 2:10	II230516-2	.05005		.05	mg/L	100	70	130			
WG567499SIC	SIC	06/07/23 2:13	II230601-2	.1001		.094	mg/L	94	80	120			
WG567499LFB	LFB	06/07/23 2:20	II230530-2	.5005		.483	mg/L	97	85	115			
WG567499CCV1	CCV	06/07/23 2:50	II230525-1	1.005		.973	mg/L	97	90	110			
WG567499CCB1	CCB	06/07/23 2:53				U	mg/L		-0.06	0.06			
L80771-01AS	AS	06/07/23 3:08	II230530-2	.5005	U	.483	mg/L	97	85	115			
L80771-01ASD	ASD	06/07/23 3:11	II230530-2	.5005	U	.485	mg/L	97	85	115	0	20	
WG567499CCV2	CCV	06/07/23 3:27	II230525-1	1.005		.983	mg/L	98	90	110			
WG567499CCB2	CCB	06/07/23 3:30				U	mg/L		-0.06	0.06			
WG567499CCV3	CCV	06/07/23 3:48	II230525-1	1.005		.958	mg/L	95	90	110			
WG567499CCB3	CCB	06/07/23 3:51				U	mg/L		-0.06	0.06			

Cobalt, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG567670													
WG567670ICV	ICV	06/08/23 11:59	II230516-3	2.01		1.96	mg/L	98	95	105			
WG567670ICB	ICB	06/08/23 12:05				U	mg/L		-0.06	0.06			
WG567670PQV	PQV	06/08/23 12:08	II230516-2	.05005		.049	mg/L	98	70	130			
WG567670SIC	SIC	06/08/23 12:11	II230601-2	.1001		.096	mg/L	96	80	120			
WG567532LRB	LRB	06/08/23 12:17				U	mg/L		-0.044	0.044			
WG567532LFB	LFB	06/08/23 12:20	II230530-2	.5005		.491	mg/L	98	85	115			
L80780-02LFM	LFM	06/08/23 12:41	II230530-2	.5005	U	.49	mg/L	98	70	130			
L80780-02LFMD	LFMD	06/08/23 12:44	II230530-2	.5005	U	.495	mg/L	99	70	130	1	20	
WG567670CCV1	CCV	06/08/23 12:47	II230525-1	1.005		.997	mg/L	99	90	110			
WG567670CCB1	CCB	06/08/23 12:50				U	mg/L		-0.06	0.06			
WG567670CCV2	CCV	06/08/23 13:24	II230525-1	1.005		1.005	mg/L	100	90	110			
WG567670CCB2	CCB	06/08/23 13:27				U	mg/L		-0.06	0.06			
WG567670CCV3	CCV	06/08/23 13:39	II230525-1	1.005		.997	mg/L	99	90	110			
WG567670CCB3	CCB	06/08/23 13:42				U	mg/L		-0.06	0.06			

Copper, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG567867													
WG567867ICV	ICV	06/13/23 14:56	MS230410-7	.05		.05237	mg/L	105	90	110			
WG567867ICB	ICB	06/13/23 14:58				U	mg/L		-0.00176	0.00176			
WG567867LFB	LFB	06/13/23 15:00	MS230605-2	.05005		.05021	mg/L	100	85	115			
L80780-02AS	AS	06/13/23 15:07	MS230605-2	.05005	.012	.06254	mg/L	101	70	130			
L80780-02ASD	ASD	06/13/23 15:10	MS230605-2	.05005	.012	.06039	mg/L	97	70	130	3	20	
WG567867CCV1	CCV	06/13/23 15:24	MS230606-3	.25025		.25957	mg/L	104	90	110			
WG567867CCB1	CCB	06/13/23 15:26				U	mg/L		-0.0024	0.0024			
WG567867CCV2	CCV	06/13/23 15:51	MS230606-3	.25025		.25885	mg/L	103	90	110			
WG567867CCB2	CCB	06/13/23 15:54				U	mg/L		-0.0024	0.0024			
WG567867CCV3	CCV	06/13/23 16:08	MS230606-3	.25025		.2455	mg/L	98	90	110			
WG567867CCB3	CCB	06/13/23 16:10				U	mg/L		-0.0024	0.0024			

HECLARIO

ACZ Project ID: **L80780**

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
WG568273													
WG568273ICV	ICV	06/15/23 17:36	MS230410-7	.05		.0522	mg/L	104	90	110			
WG568273ICB	ICB	06/15/23 17:38				U	mg/L		-0.0024	0.0024			
WG567766LRB	LRB	06/15/23 17:40				U	mg/L		-0.00176	0.00176			
WG567766LFB	LFB	06/15/23 17:42	MS230605-2	.05005		.04967	mg/L	99	85	115			
L80780-03LFM	LFM	06/15/23 17:53	MS230605-2	.05005	.023	.07366	mg/L	101	70	130			
WG568273CCV1	CCV	06/15/23 17:54	MS230606-3	.25025		.25711	mg/L	103	90	110			
WG568273CCB1	CCB	06/15/23 17:56				U	mg/L		-0.0024	0.0024			
L80780-03LFMD	LFMD	06/15/23 17:58	MS230605-2	.05005	.023	.07245	mg/L	99	70	130	2	20	
WG568273CCV2	CCV	06/15/23 18:16	MS230606-3	.25025		.24569	mg/L	98	90	110			
WG568273CCB2	CCB	06/15/23 18:18				U	mg/L		-0.0024	0.0024			
WG568273CCV3	CCV	06/15/23 18:35	MS230606-3	.25025		.24239	mg/L	97	90	110			
WG568273CCB3	CCB	06/15/23 18:36				U	mg/L		-0.0024	0.0024			

Fluoride

SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG568335													
WG568335ICV	ICV	06/16/23 10:01	WC230614-1	2.002		1.9	mg/L	95	90	110			
WG568335ICB	ICB	06/16/23 10:07				U	mg/L		-0.3	0.3			
WG568389													
WG568389ICV	ICV	06/16/23 16:21	WC230614-1	2.002		1.88	mg/L	94	90	110			
WG568389ICB	ICB	06/16/23 16:29				U	mg/L		-0.3	0.3			
WG568389PQV	PQV	06/16/23 16:32	WC230522-7	.3514		.29	mg/L	83	70	130			
WG568389LFB1	LFB	06/16/23 16:36	WC221227-7	5.02		4.62	mg/L	92	90	110			
L80778-01AS	AS	06/16/23 16:57	WC221227-7	5.02	.44	4.38	mg/L	78	90	110			M2
L80778-01ASD	ASD	06/16/23 17:01	WC221227-7	5.02	.44	4.36	mg/L	78	90	110	0	20	M2
WG568389CCV1	CCV	06/16/23 17:18	WC230614-1	2.002		1.835	mg/L	92	90	110			
WG568389CCB1	CCB	06/16/23 17:26				U	mg/L		-0.3	0.3			
WG568389CCV2	CCV	06/16/23 18:15	WC230614-1	2.002		1.853	mg/L	93	90	110			
WG568389CCB2	CCB	06/16/23 18:22				U	mg/L		-0.3	0.3			
WG568389LFB2	LFB	06/16/23 18:44	WC221227-7	5.02		4.49	mg/L	89	90	110			N1
WG568389CCV3	CCV	06/16/23 19:01	WC230614-1	2.002		1.827	mg/L	91	90	110			
WG568389CCB3	CCB	06/16/23 19:09				U	mg/L		-0.3	0.3			
WG568389CCV4	CCV	06/16/23 20:00	WC230614-1	2.002		1.915	mg/L	96	90	110			
WG568389CCB4	CCB	06/16/23 20:05				U	mg/L		-0.3	0.3			
WG568389CCV5	CCV	06/16/23 20:47	WC230614-1	2.002		1.853	mg/L	93	90	110			
WG568389CCB5	CCB	06/16/23 20:53				U	mg/L		-0.3	0.3			

