

October 26, 2020

Report to:

Jake Wilkinson
CRG Mining, LLC
510 S Wisconsin St
Gunnison, CO 80231

Bill to:

Jake Wilkinson
CRG Mining, LLC
510 S Wisconsin St
Gunnison, CO 80231

Project ID: 2020 Q3

ACZ Project ID: L62119

Jake Wilkinson:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on October 13, 2020. This project has been assigned to ACZ's project number, L62119. Please reference this number in all future inquiries.

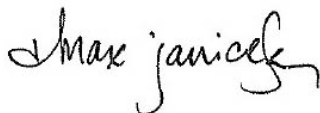
All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L62119. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

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 November 25, 2020. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

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



Max Janicek has reviewed and
approved this report.



CRG Mining, LLC

October 26, 2020

Project ID: 2020 Q3

ACZ Project ID: L62119

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 9 miscellaneous samples from CRG Mining, LLC on October 13, 2020. The samples were received in good condition. Upon receipt, the sample custodian removed the samples from the cooler, inspected the contents, and logged the samples into ACZ's computerized Laboratory Information Management System (LIMS). The samples were assigned ACZ LIMS project number L62119. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Holding Times

All analyses were performed within EPA recommended holding times.

Sample Analysis

These samples were analyzed for inorganic parameters. The individual methods are referenced on both the ACZ invoice and the analytical reports. The extended qualifier reports may contain footnotes qualifying specific elements due to QC failures. In addition, the following has been noted with this specific project:

The below is from WG507513

Qualifier: N1

Applies to:

L62119-08/TOTAL DISSOLVED SOLIDS

L62119-09/TOTAL DISSOLVED SOLIDS

Oven range is 80 C to 91 C. Over the weekend, the oven had a minor exceedance in oven temperature. When the oven temperature was checked on Monday 10/19/20, the max temp read at 93.4 C. The WG was removed from the oven on 10/19/20 when the oven was back in range. The WG was examined and there was no splattering of samples.

CRG Mining, LLC

Project ID: 2020 Q3

Sample ID: GL 1

ACZ Sample ID: **L62119-01**

Date Sampled: 10/12/20 10:15

Date Received: 10/13/20

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						10/14/20 14:03	syw
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								10/15/20 16:33	kja

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	<0.05	U		mg/L	0.05	0.25	10/20/20 16:27	kja
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	10/20/20 15:56	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.001	10/20/20 15:56	mfm
Barium, dissolved	M200.7 ICP	1	0.0126	B		mg/L	0.007	0.035	10/20/20 16:27	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	10/20/20 15:56	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	10/20/20 15:56	mfm
Calcium, dissolved	M200.7 ICP	1	14.0			mg/L	0.1	0.5	10/20/20 16:27	kja
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	10/20/20 15:56	mfm
Cobalt, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/21/20 11:06	kja
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/20/20 16:27	kja
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	10/20/20 16:27	kja
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	10/20/20 15:56	mfm
Magnesium, dissolved	M200.7 ICP	1	5.04			mg/L	0.2	1	10/20/20 16:27	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/20/20 16:27	kja
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	10/21/20 11:44	llr
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	10/20/20 16:27	kja
Potassium, dissolved	M200.7 ICP	1	0.66	B		mg/L	0.2	1	10/20/20 16:27	kja
Sodium, dissolved	M200.7 ICP	1	2.00			mg/L	0.2	1	10/20/20 16:27	kja
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	10/21/20 20:01	kja
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	10/20/20 16:27	kja

CRG Mining, LLC

Project ID: 2020 Q3

Sample ID: GL 1

ACZ Sample ID: **L62119-01**

Date Sampled: 10/12/20 10:15

Date Received: 10/13/20

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	63.6			mg/L	2	20	10/15/20 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	10/15/20 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	10/15/20 0:00	eep
Total Alkalinity		1	63.6			mg/L	2	20	10/15/20 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-7.7			%			10/23/20 0:00	calc
Sum of Anions			1.4			meq/L			10/23/20 0:00	calc
Sum of Cations			1.2			meq/L			10/23/20 0:00	calc
Chloride	SM4500Cl-E	1	<0.5	U	*	mg/L	0.5	2	10/17/20 13:25	ttg
Conductivity @25C	SM2510B	1	119			umhos/cm	1	10	10/15/20 4:47	eep
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	10/14/20 17:09	syw
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		56			mg/L	0.2	5	10/23/20 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							10/14/20 14:49	scd
Nitrate as N, dissolved	Calculation: NO ₃ NO ₂ minus NO ₂		0.11			mg/L	0.02	0.1	10/23/20 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.112		*	mg/L	0.02	0.1	10/13/20 22:05	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	U	*	mg/L	0.01	0.05	10/13/20 22:05	pjb
pH (lab)	SM4500H+ B									
pH		1	8.0	H		units	0.1	0.1	10/15/20 0:00	eep
pH measured at		1	19.5			C	0.1	0.1	10/15/20 0:00	eep
Residue, Filterable (TDS) @180C	SM2540C	1	78		*	mg/L	20	40	10/14/20 19:33	scd
Sulfate	D516-02/-07/-11 - Turbidimetric	1	3.9	B		mg/L	1	5	10/19/20 12:11	rbt

CRG Mining, LLC

Project ID: 2020 Q3

Sample ID: GL 2

ACZ Sample ID: **L62119-02**

Date Sampled: 10/12/20 10:09

Date Received: 10/13/20

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						10/14/20 14:15	syw
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								10/15/20 16:33	kja

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	<0.05	U		mg/L	0.05	0.25	10/20/20 16:30	kja
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	10/20/20 15:58	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00274			mg/L	0.0002	0.001	10/20/20 15:58	mfm
Barium, dissolved	M200.7 ICP	1	0.0114	B		mg/L	0.007	0.035	10/20/20 16:30	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	10/20/20 15:58	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	0.00210			mg/L	0.00005	0.00025	10/20/20 15:58	mfm
Calcium, dissolved	M200.7 ICP	1	23.3			mg/L	0.1	0.5	10/20/20 16:30	kja
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	10/20/20 15:58	mfm
Cobalt, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/21/20 11:09	kja
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/20/20 16:30	kja
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	10/20/20 16:30	kja
Lead, dissolved	M200.8 ICP-MS	1	0.00010	B		mg/L	0.0001	0.0005	10/20/20 15:58	mfm
Magnesium, dissolved	M200.7 ICP	1	7.11			mg/L	0.2	1	10/20/20 16:30	kja
Manganese, dissolved	M200.7 ICP	1	0.025	B		mg/L	0.01	0.05	10/20/20 16:30	kja
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	10/21/20 11:49	llr
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	10/20/20 16:30	kja
Potassium, dissolved	M200.7 ICP	1	0.85	B		mg/L	0.2	1	10/20/20 16:30	kja
Sodium, dissolved	M200.7 ICP	1	4.12			mg/L	0.2	1	10/20/20 16:30	kja
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	10/21/20 20:05	kja
Zinc, dissolved	M200.7 ICP	1	0.238			mg/L	0.02	0.05	10/20/20 16:30	kja

CRG Mining, LLC

Project ID: 2020 Q3

Sample ID: GL 2

ACZ Sample ID: **L62119-02**

Date Sampled: 10/12/20 10:09

Date Received: 10/13/20

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	75.6			mg/L	2	20	10/15/20 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	10/15/20 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	10/15/20 0:00	eep
Total Alkalinity		1	75.6			mg/L	2	20	10/15/20 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-4.8			%			10/23/20 0:00	calc
Sum of Anions			2.2			meq/L			10/23/20 0:00	calc
Sum of Cations			2			meq/L			10/23/20 0:00	calc
Chloride	SM4500Cl-E	1	0.73	B	*	mg/L	0.5	2	10/17/20 13:26	ttg
Conductivity @25C	SM2510B	1	203			umhos/cm	1	10	10/15/20 5:37	eep
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	10/14/20 17:10	syw
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		88			mg/L	0.2	5	10/23/20 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							10/14/20 14:59	scd
Nitrate as N, dissolved	Calculation: NO ₃ NO ₂ minus NO ₂		0.14			mg/L	0.02	0.1	10/23/20 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.137		*	mg/L	0.02	0.1	10/13/20 22:06	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	U	*	mg/L	0.01	0.05	10/13/20 22:06	pjb
pH (lab)	SM4500H+ B									
pH		1	8.1	H		units	0.1	0.1	10/15/20 0:00	eep
pH measured at		1	19.7			C	0.1	0.1	10/15/20 0:00	eep
Residue, Filterable (TDS) @180C	SM2540C	1	128		*	mg/L	20	40	10/14/20 19:35	scd
Sulfate	D516-02/-07/-11 - Turbidimetric	1	30.6			mg/L	1	5	10/19/20 12:11	rbt

CRG Mining, LLC

Project ID: 2020 Q3

Sample ID: GL 3

ACZ Sample ID: **L62119-03**

Date Sampled: 10/12/20 10:27

Date Received: 10/13/20

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						10/14/20 14:26	syw
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								10/15/20 16:33	kja

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	<0.05	U		mg/L	0.05	0.25	10/20/20 16:33	kja
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	10/20/20 15:59	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00026	B		mg/L	0.0002	0.001	10/20/20 15:59	mfm
Barium, dissolved	M200.7 ICP	1	0.0128	B		mg/L	0.007	0.035	10/20/20 16:33	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	10/20/20 15:59	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	0.000195	B		mg/L	0.00005	0.00025	10/20/20 15:59	mfm
Calcium, dissolved	M200.7 ICP	1	15.2			mg/L	0.1	0.5	10/20/20 16:33	kja
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	10/20/20 15:59	mfm
Cobalt, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/21/20 11:12	kja
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/20/20 16:33	kja
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	10/20/20 16:33	kja
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	10/20/20 15:59	mfm
Magnesium, dissolved	M200.7 ICP	1	5.35			mg/L	0.2	1	10/20/20 16:33	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/20/20 16:33	kja
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	10/21/20 11:50	llr
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	10/20/20 16:33	kja
Potassium, dissolved	M200.7 ICP	1	0.65	B		mg/L	0.2	1	10/20/20 16:33	kja
Sodium, dissolved	M200.7 ICP	1	2.22			mg/L	0.2	1	10/20/20 16:33	kja
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	10/21/20 20:14	kja
Zinc, dissolved	M200.7 ICP	1	0.027	B		mg/L	0.02	0.05	10/20/20 16:33	kja