HECLARIO

ACZ Project ID: **L80780**

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
WG567499													
WG567499ICV	ICV	06/07/23 2:02	II230516-3	2		1.908	mg/L	95	95	105			
WG567499ICB	ICB	06/07/23 2:07				U	mg/L		-0.18	0.18			
WG567499PQV	PQV	06/07/23 2:10	II230516-2	.1506		.152	mg/L	101	70	130			
WG567499SIC	SIC	06/07/23 2:13	II230601-2	200.9506		191.5	mg/L	95	1	200			
WG567499LFB	LFB	06/07/23 2:20	II230530-2	1.004		.974	mg/L	97	85	115			
WG567499CCV1	CCV	06/07/23 2:50	II230525-1	1		.942	mg/L	94	90	110			
WG567499CCB1	CCB	06/07/23 2:53				U	mg/L		-0.18	0.18			
L80771-01AS	AS	06/07/23 3:08	II230530-2	1.004	U	.976	mg/L	97	85	115			
L80771-01ASD	ASD	06/07/23 3:11	II230530-2	1.004	U	.968	mg/L	96	85	115	1	20	
WG567499CCV2	CCV	06/07/23 3:27	II230525-1	1		.952	mg/L	95	90	110			
WG567499CCB2	CCB	06/07/23 3:30				U	mg/L		-0.18	0.18			
WG567499CCV3	CCV	06/07/23 3:48	II230525-1	1		.935	mg/L	94	90	110			
WG567499CCB3	CCB	06/07/23 3:51				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
WG567670													
WG567670ICV	ICV	06/08/23 11:59	II230516-3	2		1.928	mg/L	96	95	105			
WG567670ICB	ICB	06/08/23 12:05				U	mg/L		-0.18	0.18			
WG567670PQV	PQV	06/08/23 12:08	II230516-2	.1506		.147	mg/L	98	70	130			
WG567670SIC	SIC	06/08/23 12:11	II230601-2	200.9506		190.9	mg/L	95	1	200			
WG567532LRB	LRB	06/08/23 12:17				U	mg/L		-0.132	0.132			
WG567532LFB	LFB	06/08/23 12:20	II230530-2	1.004		.987	mg/L	98	85	115			
L80780-02LFM	LFM	06/08/23 12:41	II230530-2	1.004	1.34	2.315	mg/L	97	70	130			
L80780-02LFMD	LFMD	06/08/23 12:44	II230530-2	1.004	1.34	2.368	mg/L	102	70	130	2	20	
WG567670CCV1	CCV	06/08/23 12:47	II230525-1	1		.971	mg/L	97	90	110			
WG567670CCB1	CCB	06/08/23 12:50				U	mg/L		-0.18	0.18			
WG567670CCV2	CCV	06/08/23 13:24	II230525-1	1		.967	mg/L	97	90	110			
WG567670CCB2	CCB	06/08/23 13:27				U	mg/L		-0.18	0.18			
WG567670CCV3	CCV	06/08/23 13:39	II230525-1	1		.971	mg/L	97	90	110			
WG567670CCB3	CCB	06/08/23 13:42				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
WG567867													
WG567867ICV	ICV	06/13/23 14:56	MS230410-7	.05		.05166	mg/L	103	90	110			
WG567867ICB	ICB	06/13/23 14:58				U	mg/L		-0.00022	0.00022			
WG567867LFB	LFB	06/13/23 15:00	MS230605-2	.05005		.04938	mg/L	99	85	115			
L80780-02AS	AS	06/13/23 15:07	MS230605-2	.05005	.00032	.05339	mg/L	106	70	130			
L80780-02ASD	ASD	06/13/23 15:10	MS230605-2	.05005	.00032	.05315	mg/L	106	70	130	0	20	
WG567867CCV1	CCV	06/13/23 15:24	MS230606-3	.25025		.25692	mg/L	103	90	110			
WG567867CCB1	CCB	06/13/23 15:26				U	mg/L		-0.0003	0.0003			
WG567867CCV2	CCV	06/13/23 15:51	MS230606-3	.25025		.25871	mg/L	103	90	110			
WG567867CCB2	CCB	06/13/23 15:54				U	mg/L		-0.0003	0.0003			
WG567867CCV3	CCV	06/13/23 16:08	MS230606-3	.25025		.2504	mg/L	100	90	110			
WG567867CCB3	CCB	06/13/23 16:10				U	mg/L		-0.0003	0.0003			

HECLARIO

ACZ Project ID: **L80780**

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
WG568273													
WG568273ICV	ICV	06/15/23 17:36	MS230410-7	.05		.05095	mg/L	102	90	110			
WG568273ICB	ICB	06/15/23 17:38				U	mg/L		-0.0003	0.0003			
WG567766LRB	LRB	06/15/23 17:40				U	mg/L		-0.00022	0.00022			
WG567766LFB	LFB	06/15/23 17:42	MS230605-2	.05005		.04947	mg/L	99	85	115			
L80780-03LFM	LFM	06/15/23 17:53	MS230605-2	.05005	.00211	.05219	mg/L	100	70	130			
WG568273CCV1	CCV	06/15/23 17:54	MS230606-3	.25025		.25152	mg/L	101	90	110			
WG568273CCB1	CCB	06/15/23 17:56				.0001	mg/L		-0.0003	0.0003			
L80780-03LFMD	LFMD	06/15/23 17:58	MS230605-2	.05005	.00211	.05046	mg/L	97	70	130	3	20	
WG568273CCV2	CCV	06/15/23 18:16	MS230606-3	.25025		.25037	mg/L	100	90	110			
WG568273CCB2	CCB	06/15/23 18:18				U	mg/L		-0.0003	0.0003			
WG568273CCV3	CCV	06/15/23 18:35	MS230606-3	.25025		.252	mg/L	101	90	110			
WG568273CCB3	CCB	06/15/23 18:36				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
WG567499													
WG567499ICV	ICV	06/07/23 2:02	II230516-3	100		98.29	mg/L	98	95	105			
WG567499ICB	ICB	06/07/23 2:07				U	mg/L		-0.6	0.6			
WG567499PQV	PQV	06/07/23 2:10	II230516-2	1.0023		1.01	mg/L	101	70	130			
WG567499SIC	SIC	06/07/23 2:13	II230601-2	201.4623		205.6	mg/L	102	1	200			
WG567499LFB	LFB	06/07/23 2:20	II230530-2	49.99752		50.31	mg/L	101	85	115			
WG567499CCV1	CCV	06/07/23 2:50	II230525-1	50		48	mg/L	96	90	110			
WG567499CCB1	CCB	06/07/23 2:53				U	mg/L		-0.6	0.6			
L80771-01AS	AS	06/07/23 3:08	II230530-2	49.99752	77.1	124.9	mg/L	96	85	115			
L80771-01ASD	ASD	06/07/23 3:11	II230530-2	49.99752	77.1	123.9	mg/L	94	85	115	1	20	
WG567499CCV2	CCV	06/07/23 3:27	II230525-1	50		48.47	mg/L	97	90	110			
WG567499CCB2	CCB	06/07/23 3:30				U	mg/L		-0.6	0.6			
WG567499CCV3	CCV	06/07/23 3:48	II230525-1	50		47.42	mg/L	95	90	110			
WG567499CCB3	CCB	06/07/23 3:51				U	mg/L		-0.6	0.6			

Manganese, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG567499													
WG567499ICV	ICV	06/07/23 2:02	II230516-3	2		1.935	mg/L	97	95	105			
WG567499ICB	ICB	06/07/23 2:07				U	mg/L		-0.03	0.03			
WG567499PQV	PQV	06/07/23 2:10	II230516-2	.0498		.047	mg/L	94	70	130			
WG567499SIC	SIC	06/07/23 2:13	II230601-2	49.9998		47.9	mg/L	96	1	200			
WG567499LFB	LFB	06/07/23 2:20	II230530-2	.4995		.489	mg/L	98	85	115			
WG567499CCV1	CCV	06/07/23 2:50	II230525-1	1		.953	mg/L	95	90	110			
WG567499CCB1	CCB	06/07/23 2:53				U	mg/L		-0.03	0.03			
L80771-01AS	AS	06/07/23 3:08	II230530-2	.4995	2.55	2.913	mg/L	73	85	115			M3
L80771-01ASD	ASD	06/07/23 3:11	II230530-2	.4995	2.55	2.896	mg/L	69	85	115	1	20	M3
WG567499CCV2	CCV	06/07/23 3:27	II230525-1	1		.966	mg/L	97	90	110			
WG567499CCB2	CCB	06/07/23 3:30				U	mg/L		-0.03	0.03			
WG567499CCV3	CCV	06/07/23 3:48	II230525-1	1		.945	mg/L	95	90	110			
WG567499CCB3	CCB	06/07/23 3:51				U	mg/L		-0.03	0.03			