CRG Mining, LLC

Project ID: 2020 Q3

Sample ID: GL 3

ACZ Sample ID: **L62119-03**

Date Sampled: 10/12/20 10:27

Date Received: 10/13/20

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	65.4			mg/L	2	20	10/15/20 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	10/15/20 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	10/15/20 0:00	eep
Total Alkalinity		1	65.4			mg/L	2	20	10/15/20 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-7.1			%			10/23/20 0:00	calc
Sum of Anions			1.5			meq/L			10/23/20 0:00	calc
Sum of Cations			1.3			meq/L			10/23/20 0:00	calc
Chloride	SM4500Cl-E	1	0.63	B	*	mg/L	0.5	2	10/17/20 13:26	ttg
Conductivity @25C	SM2510B	1	131			umhos/cm	1	10	10/15/20 5:47	eep
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	10/14/20 17:11	syw
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		60.0			mg/L	0.2	5	10/23/20 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							10/14/20 15:09	scd
Nitrate as N, dissolved	Calculation: NO ₃ NO ₂ minus NO ₂		0.1			mg/L	0.02	0.1	10/23/20 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.097		*	mg/L	0.02	0.1	10/13/20 22:09	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	U	*	mg/L	0.01	0.05	10/13/20 22:09	pjb
pH (lab)	SM4500H+ B									
pH		1	8.1	H		units	0.1	0.1	10/15/20 0:00	eep
pH measured at		1	19.7			C	0.1	0.1	10/15/20 0:00	eep
Residue, Filterable (TDS) @180C	SM2540C	1	84		*	mg/L	20	40	10/14/20 19:38	scd
Sulfate	D516-02/-07/-11 - Turbidimetric	1	6.0			mg/L	1	5	10/19/20 12:12	rbt

CRG Mining, LLC

Project ID: 2020 Q3

Sample ID: RM 1

ACZ Sample ID: **L62119-04**

Date Sampled: 10/12/20 10:40

Date Received: 10/13/20

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						10/14/20 14:38	syw
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								10/15/20 16:33	kja

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	<0.05	U		mg/L	0.05	0.25	10/20/20 16:36	kja
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	10/20/20 16:01	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.001	10/20/20 16:01	mfm
Barium, dissolved	M200.7 ICP	1	0.0125	B		mg/L	0.007	0.035	10/20/20 16:36	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	10/20/20 16:01	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	0.000158	B		mg/L	0.00005	0.00025	10/20/20 16:01	mfm
Calcium, dissolved	M200.7 ICP	1	17.1			mg/L	0.1	0.5	10/20/20 16:36	kja
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	10/20/20 16:01	mfm
Cobalt, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/21/20 11:15	kja
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/20/20 16:36	kja
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	10/20/20 16:36	kja
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	10/20/20 16:01	mfm
Magnesium, dissolved	M200.7 ICP	1	5.70			mg/L	0.2	1	10/20/20 16:36	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/20/20 16:36	kja
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	10/21/20 11:51	llr
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	10/20/20 16:36	kja
Potassium, dissolved	M200.7 ICP	1	0.69	B		mg/L	0.2	1	10/20/20 16:36	kja
Sodium, dissolved	M200.7 ICP	1	2.02			mg/L	0.2	1	10/20/20 16:36	kja
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	10/21/20 20:18	kja
Zinc, dissolved	M200.7 ICP	1	0.024	B		mg/L	0.02	0.05	10/20/20 16:36	kja

CRG Mining, LLC

Project ID: 2020 Q3

Sample ID: RM 1

ACZ Sample ID: **L62119-04**

Date Sampled: 10/12/20 10:40

Date Received: 10/13/20

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	71.9			mg/L	2	20	10/15/20 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	10/15/20 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	10/15/20 0:00	eep
Total Alkalinity		1	71.9			mg/L	2	20	10/15/20 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-6.7			%			10/23/20 0:00	calc
Sum of Anions			1.6			meq/L			10/23/20 0:00	calc
Sum of Cations			1.4			meq/L			10/23/20 0:00	calc
Chloride	SM4500Cl-E	1	0.61	B	*	mg/L	0.5	2	10/17/20 13:27	ttg
Conductivity @25C	SM2510B	1	141			umhos/cm	1	10	10/15/20 5:58	eep
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	10/14/20 17:12	syw
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		66			mg/L	0.2	5	10/23/20 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							10/14/20 15:19	scd
Nitrate as N, dissolved	Calculation: NO ₃ NO ₂ minus NO ₂		0.08	B		mg/L	0.02	0.1	10/23/20 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.075	B	*	mg/L	0.02	0.1	10/13/20 22:16	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	U	*	mg/L	0.01	0.05	10/13/20 22:16	pjb
pH (lab)	SM4500H+ B									
pH		1	8.1	H		units	0.1	0.1	10/15/20 0:00	eep
pH measured at		1	19.5			C	0.1	0.1	10/15/20 0:00	eep
Residue, Filterable (TDS) @180C	SM2540C	1	88		*	mg/L	20	40	10/14/20 19:41	scd
Sulfate	D516-02/-07/-11 - Turbidimetric	1	6.1			mg/L	1	5	10/19/20 12:12	rbt

CRG Mining, LLC

Project ID: 2020 Q3

Sample ID: RM 2

ACZ Sample ID: **L62119-05**

Date Sampled: 10/12/20 10:50

Date Received: 10/13/20

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						10/14/20 14:50	syw
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								10/15/20 16:33	kja