HECLARIO

ACZ Project ID: **L80780**

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

Manganese, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG567670													
WG567670ICV	ICV	06/08/23 11:59	II230516-3	2		1.953	mg/L	98	95	105			
WG567670ICB	ICB	06/08/23 12:05				U	mg/L		-0.03	0.03			
WG567670PQV	PQV	06/08/23 12:08	II230516-2	.0498		.049	mg/L	98	70	130			
WG567670SIC	SIC	06/08/23 12:11	II230601-2	49.9998		47.71	mg/L	95	1	200			
WG567532LRB	LRB	06/08/23 12:17				U	mg/L		-0.022	0.022			
WG567532LFB	LFB	06/08/23 12:20	II230530-2	.4995		.498	mg/L	100	85	115			
L80780-02LFM	LFM	06/08/23 12:41	II230530-2	.4995	.171	.658	mg/L	97	70	130			
L80780-02LFMD	LFMD	06/08/23 12:44	II230530-2	.4995	.171	.674	mg/L	101	70	130	2	20	
WG567670CCV1	CCV	06/08/23 12:47	II230525-1	1		.983	mg/L	98	90	110			
WG567670CCB1	CCB	06/08/23 12:50				U	mg/L		-0.03	0.03			
WG567670CCV2	CCV	06/08/23 13:24	II230525-1	1		.982	mg/L	98	90	110			
WG567670CCB2	CCB	06/08/23 13:27				U	mg/L		-0.03	0.03			
WG567670CCV3	CCV	06/08/23 13:39	II230525-1	1		.979	mg/L	98	90	110			
WG567670CCB3	CCB	06/08/23 13:42				U	mg/L		-0.03	0.03			

Mercury, total

M1631E, Atomic Fluorescence

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG562868													
WG562868ICV	ICV	03/28/23 10:46	HG230302-4	10		10.1	ng/L	101	79	121			
WG562868ICB	ICB	03/28/23 10:51				U	ng/L		-0.501	0.501			
WG567615													
WG567615CCV1	CCV	06/07/23 8:29	HG230522-4	10		9.39	ng/L	94	76.5	123.4			
WG567615CCB1	CCB	06/07/23 8:34				U	ng/L		-0.501	0.501			
WG567615PQV	PQV	06/07/23 8:38	HG230522-6	1		.81	ng/L	81	70	130			
WG567615CCV2	CCV	06/07/23 13:49	HG230522-4	10		10.3	ng/L	103	76.5	123.4			
WG567615CCB2	CCB	06/07/23 13:53				U	ng/L		-0.501	0.501			
WG567615LFB	LFB	06/07/23 14:00	HG230522-5	2		1.82	ng/L	91	71	125			
L80780-03MS	MS	06/07/23 14:19	HG230522-5	2	10.7	12.7	ng/L	100	71	125			
L80780-03MSD	MSD	06/07/23 14:24	HG230522-5	2	10.7	12.2	ng/L	75	71	125	4	24	
WG567615CCV3	CCV	06/07/23 14:48	HG230522-4	10		9.02	ng/L	90	76.5	123.4			
WG567615CCB3	CCB	06/07/23 14:52				U	ng/L		-0.501	0.501			
WG567615CCV4	CCV	06/07/23 15:44	HG230522-4	10		8.78	ng/L	88	76.5	123.4			
WG567615CCB4	CCB	06/07/23 15:49				U	ng/L		-0.501	0.501			
WG567615CCV5	CCV	06/07/23 16:27	HG230522-4	10		9	ng/L	90	76.5	123.4			
WG567615CCB5	CCB	06/07/23 16:32				U	ng/L		-0.501	0.501			

HECLARIO

ACZ Project ID: **L80780**

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

Nickel, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG567499													
WG567499ICV	ICV	06/07/23 2:02	II230516-3	2.002		1.9735	mg/L	99	95	105			
WG567499ICB	ICB	06/07/23 2:07				U	mg/L		-0.024	0.024			
WG567499PQV	PQV	06/07/23 2:10	II230516-2	.04		.0445	mg/L	111	70	130			
WG567499SIC	SIC	06/07/23 2:13	II230601-2	.1		.097	mg/L	97	80	120			
WG567499LFB	LFB	06/07/23 2:20	II230530-2	.5		.4955	mg/L	99	85	115			
WG567499CCV1	CCV	06/07/23 2:50	II230525-1	1.001		.9899	mg/L	99	90	110			
WG567499CCB1	CCB	06/07/23 2:53				U	mg/L		-0.024	0.024			
L80771-01AS	AS	06/07/23 3:08	II230530-2	.5	U	.494	mg/L	99	85	115			
L80771-01ASD	ASD	06/07/23 3:11	II230530-2	.5	U	.496	mg/L	99	85	115	0	20	
WG567499CCV2	CCV	06/07/23 3:27	II230525-1	1.001		1.002	mg/L	100	90	110			
WG567499CCB2	CCB	06/07/23 3:30				U	mg/L		-0.024	0.024			
WG567499CCV3	CCV	06/07/23 3:48	II230525-1	1.001		.9769	mg/L	98	90	110			
WG567499CCB3	CCB	06/07/23 3:51				U	mg/L		-0.024	0.024			

Nickel, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG567670													
WG567670ICV	ICV	06/08/23 11:59	II230516-3	2.002		1.994	mg/L	100	95	105			
WG567670ICB	ICB	06/08/23 12:05				.0085	mg/L		-0.024	0.024			
WG567670PQV	PQV	06/08/23 12:08	II230516-2	.04		.0436	mg/L	109	70	130			
WG567670SIC	SIC	06/08/23 12:11	II230601-2	.1		.099	mg/L	99	80	120			
WG567532LRB	LRB	06/08/23 12:17				U	mg/L		-0.0176	0.0176			
WG567532LFB	LFB	06/08/23 12:20	II230530-2	.5		.5075	mg/L	102	85	115			
L80780-02LFM	LFM	06/08/23 12:41	II230530-2	.5	U	.5053	mg/L	101	70	130			
L80780-02LFMD	LFMD	06/08/23 12:44	II230530-2	.5	U	.5103	mg/L	102	70	130	1	20	
WG567670CCV1	CCV	06/08/23 12:47	II230525-1	1.001		1.017	mg/L	102	90	110			
WG567670CCB1	CCB	06/08/23 12:50				U	mg/L		-0.024	0.024			
WG567670CCV2	CCV	06/08/23 13:24	II230525-1	1.001		1.022	mg/L	102	90	110			
WG567670CCB2	CCB	06/08/23 13:27				U	mg/L		-0.024	0.024			
WG567670CCV3	CCV	06/08/23 13:39	II230525-1	1.001		1.017	mg/L	102	90	110			
WG567670CCB3	CCB	06/08/23 13:42				U	mg/L		-0.024	0.024			

Nitrate/Nitrite as N

M353.2 - Automated Cadmium Reduction

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG567174													
WG567174ICV	ICV	05/31/23 23:49	WI230301-5	2.416		2.308	mg/L	96	90	110			
WG567174ICB	ICB	05/31/23 23:50				U	mg/L		-0.02	0.02			
WG567174LFB	LFB	05/31/23 23:54	WI230228-3	2		2.052	mg/L	103	90	110			
L80756-01AS	AS	05/31/23 23:56	WI230228-3	2	.432	2.499	mg/L	103	90	110			
L80756-02DUP	DUP	05/31/23 23:59			.433	.434	mg/L				0	20	
WG567174CCV1	CCV	06/01/23 0:04	WI230531-7	2		1.984	mg/L	99	90	110			
WG567174CCB1	CCB	06/01/23 0:07				U	mg/L		-0.02	0.02			
L80780-04AS	AS	06/01/23 0:16	WI230228-3	2	.028	2.025	mg/L	100	90	110			
L80780-05DUP	DUP	06/01/23 0:19			.217	.216	mg/L				0	20	
WG567174CCV2	CCV	06/01/23 0:21	WI230531-7	2		1.983	mg/L	99	90	110			
WG567174CCB2	CCB	06/01/23 0:24				U	mg/L		-0.02	0.02			
WG567174CCV3	CCV	06/01/23 0:38	WI230531-7	2		1.936	mg/L	97	90	110			
WG567174CCB3	CCB	06/01/23 0:41				U	mg/L		-0.02	0.02			

HECLARIO

ACZ Project ID: **L80780**

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.