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	<0.05	U		mg/L	0.05	0.25	10/20/20 16:39	kja
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	10/22/20 15:48	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00795			mg/L	0.0002	0.001	10/22/20 15:48	bsu
Barium, dissolved	M200.7 ICP	1	<0.007	U		mg/L	0.007	0.035	10/20/20 16:39	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	10/20/20 16:10	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	0.000458			mg/L	0.00005	0.00025	10/20/20 16:10	mfm
Calcium, dissolved	M200.7 ICP	1	14.2			mg/L	0.1	0.5	10/20/20 16:39	kja
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	10/22/20 15:48	bsu
Cobalt, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/21/20 11:18	kja
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/20/20 16:39	kja
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	10/20/20 16:39	kja
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	10/20/20 16:10	mfm
Magnesium, dissolved	M200.7 ICP	1	3.16			mg/L	0.2	1	10/20/20 16:39	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/20/20 16:39	kja
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	10/21/20 11:52	llr
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	10/20/20 16:39	kja
Potassium, dissolved	M200.7 ICP	1	1.10			mg/L	0.2	1	10/20/20 16:39	kja
Sodium, dissolved	M200.7 ICP	1	4.06			mg/L	0.2	1	10/20/20 16:39	kja
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	10/21/20 20:21	kja
Zinc, dissolved	M200.7 ICP	1	0.055			mg/L	0.02	0.05	10/20/20 16:39	kja

CRG Mining, LLC

Project ID: 2020 Q3

Sample ID: RM 2

ACZ Sample ID: **L62119-05**

Date Sampled: 10/12/20 10:50

Date Received: 10/13/20

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	57.4			mg/L	2	20	10/15/20 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	10/15/20 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	10/15/20 0:00	eep
Total Alkalinity		1	57.4			mg/L	2	20	10/15/20 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-11.1			%			10/23/20 0:00	calc
Sum of Anions			1.5			meq/L			10/23/20 0:00	calc
Sum of Cations			1.2			meq/L			10/23/20 0:00	calc
Chloride	SM4500Cl-E	1	0.61	B	*	mg/L	0.5	2	10/17/20 13:27	ttg
Conductivity @25C	SM2510B	1	123			umhos/cm	1	10	10/15/20 6:07	eep
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	10/14/20 17:13	syw
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		49			mg/L	0.2	5	10/23/20 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							10/14/20 15:29	scd
Nitrate as N, dissolved	Calculation: NO ₃ NO ₂ minus NO ₂		0.04	B		mg/L	0.02	0.1	10/23/20 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.037	B	*	mg/L	0.02	0.1	10/13/20 22:17	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	U	*	mg/L	0.01	0.05	10/13/20 22:17	pjb
pH (lab)	SM4500H+ B									
pH		1	7.9	H		units	0.1	0.1	10/15/20 0:00	eep
pH measured at		1	19.5			C	0.1	0.1	10/15/20 0:00	eep
Residue, Filterable (TDS) @180C	SM2540C	1	84		*	mg/L	20	40	10/14/20 19:43	scd
Sulfate	D516-02/-07/-11 - Turbidimetric	1	17.8			mg/L	1	5	10/19/20 12:12	rbt

CRG Mining, LLC

Project ID: 2020 Q3

Sample ID: RM 3

ACZ Sample ID: **L62119-06**

Date Sampled: 10/12/20 10:48

Date Received: 10/13/20

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						10/14/20 15:01	syw
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								10/15/20 16:33	kja

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	<0.05	U		mg/L	0.05	0.25	10/20/20 16:48	kja
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	10/22/20 15:50	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00148			mg/L	0.0002	0.001	10/22/20 15:50	bsu
Barium, dissolved	M200.7 ICP	1	0.0133	B		mg/L	0.007	0.035	10/20/20 16:48	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	10/20/20 16:12	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	0.000163	B		mg/L	0.00005	0.00025	10/20/20 16:12	mfm
Calcium, dissolved	M200.7 ICP	1	18.9			mg/L	0.1	0.5	10/20/20 16:48	kja
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	10/22/20 15:50	bsu
Cobalt, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/21/20 11:27	kja
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/20/20 16:48	kja
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	10/20/20 16:48	kja
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	10/20/20 16:12	mfm
Magnesium, dissolved	M200.7 ICP	1	6.22			mg/L	0.2	1	10/20/20 16:48	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/20/20 16:48	kja
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	10/21/20 11:53	llr
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	10/20/20 16:48	kja
Potassium, dissolved	M200.7 ICP	1	0.87	B		mg/L	0.2	1	10/20/20 16:48	kja
Sodium, dissolved	M200.7 ICP	1	2.55			mg/L	0.2	1	10/20/20 16:48	kja
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	10/21/20 20:24	kja
Zinc, dissolved	M200.7 ICP	1	0.028	B		mg/L	0.02	0.05	10/20/20 16:48	kja

CRG Mining, LLC

Project ID: 2020 Q3

Sample ID: RM 3

ACZ Sample ID: **L62119-06**

Date Sampled: 10/12/20 10:48

Date Received: 10/13/20

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	68.6			mg/L	2	20	10/15/20 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	10/15/20 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	10/15/20 0:00	eep
Total Alkalinity		1	68.6			mg/L	2	20	10/15/20 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			0.0			%			10/23/20 0:00	calc
Sum of Anions			1.6			meq/L			10/23/20 0:00	calc
Sum of Cations			1.6			meq/L			10/23/20 0:00	calc
Chloride	SM4500Cl-E	1	0.66	B	*	mg/L	0.5	2	10/17/20 13:27	ttg
Conductivity @25C	SM2510B	1	140			umhos/cm	1	10	10/15/20 6:17	eep
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	10/14/20 17:14	syw
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		73			mg/L	0.2	5	10/23/20 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							10/14/20 15:39	scd
Nitrate as N, dissolved	Calculation: NO ₃ NO ₂ minus NO ₂		0.07	B		mg/L	0.02	0.1	10/23/20 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.066	B	*	mg/L	0.02	0.1	10/13/20 22:18	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	U	*	mg/L	0.01	0.05	10/13/20 22:18	pjb
pH (lab)	SM4500H+ B									
pH		1	8.1	H		units	0.1	0.1	10/15/20 0:00	eep
pH measured at		1	19.6			C	0.1	0.1	10/15/20 0:00	eep
Residue, Filterable (TDS) @180C	SM2540C	1	86			mg/L	20	40	10/14/20 19:49	scd
Sulfate	D516-02/-07/-11 - Turbidimetric	1	7.7			mg/L	1	5	10/19/20 12:12	rbt

CRG Mining, LLC

Project ID: 2020 Q3

Sample ID: CM 1

ACZ Sample ID: **L62119-07**

Date Sampled: 10/12/20 11:27

Date Received: 10/13/20

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						10/14/20 15:13	syw
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								10/15/20 16:33	kja

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	<0.05	U		mg/L	0.05	0.25	10/20/20 16:52	kja
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	10/22/20 15:52	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00143			mg/L	0.0002	0.001	10/22/20 15:52	bsu
Barium, dissolved	M200.7 ICP	1	0.0131	B		mg/L	0.007	0.035	10/20/20 16:52	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	10/20/20 16:14	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	0.000149	B		mg/L	0.00005	0.00025	10/20/20 16:14	mfm
Calcium, dissolved	M200.7 ICP	1	18.4			mg/L	0.1	0.5	10/20/20 16:52	kja
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	10/22/20 15:52	bsu
Cobalt, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/21/20 11:30	kja
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/20/20 16:52	kja
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	10/20/20 16:52	kja
Lead, dissolved	M200.8 ICP-MS	1	0.00010	B		mg/L	0.0001	0.0005	10/20/20 16:14	mfm
Magnesium, dissolved	M200.7 ICP	1	6.05			mg/L	0.2	1	10/20/20 16:52	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/20/20 16:52	kja
Mercury, total	M245.1 CVAA	1	<0.0002	U	*	mg/L	0.0002	0.001	10/21/20 11:54	llr
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	10/20/20 16:52	kja
Potassium, dissolved	M200.7 ICP	1	0.80	B		mg/L	0.2	1	10/20/20 16:52	kja
Sodium, dissolved	M200.7 ICP	1	2.42			mg/L	0.2	1	10/20/20 16:52	kja
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	10/21/20 20:28	kja
Zinc, dissolved	M200.7 ICP	1	0.022	B		mg/L	0.02	0.05	10/20/20 16:52	kja

CRG Mining, LLC

Project ID: 2020 Q3

Sample ID: CM 1

ACZ Sample ID: **L62119-07**

Date Sampled: 10/12/20 11:27

Date Received: 10/13/20

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	69.1			mg/L	2	20	10/15/20 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	10/15/20 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	10/15/20 0:00	eep
Total Alkalinity		1	69.1			mg/L	2	20	10/15/20 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-3.2			%			10/23/20 0:00	calc
Sum of Anions			1.6			meq/L			10/23/20 0:00	calc
Sum of Cations			1.5			meq/L			10/23/20 0:00	calc
Chloride	SM4500Cl-E	1	0.75	B		mg/L	0.5	2	10/17/20 13:27	ttg
Conductivity @25C	SM2510B	1	140			umhos/cm	1	10	10/15/20 6:28	eep
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	10/14/20 17:15	syw
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		71			mg/L	0.2	5	10/23/20 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							10/14/20 15:49	scd
Nitrate as N, dissolved	Calculation: NO ₃ NO ₂ minus NO ₂		0.06	B		mg/L	0.02	0.1	10/23/20 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.055	B	*	mg/L	0.02	0.1	10/13/20 22:19	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	U	*	mg/L	0.01	0.05	10/13/20 22:19	pjb
pH (lab)	SM4500H+ B									
pH		1	8.1	H		units	0.1	0.1	10/15/20 0:00	eep
pH measured at		1	19.5			C	0.1	0.1	10/15/20 0:00	eep
Residue, Filterable (TDS) @180C	SM2540C	1	86			mg/L	20	40	10/14/20 19:51	scd
Sulfate	D516-02/-07/-11 - Turbidimetric	1	7.5			mg/L	1	5	10/19/20 12:54	rbt

CRG Mining, LLC

Project ID: 2020 Q3

Sample ID: CM 2

ACZ Sample ID: **L62119-08**

Date Sampled: 10/12/20 11:20

Date Received: 10/13/20

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						10/14/20 15:25	syw
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								10/15/20 16:33	kja

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	<0.05	U		mg/L	0.05	0.25	10/20/20 17:01	kja
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	10/22/20 15:57	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00216			mg/L	0.0002	0.001	10/22/20 15:57	bsu
Barium, dissolved	M200.7 ICP	1	0.0113	B		mg/L	0.007	0.035	10/20/20 17:01	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	10/20/20 16:15	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	0.000076	B		mg/L	0.00005	0.00025	10/20/20 16:15	mfm
Calcium, dissolved	M200.7 ICP	1	18.4			mg/L	0.1	0.5	10/20/20 17:01	kja
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	10/22/20 15:57	bsu
Cobalt, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/21/20 11:39	kja
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/20/20 17:01	kja
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	10/20/20 17:01	kja
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	10/20/20 16:15	mfm
Magnesium, dissolved	M200.7 ICP	1	3.50			mg/L	0.2	1	10/20/20 17:01	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/20/20 17:01	kja
Mercury, total	M245.1 CVAA	1	<0.0002	U	*	mg/L	0.0002	0.001	10/21/20 11:54	llr
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	10/20/20 17:01	kja
Potassium, dissolved	M200.7 ICP	1	0.64	B		mg/L	0.2	1	10/20/20 17:01	kja
Sodium, dissolved	M200.7 ICP	1	6.32			mg/L	0.2	1	10/20/20 17:01	kja
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	10/21/20 20:37	kja
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	10/20/20 17:01	kja