Nitrite as N

M353.2 - Automated Cadmium Reduction

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG567174													
WG567174ICV	ICV	05/31/23 23:49	WI230301-5	.608		.597	mg/L	98	90	110			
WG567174ICB	ICB	05/31/23 23:50				U	mg/L		-0.01	0.01			
WG567174LFB	LFB	05/31/23 23:54	WI230228-3	1		1.017	mg/L	102	90	110			
L80756-01AS	AS	05/31/23 23:56	WI230228-3	1	U	1.022	mg/L	102	90	110			
L80756-02DUP	DUP	05/31/23 23:59			U	U	mg/L				0	20	RA
WG567174CCV1	CCV	06/01/23 0:04	WI230531-7	1		.983	mg/L	98	90	110			
WG567174CCB1	CCB	06/01/23 0:07				U	mg/L		-0.01	0.01			
L80780-04AS	AS	06/01/23 0:16	WI230228-3	1	U	1.006	mg/L	101	90	110			
L80780-05DUP	DUP	06/01/23 0:19			U	U	mg/L				0	20	RA
WG567174CCV2	CCV	06/01/23 0:21	WI230531-7	1		.99	mg/L	99	90	110			
WG567174CCB2	CCB	06/01/23 0:24				U	mg/L		-0.01	0.01			
WG567174CCV3	CCV	06/01/23 0:38	WI230531-7	1		.974	mg/L	97	90	110			
WG567174CCB3	CCB	06/01/23 0:41				U	mg/L		-0.01	0.01			

Nitrogen, ammonia

M350.1 Auto Salicylate w/gas diffusion

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG567852													
WG567852ICV	ICV	06/12/23 9:39	WI230405-8	12.036		11.54	mg/L	96	90	110			
WG567852ICB	ICB	06/12/23 9:41				U	mg/L		-0.05	0.05			
WG567890													
WG567890CCV1	CCV	06/12/23 11:19	WI230405-9	10		9.77	mg/L	98	90	110			
WG567890CCB1	CCB	06/12/23 11:21				U	mg/L		-0.05	0.05			
WG567890LFB1	LFB	06/12/23 11:22	WI220420-3	10		10.392	mg/L	104	90	110			
WG567890CCV2	CCV	06/12/23 11:37	WI230405-9	10		9.736	mg/L	97	90	110			
WG567890CCB2	CCB	06/12/23 11:38				U	mg/L		-0.05	0.05			
L80780-02AS	AS	06/12/23 11:47	WI220420-3	10	U	10.09	mg/L	101	90	110			
L80780-03DUP	DUP	06/12/23 11:50			U	U	mg/L				0	20	RA
WG567890CCV3	CCV	06/12/23 11:55	WI230405-9	10		9.891	mg/L	99	90	110			
WG567890CCB3	CCB	06/12/23 11:56				U	mg/L		-0.05	0.05			
WG567890LFB2	LFB	06/12/23 12:05	WI220420-3	10		10.297	mg/L	103	90	110			
WG567890CCV4	CCV	06/12/23 12:12	WI230405-9	10		9.918	mg/L	99	90	110			
WG567890CCB4	CCB	06/12/23 12:14				U	mg/L		-0.05	0.05			
WG567890CCV5	CCV	06/12/23 12:30	WI230405-9	10		9.794	mg/L	98	90	110			
WG567890CCB5	CCB	06/12/23 12:32				U	mg/L		-0.05	0.05			

HECLARIO

ACZ Project ID: **L80780**

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

Nitrogen, total Kjeldahl

M351.2 - TKN by Block Digester

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG568417													
WG568417ICV	ICV	06/17/23 10:50	WI230525-1	4		3.73	mg/L	93	90	110			
WG568417ICB	ICB	06/17/23 10:52				U	mg/L		-0.2	0.2			
WG567851LRB	LRB	06/17/23 10:53				U	mg/L		-0.2	0.2			
WG567851LFB	LFB	06/17/23 10:54	WI230420-2	2.5		2.52	mg/L	101	90	110			
WG568417CCV1	CCV	06/17/23 11:04	WI230525-3	2.5		2.46	mg/L	98	90	110			
WG568417CCB1	CCB	06/17/23 11:05				U	mg/L		-0.2	0.2			
L80729-03LFM	LFM	06/17/23 11:12	WI230420-2	2.5	U	2.59	mg/L	104	90	110			
L80729-04DUP	DUP	06/17/23 11:14			U	U	mg/L				0	20	RA
WG568417CCV2	CCV	06/17/23 11:18	WI230525-3	2.5		2.42	mg/L	97	90	110			
WG568417CCB2	CCB	06/17/23 11:19				U	mg/L		-0.2	0.2			
WG568417CCV3	CCV	06/17/23 11:31	WI230525-3	2.5		2.39	mg/L	96	90	110			
WG568417CCB3	CCB	06/17/23 11:33				U	mg/L		-0.2	0.2			
WG568417CCV4	CCV	06/17/23 11:40	WI230525-3	2.5		2.4	mg/L	96	90	110			
WG568417CCB4	CCB	06/17/23 11:41				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
WG567909													
WG567909LCSW1	LCSW	06/12/23 15:25	PCN623461	5.99		6.1	units	102	5.9	6.1			
L80781-01DUP	DUP	06/12/23 16:57			8.3	8.3	units				0	20	
WG567909LCSW4	LCSW	06/12/23 19:01	PCN623461	5.99		6.1	units	102	5.9	6.1			

Phosphorus, total

M365.1 - Auto Ascorbic Acid (digest)

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG568318													
WG568318ICV	ICV	06/16/23 8:40	WI230605-6	.65228		.643	mg/L	99	90	110			
WG568318ICB	ICB	06/16/23 8:42				U	mg/L		-0.01	0.01			
WG567870LRB	LRB	06/16/23 8:43				U	mg/L		-0.01	0.01			
WG567870LFB	LFB	06/16/23 8:44	WI230605-3	.5		.466	mg/L	93	90	110			
L80780-02LFM	LFM	06/16/23 8:47	WI230605-3	.5	.127	.605	mg/L	96	90	110			
L80780-03DUP	DUP	06/16/23 8:49			.149	.151	mg/L				1	20	
WG568318CCV1	CCV	06/16/23 8:54	WI230605-8	.5		.495	mg/L	99	90	110			
WG568318CCB1	CCB	06/16/23 8:56				U	mg/L		-0.01	0.01			
WG568318CCV2	CCV	06/16/23 9:03	WI230605-8	.5		.494	mg/L	99	90	110			
WG568318CCB2	CCB	06/16/23 9:04				U	mg/L		-0.01	0.01			
WG568319													
WG568319CCV1	CCV	06/16/23 9:16	WI230605-8	.5		.498	mg/L	100	90	110			
WG568319CCB1	CCB	06/16/23 9:17				U	mg/L		-0.01	0.01			
WG567797LRB	LRB	06/16/23 9:18				U	mg/L		-0.01	0.01			
WG567797LFB	LFB	06/16/23 9:20	WI230605-3	.5		.463	mg/L	93	90	110			
L80642-04LFM	LFM	06/16/23 9:22	WI230605-3	.5	U	.482	mg/L	96	90	110			
L80642-05DUP	DUP	06/16/23 9:24			U	U	mg/L				0	20	RA
WG568319CCV2	CCV	06/16/23 9:30	WI230605-8	.5		.494	mg/L	99	90	110			
WG568319CCB2	CCB	06/16/23 9:31				U	mg/L		-0.01	0.01			
WG568319CCV3	CCV	06/16/23 9:38	WI230605-8	.5		.496	mg/L	99	90	110			
WG568319CCB3	CCB	06/16/23 9:39				U	mg/L		-0.01	0.01			

HECLARIO

ACZ Project ID: **L80780**

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
WG567499													
WG567499ICV	ICV	06/07/23 2:02	II230516-3	20		19.5	mg/L	98	95	105			
WG567499ICB	ICB	06/07/23 2:07				U	mg/L		-0.6	0.6			
WG567499PQV	PQV	06/07/23 2:10	II230516-2	1.005		1.1	mg/L	109	70	130			
WG567499SIC	SIC	06/07/23 2:13	II230601-2	1.005		1.07	mg/L	106	80	120			
WG567499LFB	LFB	06/07/23 2:20	II230530-2	99.95693		98.81	mg/L	99	85	115			
WG567499CCV1	CCV	06/07/23 2:50	II230525-1	10		9.54	mg/L	95	90	110			
WG567499CCB1	CCB	06/07/23 2:53				U	mg/L		-0.6	0.6			
L80771-01AS	AS	06/07/23 3:08	II230530-2	99.95693	14.2	118.4	mg/L	104	85	115			
L80771-01ASD	ASD	06/07/23 3:11	II230530-2	99.95693	14.2	118.2	mg/L	104	85	115	0	20	
WG567499CCV2	CCV	06/07/23 3:27	II230525-1	10		9.77	mg/L	98	90	110			
WG567499CCB2	CCB	06/07/23 3:30				U	mg/L		-0.6	0.6			
WG567499CCV3	CCV	06/07/23 3:48	II230525-1	10		9.67	mg/L	97	90	110			
WG567499CCB3	CCB	06/07/23 3:51				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
WG567412													
WG567412PBW	PBW	06/05/23 11:30				U	mg/L		-20	20			
WG567412LCSW	LCSW	06/05/23 11:32	PCN625110	1000		980	mg/L	98	80	120			
L80780-04DUP	DUP	06/05/23 11:48			106	110	mg/L				4	10	RA

Residue, Non-Filterable (TSS) @105C

SM2540D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG567338													
WG567338PBW	PBW	06/02/23 15:20				U	mg/L		-5	5			
WG567338LCSW	LCSW	06/02/23 15:22	PCN625110	100		95	mg/L	95	80	120			
L80781-04DUP	DUP	06/02/23 16:20			U	U	mg/L				0	10	RA

Selenium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG567867													
WG567867ICV	ICV	06/13/23 14:56	MS230410-7	.05		.05034	mg/L	101	90	110			
WG567867ICB	ICB	06/13/23 14:58				U	mg/L		-0.00022	0.00022			
WG567867LFB	LFB	06/13/23 15:00	MS230605-2	.05005		.05002	mg/L	100	85	115			
L80780-02AS	AS	06/13/23 15:07	MS230605-2	.05005	.00016	.05476	mg/L	109	70	130			
L80780-02ASD	ASD	06/13/23 15:10	MS230605-2	.05005	.00016	.05335	mg/L	106	70	130	3	20	
WG567867CCV1	CCV	06/13/23 15:24	MS230606-3	.1001		.10343	mg/L	103	90	110			
WG567867CCB1	CCB	06/13/23 15:26				.0001	mg/L		-0.0003	0.0003			
WG567867CCV2	CCV	06/13/23 15:51	MS230606-3	.1001		.1053	mg/L	105	90	110			
WG567867CCB2	CCB	06/13/23 15:54				.00018	mg/L		-0.0003	0.0003			
WG567867CCV3	CCV	06/13/23 16:08	MS230606-3	.1001		.10099	mg/L	101	90	110			
WG567867CCB3	CCB	06/13/23 16:10				.00013	mg/L		-0.0003	0.0003			

HECLARIO

ACZ Project ID: **L80780**

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, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG568273													
WG568273ICV	ICV	06/15/23 17:36	MS230410-7	.05		.05054	mg/L	101	90	110			
WG568273ICB	ICB	06/15/23 17:38				U	mg/L		-0.0003	0.0003			
WG567766LRB	LRB	06/15/23 17:40				U	mg/L		-0.00022	0.00022			
WG567766LFB	LFB	06/15/23 17:42	MS230605-2	.05005		.04893	mg/L	98	85	115			
L80780-03LFM	LFM	06/15/23 17:53	MS230605-2	.05005	.00014	.04905	mg/L	98	70	130			
WG568273CCV1	CCV	06/15/23 17:54	MS230606-3	.1001		.10378	mg/L	104	90	110			
WG568273CCB1	CCB	06/15/23 17:56				U	mg/L		-0.0003	0.0003			
L80780-03LFMD	LFMD	06/15/23 17:58	MS230605-2	.05005	.00014	.04885	mg/L	97	70	130	0	20	
WG568273CCV2	CCV	06/15/23 18:16	MS230606-3	.1001		.0983	mg/L	98	90	110			
WG568273CCB2	CCB	06/15/23 18:18				U	mg/L		-0.0003	0.0003			
WG568273CCV3	CCV	06/15/23 18:35	MS230606-3	.1001		.09693	mg/L	97	90	110			
WG568273CCB3	CCB	06/15/23 18:36				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
WG567499													
WG567499ICV	ICV	06/07/23 2:02	II230516-3	42.8		41.03	mg/L	96	95	105			
WG567499ICB	ICB	06/07/23 2:07				U	mg/L		-0.6	0.6			
WG567499PQV	PQV	06/07/23 2:10	II230516-2	1.071391		1.06	mg/L	99	70	130			
WG567499SIC	SIC	06/07/23 2:13	II230601-2	1.071391		1.08	mg/L	101	80	120			
WG567499LFB	LFB	06/07/23 2:20	II230530-2	21.42782		20.83	mg/L	97	85	115			
WG567499CCV1	CCV	06/07/23 2:50	II230525-1	21.4		20.37	mg/L	95	90	110			
WG567499CCB1	CCB	06/07/23 2:53				U	mg/L		-0.6	0.6			
L80771-01AS	AS	06/07/23 3:08	II230530-2	21.42782	.8	22.57	mg/L	102	85	115			
L80771-01ASD	ASD	06/07/23 3:11	II230530-2	21.42782	.8	22.76	mg/L	102	85	115	1	20	
WG567499CCV2	CCV	06/07/23 3:27	II230525-1	21.4		20.68	mg/L	97	90	110			
WG567499CCB2	CCB	06/07/23 3:30				U	mg/L		-0.6	0.6			
WG567499CCV3	CCV	06/07/23 3:48	II230525-1	21.4		20.22	mg/L	94	90	110			
WG567499CCB3	CCB	06/07/23 3:51				U	mg/L		-0.6	0.6			

Silica, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG567877													
WG567877ICV	ICV	06/13/23 13:42	II230608-1	42.8		41.67	mg/L	97	95	105			
WG567877ICB	ICB	06/13/23 13:48				U	mg/L		-0.6	0.6			
WG567877PQV	PQV	06/13/23 13:51	II230516-2	1.071391		1.04	mg/L	97	70	130			
WG567877SIC	SIC	06/13/23 13:54	II230601-2	1.071391		1.05	mg/L	98	80	120			
WG567532LRB	LRB	06/13/23 14:00				U	mg/L		-0.44	0.44			
WG567532LFB	LFB	06/13/23 14:03	II230530-2	21.42782		20.79	mg/L	97	85	115			
L80780-02LFM	LFM	06/13/23 14:12	II230530-2	21.42782	33.7	49.78	mg/L	75	70	130			
L80780-02LFMD	LFMD	06/13/23 14:15	II230530-2	21.42782	33.7	35.4	mg/L	8	70	130	34	20	M2 RS
WG567877CCV1	CCV	06/13/23 14:30	II230525-1	21.4		22.56	mg/L	105	90	110			
WG567877CCB1	CCB	06/13/23 14:33				U	mg/L		-0.6	0.6			
WG567877CCV2	CCV	06/13/23 14:40	II230525-1	21.4		22.29	mg/L	104	90	110			
WG567877CCB2	CCB	06/13/23 14:43				U	mg/L		-0.6	0.6			

HECLARIO

ACZ Project ID: **L80780**

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

Silver, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG567867													
WG567867ICV	ICV	06/13/23 14:56	MS230410-7	.02		.02205	mg/L	110	90	110			
WG567867ICB	ICB	06/13/23 14:58				U	mg/L		-0.00022	0.00022			
WG567867LFB	LFB	06/13/23 15:00	MS230605-2	.01001		.01093	mg/L	109	85	115			
L80780-02AS	AS	06/13/23 15:07	MS230605-2	.01001	U	.01128	mg/L	113	70	130			
L80780-02ASD	ASD	06/13/23 15:10	MS230605-2	.01001	U	.0111	mg/L	111	70	130	2	20	
WG567867CCV1	CCV	06/13/23 15:24	MS230606-3	.025025		.02707	mg/L	108	90	110			
WG567867CCB1	CCB	06/13/23 15:26				U	mg/L		-0.0003	0.0003			
WG567867CCB2	CCB	06/13/23 15:54				U	mg/L		-0.0003	0.0003			
WG567867CCB3	CCB	06/13/23 16:10				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
WG568273													
WG568273ICV	ICV	06/15/23 17:36	MS230410-7	.02		.02169	mg/L	108	90	110			
WG568273ICB	ICB	06/15/23 17:38				U	mg/L		-0.0003	0.0003			
WG567766LRB	LRB	06/15/23 17:40				U	mg/L		-0.00022	0.00022			
WG567766LFB	LFB	06/15/23 17:42	MS230605-2	.01001		.01034	mg/L	103	85	115			
L80780-03LFM	LFM	06/15/23 17:53	MS230605-2	.01001	.00012	.01041	mg/L	103	70	130			
WG568273CCV1	CCV	06/15/23 17:54	MS230606-3	.025025		.02507	mg/L	100	90	110			
WG568273CCB1	CCB	06/15/23 17:56				U	mg/L		-0.0003	0.0003			
L80780-03LFMD	LFMD	06/15/23 17:58	MS230605-2	.01001	.00012	.01021	mg/L	101	70	130	2	20	
WG568273CCV2	CCV	06/15/23 18:16	MS230606-3	.025025		.02527	mg/L	101	90	110			
WG568273CCB2	CCB	06/15/23 18:18				U	mg/L		-0.0003	0.0003			
WG568273CCV3	CCV	06/15/23 18:35	MS230606-3	.025025		.02533	mg/L	101	90	110			
WG568273CCB3	CCB	06/15/23 18:36				U	mg/L		-0.0003	0.0003			