CRG Mining, LLC

Project ID: 2020 Q3

Sample ID: CM 2

ACZ Sample ID: **L62119-08**

Date Sampled: 10/12/20 11:20

Date Received: 10/13/20

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	55.6			mg/L	2	20	10/15/20 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	10/15/20 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	10/15/20 0:00	eep
Total Alkalinity		1	55.6			mg/L	2	20	10/15/20 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			3.4			%			10/23/20 0:00	calc
Sum of Anions			1.4			meq/L			10/23/20 0:00	calc
Sum of Cations			1.5			meq/L			10/23/20 0:00	calc
Chloride	SM4500Cl-E	1	0.57	B		mg/L	0.5	2	10/17/20 13:27	ttg
Conductivity @25C	SM2510B	1	141			umhos/cm	1	10	10/15/20 6:38	eep
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	10/14/20 17:15	syw
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		60			mg/L	0.2	5	10/23/20 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							10/14/20 15:59	scd
Nitrate as N, dissolved	Calculation: NO ₃ NO ₂ minus NO ₂		0.04	B		mg/L	0.02	0.1	10/23/20 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.035	B	*	mg/L	0.02	0.1	10/13/20 22:21	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	U	*	mg/L	0.01	0.05	10/13/20 22:21	pjb
pH (lab)	SM4500H+ B									
pH		1	8.1	H		units	0.1	0.1	10/15/20 0:00	eep
pH measured at		1	19.8			C	0.1	0.1	10/15/20 0:00	eep
Residue, Filterable (TDS) @180C	SM2540C	1	96		*	mg/L	20	40	10/16/20 15:40	scd
Sulfate	D516-02/-07/-11 - Turbidimetric	1	14.0			mg/L	1	5	10/19/20 12:54	rbt

CRG Mining, LLC

Project ID: 2020 Q3

Sample ID: CM 3

ACZ Sample ID: **L62119-09**

Date Sampled: 10/12/20 11:35

Date Received: 10/13/20

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						10/14/20 15:48	syw
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								10/15/20 16:33	kja

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	<0.05	U		mg/L	0.05	0.25	10/20/20 17:04	kja
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	10/22/20 15:59	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00156			mg/L	0.0002	0.001	10/22/20 15:59	bsu
Barium, dissolved	M200.7 ICP	1	0.0130	B		mg/L	0.007	0.035	10/20/20 17:04	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	10/20/20 16:17	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	0.000136	B		mg/L	0.00005	0.00025	10/20/20 16:17	mfm
Calcium, dissolved	M200.7 ICP	1	18.2			mg/L	0.1	0.5	10/20/20 17:04	kja
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	10/22/20 15:59	bsu
Cobalt, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/21/20 11:42	kja
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/20/20 17:04	kja
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	10/20/20 17:04	kja
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	10/20/20 16:17	mfm
Magnesium, dissolved	M200.7 ICP	1	5.70			mg/L	0.2	1	10/20/20 17:04	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/20/20 17:04	kja
Mercury, total	M245.1 CVAA	1	<0.0002	U	*	mg/L	0.0002	0.001	10/21/20 13:19	llr
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	10/20/20 17:04	kja
Potassium, dissolved	M200.7 ICP	1	0.75	B		mg/L	0.2	1	10/20/20 17:04	kja
Sodium, dissolved	M200.7 ICP	1	2.78			mg/L	0.2	1	10/20/20 17:04	kja
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	10/21/20 20:41	kja
Zinc, dissolved	M200.7 ICP	1	0.020	B		mg/L	0.02	0.05	10/20/20 17:04	kja

CRG Mining, LLC

Project ID: 2020 Q3

Sample ID: CM 3

ACZ Sample ID: **L62119-09**

Date Sampled: 10/12/20 11:35

Date Received: 10/13/20

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	67.7			mg/L	2	20	10/15/20 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	10/15/20 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	10/15/20 0:00	eep
Total Alkalinity		1	67.7			mg/L	2	20	10/15/20 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-3.2			%			10/23/20 0:00	calc
Sum of Anions			1.6			meq/L			10/23/20 0:00	calc
Sum of Cations			1.5			meq/L			10/23/20 0:00	calc
Chloride	SM4500Cl-E	1	0.55	B		mg/L	0.5	2	10/17/20 13:27	ttg
Conductivity @25C	SM2510B	1	140			umhos/cm	1	10	10/15/20 6:48	eep
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	10/14/20 17:19	syw
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		69			mg/L	0.2	5	10/23/20 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							10/14/20 16:09	scd
Nitrate as N, dissolved	Calculation: NO ₃ NO ₂ minus NO ₂		0.05	B		mg/L	0.02	0.1	10/23/20 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.045	B	*	mg/L	0.02	0.1	10/13/20 22:22	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	U	*	mg/L	0.01	0.05	10/13/20 22:22	pjb
pH (lab)	SM4500H+ B									
pH		1	8.1	H		units	0.1	0.1	10/15/20 0:00	eep
pH measured at		1	19.7			C	0.1	0.1	10/15/20 0:00	eep
Residue, Filterable (TDS) @180C	SM2540C	1	88		*	mg/L	20	40	10/16/20 15:43	scd
Sulfate	D516-02/-07/-11 - Turbidimetric	1	8.3			mg/L	1	5	10/19/20 12:55	rbt