Sodium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG567499													
WG567499ICV	ICV	06/07/23 2:02	II230516-3	100		101	mg/L	101	95	105			
WG567499ICB	ICB	06/07/23 2:07				U	mg/L		-0.6	0.6			
WG567499PQV	PQV	06/07/23 2:10	II230516-2	1.000141		1	mg/L	100	70	130			
WG567499SIC	SIC	06/07/23 2:13	II230601-2	1.000141		1.1	mg/L	110	80	120			
WG567499LFB	LFB	06/07/23 2:20	II230530-2	100.0094		101.2	mg/L	101	85	115			
WG567499CCV1	CCV	06/07/23 2:50	II230525-1	50		48.91	mg/L	98	90	110			
WG567499CCB1	CCB	06/07/23 2:53				U	mg/L		-0.6	0.6			
L80771-01AS	AS	06/07/23 3:08	II230530-2	100.0094	42.3	148.6	mg/L	106	85	115			
L80771-01ASD	ASD	06/07/23 3:11	II230530-2	100.0094	42.3	147.8	mg/L	105	85	115	1	20	
WG567499CCV2	CCV	06/07/23 3:27	II230525-1	50		49.77	mg/L	100	90	110			
WG567499CCB2	CCB	06/07/23 3:30				U	mg/L		-0.6	0.6			
WG567499CCV3	CCV	06/07/23 3:48	II230525-1	50		49.76	mg/L	100	90	110			
WG567499CCB3	CCB	06/07/23 3:51				.45	mg/L		-0.6	0.6			

HECLARIO

ACZ Project ID: **L80780**

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

Sulfate

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG567935													
WG567935ICV	ICV	06/12/23 14:00	WI230612-5	50		51.02	mg/L	102	90	110			
WG567935ICB	ICB	06/12/23 14:18				U	mg/L		-0.4	0.4			
WG568254													
WG568254CCV1	CCV	06/16/23 8:35	WI230614-10	50		51.07	mg/L	102	90	110			
WG568254CCB1	CCB	06/16/23 8:53				U	mg/L		-0.4	0.4			
WG568254PQV	PQV	06/16/23 9:11	WI230615-8	1.954		1.81	mg/L	93	70	130			
WG568254LFB	LFB	06/16/23 9:29	WI230302-10	30		31.02	mg/L	103	90	110			
WG568254CCV2	CCV	06/16/23 12:11	WI230614-10	50		50	mg/L	100	90	110			
WG568254CCB2	CCB	06/16/23 12:29				U	mg/L		-0.4	0.4			
WG568254CCV3	CCV	06/16/23 15:46	WI230614-10	50		49.9	mg/L	100	90	110			
WG568254CCB3	CCB	06/16/23 16:04				U	mg/L		-0.4	0.4			
L80780-03DUP	DUP	06/16/23 16:57			12.1	12.11	mg/L				0	20	
L80780-04AS	AS	06/16/23 17:33	WI230302-10	30	.99	31.17	mg/L	101	90	110			
WG568254CCV4	CCV	06/16/23 18:09	WI230614-10	50		49.98	mg/L	100	90	110			
WG568254CCB4	CCB	06/16/23 18:27				U	mg/L		-0.4	0.4			
WG568518													
WG568518CCV1	CCV	06/19/23 15:55	WI230614-10	50		50.24	mg/L	100	90	110			
WG568518CCB1	CCB	06/19/23 16:12				U	mg/L		-0.4	0.4			
WG568518PQV	PQV	06/19/23 16:30	WI230615-8	1.954		1.98	mg/L	101	70	130			
WG568518LFB1	LFB	06/19/23 16:48	WI230302-10	30		30.75	mg/L	103	90	110			
WG568518CCV2	CCV	06/19/23 19:30	WI230614-10	50		49.88	mg/L	100	90	110			
WG568518CCB2	CCB	06/19/23 19:48				U	mg/L		-0.4	0.4			
L80767-06AS	AS	06/19/23 20:06	WI230302-10	30	9.83	41.59	mg/L	106	90	110			
L80780-05DUP	DUP	06/19/23 20:41			37	36.94	mg/L				0	20	
WG568518CCV3	CCV	06/19/23 23:05	WI230614-10	50		50.1	mg/L	100	90	110			
WG568518CCB3	CCB	06/19/23 23:23				U	mg/L		-0.4	0.4			
WG568518LFB2	LFB	06/20/23 1:28	WI230302-10	30		28.8	mg/L	96	90	110			
WG568518CCV4	CCV	06/20/23 2:40	WI230614-10	50		49.76	mg/L	100	90	110			
WG568518CCB4	CCB	06/20/23 2:58				U	mg/L		-0.4	0.4			
WG568518CCV5	CCV	06/20/23 5:57	WI230614-10	50		49.75	mg/L	100	90	110			
WG568518CCB5	CCB	06/20/23 6:15				U	mg/L		-0.4	0.4			

HECLARIO

ACZ Project ID: **L80780**

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
WG567210													
WG567210ICV	ICV	06/01/23 10:45	WC230531-3	.33066		.31	mg/L	94	90	110			
WG567210ICB	ICB	06/01/23 10:48				U	mg/L		-0.05	0.05			
WG567210LFB1	LFB	06/01/23 10:51	WC230531-6	.2142267		.201	mg/L	94	80	120			
WG567210CCV1	CCV	06/01/23 11:25	WC230531-4	.16067		.153	mg/L	95	90	110			
WG567210CCB1	CCB	06/01/23 11:28				U	mg/L		-0.05	0.05			
WG567210CCV2	CCV	06/01/23 12:05	WC230531-4	.16067		.152	mg/L	95	90	110			
WG567210CCB2	CCB	06/01/23 12:08				U	mg/L		-0.05	0.05			
WG567210LFB2	LFB	06/01/23 12:28	WC230531-6	.2142267		.196	mg/L	91	80	120			
WG567210CCV3	CCV	06/01/23 12:45	WC230531-4	.16067		.153	mg/L	95	90	110			
WG567210CCB3	CCB	06/01/23 12:48				U	mg/L		-0.05	0.05			
L80780-04AS	AS	06/01/23 13:11	WC230531-6	.2142267	U	.073	mg/L	34	75	125			M2
L80780-04ASD	ASD	06/01/23 13:15	WC230531-6	.2142267	U	.074	mg/L	35	75	125	1	20	M2
L80780-05AS	AS	06/01/23 13:21	WC230531-6	.2142267	U	.069	mg/L	32	75	125			M2
WG567210CCV4	CCV	06/01/23 13:25	WC230531-4	.16067		.153	mg/L	95	90	110			
WG567210CCB4	CCB	06/01/23 13:28				U	mg/L		-0.05	0.05			
L80780-05ASD	ASD	06/01/23 13:31	WC230531-6	.2142267	U	.071	mg/L	33	75	125	3	20	M2
WG567210CCV5	CCV	06/01/23 13:41	WC230531-4	.16067		.153	mg/L	95	90	110			
WG567210CCB5	CCB	06/01/23 13:45				U	mg/L		-0.05	0.05			

Uranium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG567867													
WG567867ICV	ICV	06/13/23 14:56	MS230410-7	.05		.05222	mg/L	104	90	110			
WG567867ICB	ICB	06/13/23 14:58				U	mg/L		-0.00022	0.00022			
WG567867LFB	LFB	06/13/23 15:00	MS230605-2	.05		.04874	mg/L	97	85	115			
L80780-02AS	AS	06/13/23 15:07	MS230605-2	.05	.00011	.05442	mg/L	109	70	130			
L80780-02ASD	ASD	06/13/23 15:10	MS230605-2	.05	.00011	.05281	mg/L	105	70	130	3	20	
WG567867CCV1	CCV	06/13/23 15:24	MS230606-3	.1		.10164	mg/L	102	90	110			
WG567867CCB1	CCB	06/13/23 15:26				U	mg/L		-0.0003	0.0003			
WG567867CCV2	CCV	06/13/23 15:51	MS230606-3	.1		.10308	mg/L	103	90	110			
WG567867CCB2	CCB	06/13/23 15:54				U	mg/L		-0.0003	0.0003			
WG567867CCV3	CCV	06/13/23 16:08	MS230606-3	.1		.09876	mg/L	99	90	110			
WG567867CCB3	CCB	06/13/23 16:10				U	mg/L		-0.0003	0.0003			