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>

CRG Mining, LLC

ACZ Project ID: **L62119**

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
WG507320													
WG507320PBW1	PBW	10/14/20 19:52				17.2	mg/L		-20	20			
WG507320LCSW3	LCSW	10/14/20 20:11	WC201010-1	820.0001		835.7	mg/L	102	90	110			
WG507320LCSW6	LCSW	10/14/20 23:17	WC201010-1	820.0001		852.3	mg/L	104	90	110			
WG507320PBW2	PBW	10/14/20 23:28				2.9	mg/L		-20	20			
WG507320LCSW9	LCSW	10/15/20 3:01	WC201010-1	820.0001		856	mg/L	104	90	110			
WG507320PBW3	PBW	10/15/20 3:12				2.9	mg/L		-20	20			
L62042-05DUP	DUP	10/15/20 4:28			228	228.3	mg/L				0	20	
L62119-01DUP	DUP	10/15/20 4:58			63.6	63.9	mg/L				0	20	
WG507320LCSW12	LCSW	10/15/20 5:18	WC201010-1	820.0001		861.2	mg/L	105	90	110			
WG507320PBW4	PBW	10/15/20 5:27				3	mg/L		-20	20			
WG507320LCSW15	LCSW	10/15/20 9:34	WC201010-1	820.0001		866.2	mg/L	106	90	110			

Aluminum, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG507692													
WG507692ICV	ICV	10/20/20 16:06	II201012-1	2		1.942	mg/L	97	95	105			
WG507692ICB	ICB	10/20/20 16:12				U	mg/L		-0.15	0.15			
WG507692LFB	LFB	10/20/20 16:24	II201015-4	1.0012		.858	mg/L	86	85	115			
L62119-05AS	AS	10/20/20 16:42	II201015-4	1.0012	U	.896	mg/L	89	85	115			
L62119-05ASD	ASD	10/20/20 16:45	II201015-4	1.0012	U	.974	mg/L	97	85	115	8	20	

Antimony, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG507725													
WG507725ICV	ICV	10/20/20 15:24	MS201001-3	.02004		.02026	mg/L	101	90	110			
WG507725ICB	ICB	10/20/20 15:25				U	mg/L		-0.00088	0.00088			
WG507725LFB	LFB	10/20/20 15:27	MS200926-3	.01		.00854	mg/L	85	85	115			
L62119-04AS	AS	10/20/20 16:03	MS200926-3	.01	U	.00768	mg/L	77	70	130			
L62119-04ASD	ASD	10/20/20 16:05	MS200926-3	.01	U	.00789	mg/L	79	70	130	3	20	
WG507946													
WG507946ICV	ICV	10/22/20 15:28	MS201021-2	.02004		.01966	mg/L	98	90	110			
WG507946ICB	ICB	10/22/20 15:30				U	mg/L		-0.00088	0.00088			
WG507946LFB	LFB	10/22/20 15:32	MS201020-4	.01		.00957	mg/L	96	85	115			
L62119-07AS	AS	10/22/20 15:54	MS201020-4	.01	U	.00894	mg/L	89	70	130			
L62119-07ASD	ASD	10/22/20 15:55	MS201020-4	.01	U	.00899	mg/L	90	70	130	1	20	

CRG Mining, LLC

ACZ Project ID: **L62119**

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
WG507725													
WG507725ICV	ICV	10/20/20 15:24	MS201001-3	.05		.04842	mg/L	97	90	110			
WG507725ICB	ICB	10/20/20 15:25				U	mg/L		-0.00044	0.00044			
WG507725LFB	LFB	10/20/20 15:27	MS200926-3	.05005		.0445	mg/L	89	85	115			
L62119-04AS	AS	10/20/20 16:03	MS200926-3	.05005	U	.04839	mg/L	97	70	130			
L62119-04ASD	ASD	10/20/20 16:05	MS200926-3	.05005	U	.04026	mg/L	80	70	130	18	20	
WG507946													
WG507946ICV	ICV	10/22/20 15:28	MS201021-2	.05		.04924	mg/L	98	90	110			
WG507946ICB	ICB	10/22/20 15:30				U	mg/L		-0.00044	0.00044			
WG507946LFB	LFB	10/22/20 15:32	MS201020-4	.05005		.04765	mg/L	95	85	115			
L62119-07AS	AS	10/22/20 15:54	MS201020-4	.05005	.00143	.05016	mg/L	97	70	130			
L62119-07ASD	ASD	10/22/20 15:55	MS201020-4	.05005	.00143	.05066	mg/L	98	70	130	1	20	

Barium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG507692													
WG507692ICV	ICV	10/20/20 16:06	II201012-1	2		1.9945	mg/L	100	95	105			
WG507692ICB	ICB	10/20/20 16:12				U	mg/L		-0.021	0.021			
WG507692LFB	LFB	10/20/20 16:24	II201015-4	.5005		.4586	mg/L	92	85	115			
L62119-05AS	AS	10/20/20 16:42	II201015-4	.5005	U	.4773	mg/L	95	85	115			
L62119-05ASD	ASD	10/20/20 16:45	II201015-4	.5005	U	.5244	mg/L	105	85	115	9	20	