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ACZ Project ID: **L80780**

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

Uranium, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG568273													
WG568273ICV	ICV	06/15/23 17:36	MS230410-7	.05		.05157	mg/L	103	90	110			
WG568273ICB	ICB	06/15/23 17:38				U	mg/L		-0.0003	0.0003			
WG567766LRB	LRB	06/15/23 17:40				U	mg/L		-0.00022	0.00022			
WG567766LFB	LFB	06/15/23 17:42	MS230605-2	.05		.04921	mg/L	98	85	115			
L80780-03LFM	LFM	06/15/23 17:53	MS230605-2	.05	.00023	.05034	mg/L	100	70	130			
WG568273CCV1	CCV	06/15/23 17:54	MS230606-3	.1		.10122	mg/L	101	90	110			
WG568273CCB1	CCB	06/15/23 17:56				U	mg/L		-0.0003	0.0003			
L80780-03LFMD	LFMD	06/15/23 17:58	MS230605-2	.05	.00023	.04886	mg/L	97	70	130	3	20	
WG568273CCV2	CCV	06/15/23 18:16	MS230606-3	.1		.09914	mg/L	99	90	110			
WG568273CCB2	CCB	06/15/23 18:18				U	mg/L		-0.0003	0.0003			
WG568273CCV3	CCV	06/15/23 18:35	MS230606-3	.1		.10017	mg/L	100	90	110			
WG568273CCB3	CCB	06/15/23 18:36				U	mg/L		-0.0003	0.0003			

Zinc, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG567867													
WG567867ICV	ICV	06/13/23 14:56	MS230410-7	.05		.0484	mg/L	97	90	110			
WG567867ICB	ICB	06/13/23 14:58				U	mg/L		-0.0132	0.0132			
WG567867LFB	LFB	06/13/23 15:00	MS230605-2	.050075		.0533	mg/L	106	85	115			
L80780-02AS	AS	06/13/23 15:07	MS230605-2	.050075	.872	.9318	mg/L	119	70	130			
L80780-02ASD	ASD	06/13/23 15:10	MS230605-2	.050075	.872	.9203	mg/L	96	70	130	1	20	
WG567867CCV1	CCV	06/13/23 15:24	MS230606-3	.50075		.5184	mg/L	104	90	110			
WG567867CCB1	CCB	06/13/23 15:26				U	mg/L		-0.018	0.018			
WG567867CCV2	CCV	06/13/23 15:51	MS230606-3	.50075		.5247	mg/L	105	90	110			
WG567867CCB2	CCB	06/13/23 15:54				U	mg/L		-0.018	0.018			
WG567867CCV3	CCV	06/13/23 16:08	MS230606-3	.50075		.5024	mg/L	100	90	110			
WG567867CCB3	CCB	06/13/23 16:10				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
WG568273													
WG568273ICV	ICV	06/15/23 17:36	MS230410-7	.05		.0479	mg/L	96	90	110			
WG568273ICB	ICB	06/15/23 17:38				U	mg/L		-0.018	0.018			
WG567766LRB	LRB	06/15/23 17:40				U	mg/L		-0.0132	0.0132			
WG567766LFB	LFB	06/15/23 17:42	MS230605-2	.050075		.0501	mg/L	100	85	115			
L80780-03LFM	LFM	06/15/23 17:53	MS230605-2	.050075	.252	.3056	mg/L	107	70	130			
WG568273CCV1	CCV	06/15/23 17:54	MS230606-3	.50075		.5006	mg/L	100	90	110			
WG568273CCB1	CCB	06/15/23 17:56				U	mg/L		-0.018	0.018			
L80780-03LFMD	LFMD	06/15/23 17:58	MS230605-2	.050075	.252	.2958	mg/L	87	70	130	3	20	
WG568273CCV2	CCV	06/15/23 18:16	MS230606-3	.50075		.4999	mg/L	100	90	110			
WG568273CCB2	CCB	06/15/23 18:18				U	mg/L		-0.018	0.018			
WG568273CCV3	CCV	06/15/23 18:35	MS230606-3	.50075		.507	mg/L	101	90	110			
WG568273CCB3	CCB	06/15/23 18:36				U	mg/L		-0.018	0.018			

Rio Grande Silver, Inc.

ACZ Project ID: **L80780**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L80780-01	WG567670	Aluminum, total recoverable	M200.7 ICP	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG567499	Calcium, dissolved	M200.7 ICP	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG567700	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).
	WG568580	Chemical Oxygen Demand	M410.4	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			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).
	WG568254	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).
	WG568389	Fluoride	SM4500F-C	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG567499	Manganese, dissolved	M200.7 ICP	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG567174	Nitrite as N	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).
	WG567890	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).
	WG568417	Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG568319	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).
	WG567412	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).
			SM2540C	Z5	Oven temperature observed out of range. Sample and Quality Control attained a consistent weight and all Quality controls were within limits. Reanalyze at client request
	WG567338	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
	WG567877	Silica, total recoverable	M200.7 ICP	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M200.7 ICP	RS	RPD of matrix spikes for total or total recoverable silica is outside acceptance limits. Acceptable precision for other metals indicates silica RPD failure may be attributed to digestion-triggered silica polymerization and precipitation.
			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.
	WG567210	Sulfide as S	SM4500S2-D	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.

Rio Grande Silver, Inc.

ACZ Project ID: **L80780**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L80780-02	WG567670	Aluminum, total recoverable	M200.7 ICP	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG567499	Calcium, dissolved	M200.7 ICP	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG567700	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).
	WG568580	Chemical Oxygen Demand	M410.4	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			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).
	WG568254	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).
	WG568389	Fluoride	SM4500F-C	DL	Sample required dilution due to high AL and/or FE value.
			SM4500F-C	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG567499	Manganese, dissolved	M200.7 ICP	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG567174	Nitrite as N	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).
	WG567890	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).
	WG568417	Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG567412	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).
			SM2540C	Z5	Oven temperature observed out of range. Sample and Quality Control attained a consistent weight and all Quality controls were within limits. Reanalyze at client request
	WG567338	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
	WG567877	Silica, total recoverable	M200.7 ICP	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M200.7 ICP	RS	RPD of matrix spikes for total or total recoverable silica is outside acceptance limits. Acceptable precision for other metals indicates silica RPD failure may be attributed to digestion-triggered silica polymerization and precipitation.
			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.
	WG567210	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	QB	Method-specified preservation criteria cannot be met due to sample matrix.

Rio Grande Silver, Inc.

ACZ Project ID: **L80780**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L80780-03	WG567670	Aluminum, total recoverable	M200.7 ICP	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG567499	Calcium, dissolved	M200.7 ICP	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG567700	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).
	WG568580	Chemical Oxygen Demand	M410.4	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			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).
	WG568254	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).
	WG568389	Fluoride	SM4500F-C	DL	Sample required dilution due to high AL and/or FE value.
			SM4500F-C	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG567499	Manganese, dissolved	M200.7 ICP	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG567174	Nitrite as N	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).
	WG567890	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).
	WG568417	Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG567412	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).
			SM2540C	Z5	Oven temperature observed out of range. Sample and Quality Control attained a consistent weight and all Quality controls were within limits. Reanalyze at client request
	WG567338	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
	WG567877	Silica, total recoverable	M200.7 ICP	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M200.7 ICP	RS	RPD of matrix spikes for total or total recoverable silica is outside acceptance limits. Acceptable precision for other metals indicates silica RPD failure may be attributed to digestion-triggered silica polymerization and precipitation.
			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.
	WG567210	Sulfide as S	SM4500S2-D	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.

Rio Grande Silver, Inc.

ACZ Project ID: **L80780**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L80780-04	WG567670	Aluminum, total recoverable	M200.7 ICP	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG567499	Calcium, dissolved	M200.7 ICP	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG567700	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).
	WG568922	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).
	WG568254	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).
	WG568389	Fluoride	SM4500F-C	DL	Sample required dilution due to high AL and/or FE value.
			SM4500F-C	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG567499	Manganese, dissolved	M200.7 ICP	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG567174	Nitrite as N	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).
	WG567890	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).
	WG568417	Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG567412	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).
			SM2540C	Z5	Oven temperature observed out of range. Sample and Quality Control attained a consistent weight and all Quality controls were within limits. Reanalyze at client request
	WG567338	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
	WG567877	Silica, total recoverable	M200.7 ICP	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M200.7 ICP	RS	RPD of matrix spikes for total or total recoverable silica is outside acceptance limits. Acceptable precision for other metals indicates silica RPD failure may be attributed to digestion-triggered silica polymerization and precipitation.
			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.
	WG567210	Sulfide as S	SM4500S2-D	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.

Rio Grande Silver, Inc.

ACZ Project ID: **L80780**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L80780-05	WG567670	Aluminum, total recoverable	M200.7 ICP	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG567499	Calcium, dissolved	M200.7 ICP	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG567700	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).
	WG568922	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).
	WG568518	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).
	WG568389	Fluoride	SM4500F-C	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG567499	Manganese, dissolved	M200.7 ICP	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG567174	Nitrite as N	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).
	WG567890	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).
	WG568417	Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG567412	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).
			SM2540C	Z5	Oven temperature observed out of range. Sample and Quality Control attained a consistent weight and all Quality controls were within limits. Reanalyze at client request
	WG567338	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
	WG567877	Silica, total recoverable	M200.7 ICP	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M200.7 ICP	RS	RPD of matrix spikes for total or total recoverable silica is outside acceptance limits. Acceptable precision for other metals indicates silica RPD failure may be attributed to digestion-triggered silica polymerization and precipitation.
			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.
	WG567210	Sulfide as S	SM4500S2-D	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.

Rio Grande Silver, Inc.

Project ID: BO51342

Sample ID: WG-L

ACZ Sample ID: **L80780-01**

Date Sampled: 05/30/23 10:00

Date Received: 05/31/23

Sample Matrix: Surface Water

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

Extract Method:

Workgroup: WG567690

Analyst: MKB

Extract Date:

Analysis Date: 06/09/23 9:52

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
Oil and Grease		<1.9	U	0.971	*	mg/L	1.9	9.7

Rio Grande Silver, Inc.

Project ID: BO51342
Sample ID: WG-9360-B

ACZ Sample ID: **L80780-02**
Date Sampled: 05/30/23 10:45
Date Received: 05/31/23
Sample Matrix: Surface Water

Oil & Grease, Total Recoverable

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

Workgroup: WG567690

Analyst: MKB

Extract Date:

Analysis Date: 06/09/23 10:03

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
Oil and Grease		<1.9	U	0.971	*	mg/L	1.9	9.7

Rio Grande Silver, Inc.

Project ID: BO51342

Sample ID: WG-9700-W

ACZ Sample ID: **L80780-03**

Date Sampled: 05/30/23 11:30

Date Received: 05/31/23

Sample Matrix: Surface Water

Oil & Grease, Total Recoverable

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

Extract Method:

Workgroup: WG567690

Analyst: MKB

Extract Date:

Analysis Date: 06/09/23 10:14

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
Oil and Grease		<1.9	U	0.962	*	mg/L	1.9	9.6

Rio Grande Silver, Inc.

Project ID: BO51342

Sample ID: WG-U

ACZ Sample ID: **L80780-04**

Date Sampled: 05/30/23 12:15

Date Received: 05/31/23

Sample Matrix: Surface Water

Oil & Grease, Total Recoverable

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

Extract Method:

Workgroup: WG567690

Analyst: MKB

Extract Date:

Analysis Date: 06/09/23 10:24

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
Oil and Grease		<1.9	U	0.962	*	mg/L	1.9	9.6

Rio Grande Silver, Inc.

Project ID: BO51342

Sample ID: WG-D

ACZ Sample ID: **L80780-05**

Date Sampled: 05/30/23 10:07

Date Received: 05/31/23

Sample Matrix: Surface Water

Oil & Grease, Total Recoverable

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

Extract Method:

Workgroup: WG567690

Analyst: MKB

Extract Date:

Analysis Date: 06/09/23 10:35

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
Oil and Grease		<1.9	U	0.971	*	mg/L	1.9	9.7


Report Header Explanations

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

QC Sample Types

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

QC Sample Type Explanations

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

ACZ Qualifiers (Qual)

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

Method References

- (1) EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
- (2) EPA 600/4-90/020. Methods for the Determination of Organic Compounds in Drinking Water (I), July 1990.
- (3) EPA 600/R-92/129. Methods for the Determination of Organic Compounds in Drinking Water (II), July 1990.
- (4) EPA SW-846. Test Methods for Evaluating Solid Waste.
- (5) Standard Methods for the Examination of Water and Wastewater.

Comments

- (1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
- (2) Excluding Oil & Grease, solid & biological matrices for organic analyses are reported on a wet weight basis.
- (3) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
- (4) If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

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

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

Rio Grande Silver, Inc.

ACZ Project ID: **L80780**

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

WG567690

MS	Sample ID: L80730-01MS			PCN/SCN: OP230501-1-100				Analyzed:		06/09/23 9:42	
Compound	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual	
OIL AND GREASE	40	U	U	mg/L	0.0	78	114			M2	

LCSW	Sample ID: WG567690LCSW			PCN/SCN: OP230501-1-100				Analyzed:		06/09/23 10:45	
Compound	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual	
OIL AND GREASE	40		34.1	mg/L	85.0	78	114				

LCSWD	Sample ID: WG567690LCSWD			PCN/SCN: OP230501-1-100				Analyzed:		06/09/23 10:56	
Compound	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual	
OIL AND GREASE	40		35.7	mg/L	89.0	78	114	5	18		

PBW	Sample ID: WG567690PBW							Analyzed:		06/09/23 9:00	
Compound	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual	
OIL AND GREASE			U	mg/L							

ACZ Project ID: **L80780**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L80780-01	WG567690	Oil and Grease	1664A/B - Gravimetric	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
L80780-02	WG567690	Oil and Grease	1664A/B - Gravimetric	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
L80780-03	WG567690	Oil and Grease	1664A/B - Gravimetric	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
L80780-04	WG567690	Oil and Grease	1664A/B - Gravimetric	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
L80780-05	WG567690	Oil and Grease	1664A/B - Gravimetric	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.

Rio Grande Silver, Inc.
BO51342

ACZ Project ID: L80780
Date Received: 05/31/2023 11:41
Received By:
Date Printed: 6/1/2023

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	
ENTERED PER QUOTE LABEL ON SAMPLE SUBSET POLY BAGS.			
ENTERED PER QUOTE LABEL ON SAMPLE SUBSET POLY BAGS.			
ENTERED PER QUOTE LABEL ON SAMPLE SUBSET POLY BAGS.			
ENTERED PER QUOTE LABEL ON SAMPLE SUBSET POLY BAGS.			
ENTERED PER QUOTE LABEL ON SAMPLE SUBSET POLY BAGS.			
ENTERED PER QUOTE LABEL ON SAMPLE SUBSET POLY BAGS.			
ENTERED PER QUOTE LABEL ON SAMPLE SUBSET POLY BAGS.			
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	
L80780-02 Container B2694997 (TAN): Added 0 mls 5N sodium hydroxide and 0 mls zinc acetate to the sub-sample. The pH is 7			
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	
Some parameters were received past hold time.			

NA indicates Not Applicable

Chain of Custody Related Remarks

FIELD EQUIP BLANK AND ANY LISTED TRIP BLANKS SHOULD BE INCLUDED ON ONE REPORT. THERE MAY BE

Rio Grande Silver, Inc.
BO51342

ACZ Project ID: L80780

Date Received: 05/31/2023 11:41

Received By:

Date Printed: 6/1/2023

MORE THAN ONE COOLER FOR THIS COC. PLEASE SEND AN ADDITIONAL REPORT TO MCCLURE@HECLA-MINING.COM. WE DID NOT ADD ACID TO THE HG SAMPLES.

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Temp Criteria (°C)	Rad (µR/Hr)	Custody Seal Intact?
2395	3.7	<=6.0	15	Yes
4549	0.4	<=6.0	15	Yes

Was ice present in the shipment container(s)?

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

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

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.**

L80780

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.com

Address: 625 USFS Road 504. 1A

Creede, CO 81130

Telephone: 970-317-5355

Copy of Report to:

Name: Randy McClure

Company: Rio Grande Silver, Inc.

E-mail: rmcclure@hecla.com

Telephone: 970-317-5355

Invoice to:

Name: Randy McClure

Company: Rio Grande Silver, Inc.

E-mail: rmcclure@hecla.com

Address: 625 USFS Road 504. 1A

Creede, CO 81130

Telephone: 970-317-5355

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

YES



NO



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

Are samples for SDWA Compliance Monitoring?

Yes



No



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

Sampler's Name: Randy McClure

Sampler's Site Information

State CO

Zip code 81130

Time Zone MST

*Sampler's Signature: _____

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

PROJECT INFORMATION

ANALYSES REQUESTED (attach list or use quote number)

PO#: BO51342

Reporting state for compliance testing:

Check box if samples include NRC licensed material?



SAMPLE IDENTIFICATION

DATE:TIME

Matrix

of Containers

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers															
WG-L	5/30/23: 10:00am	SW	9	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
WG-9360-B	5/30/23: 10:45am	SW	9	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
WG-9700-W	5/30/23: 11:30am	SW	9	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
WG-U	5/30/23: 12:15pm	SW	9	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
WG-D	5/30/23: 10:07am	SW	9	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Trip Blank	5/30/23: 10:00am	SW	1	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
(Mercury using 1631				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
samples not filtered or				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
preserved)				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

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

REMARKS

Field Equip Blank and any listed trip blanks should be included on one report. There may be more than one Cooler for this COC. Please send an additional report to 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

5/30 1:15pm



5/31/23 1141



L80780 Chain of Custody