Beryllium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG507725													
WG507725ICV	ICV	10/20/20 15:24	MS201001-3	.05		.048632	mg/L	97	90	110			
WG507725ICB	ICB	10/20/20 15:25				U	mg/L		-0.000176	0.000176			
WG507725LFB	LFB	10/20/20 15:27	MS200926-3	.05005		.044339	mg/L	89	85	115			
L62119-04AS	AS	10/20/20 16:03	MS200926-3	.05005	U	.049449	mg/L	99	70	130			
L62119-04ASD	ASD	10/20/20 16:05	MS200926-3	.05005	U	.042222	mg/L	84	70	130	16	20	

Cadmium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG507725													
WG507725ICV	ICV	10/20/20 15:24	MS201001-3	.05		.047373	mg/L	95	90	110			
WG507725ICB	ICB	10/20/20 15:25				U	mg/L		-0.00011	0.00011			
WG507725LFB	LFB	10/20/20 15:27	MS200926-3	.05005		.044819	mg/L	90	85	115			
L62119-04AS	AS	10/20/20 16:03	MS200926-3	.05005	.000158	.047145	mg/L	94	70	130			
L62119-04ASD	ASD	10/20/20 16:05	MS200926-3	.05005	.000158	.039936	mg/L	79	70	130	17	20	

Calcium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG507692													
WG507692ICV	ICV	10/20/20 16:06	II201012-1	100		97.2	mg/L	97	95	105			
WG507692ICB	ICB	10/20/20 16:12				U	mg/L		-0.3	0.3			
WG507692LFB	LFB	10/20/20 16:24	II201015-4	67.99353		58.32	mg/L	86	85	115			
L62119-05AS	AS	10/20/20 16:42	II201015-4	67.99353	14.2	73.36	mg/L	87	85	115			
L62119-05ASD	ASD	10/20/20 16:45	II201015-4	67.99353	14.2	81.08	mg/L	98	85	115	10	20	

CRG Mining, LLC

ACZ Project ID: **L62119**

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

SM4500CI-E

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG507531													
WG507531ICB	ICB	10/17/20 10:41				U	mg/L		-1.5	1.5			
WG507531ICV	ICV	10/17/20 10:41	WI200506-2	55.055		57.18	mg/L	104	90	110			
WG507531LFB1	LFB	10/17/20 13:23	WI200327-3	30.03		30.65	mg/L	102	90	110			
L62082-04AS	AS	10/17/20 13:25	WI200327-3	30.03	49.3	75.83	mg/L	88	90	110			M2
L62082-05DUP	DUP	10/17/20 13:25			47.6	47.77	mg/L				0	20	
WG507531LFB2	LFB	10/17/20 13:27	WI200327-3	30.03		30.58	mg/L	102	90	110			
L62142-22AS	AS	10/17/20 13:32	WI200327-3	30.03	16.8	47.07	mg/L	101	90	110			
L62142-23DUP	DUP	10/17/20 13:32			19.2	19.03	mg/L				1	20	

Chromium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG507725													
WG507725ICV	ICV	10/20/20 15:24	MS201001-3	.05		.05084	mg/L	102	90	110			
WG507725ICB	ICB	10/20/20 15:25				U	mg/L		-0.0011	0.0011			
WG507725LFB	LFB	10/20/20 15:27	MS200926-3	.05		.04464	mg/L	89	85	115			
L62119-04AS	AS	10/20/20 16:03	MS200926-3	.05	U	.04475	mg/L	90	70	130			
L62119-04ASD	ASD	10/20/20 16:05	MS200926-3	.05	U	.03696	mg/L	74	70	130	19	20	

WG507946

WG507946ICV	ICV	10/22/20 15:28	MS201021-2	.05		.05047	mg/L	101	90	110			
WG507946ICB	ICB	10/22/20 15:30				U	mg/L		-0.0011	0.0011			
WG507946LFB	LFB	10/22/20 15:32	MS201020-4	.05		.04817	mg/L	96	85	115			
L62119-07AS	AS	10/22/20 15:54	MS201020-4	.05	U	.04831	mg/L	97	70	130			
L62119-07ASD	ASD	10/22/20 15:55	MS201020-4	.05	U	.04866	mg/L	97	70	130	1	20	

Cobalt, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG507796													
WG507796ICV	ICV	10/21/20 10:44	II201012-1	2.004		1.933	mg/L	96	95	105			
WG507796ICB	ICB	10/21/20 10:50				U	mg/L		-0.03	0.03			
WG507796LFB	LFB	10/21/20 11:03	II201015-4	.5		.458	mg/L	92	85	115			
L62119-05AS	AS	10/21/20 11:21	II201015-4	.5	U	.481	mg/L	96	85	115			
L62119-05ASD	ASD	10/21/20 11:24	II201015-4	.5	U	.477	mg/L	95	85	115	1	20	

Conductivity @25C

SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG507320													
WG507320LCSW2	LCSW	10/14/20 19:59	PCN61793	1409		1405.9	umhos/cm	100	90	110			
WG507320LCSW5	LCSW	10/14/20 23:04	PCN61793	1409		1420.1	umhos/cm	101	90	110			
WG507320LCSW8	LCSW	10/15/20 2:48	PCN61793	1409		1414	umhos/cm	100	90	110			
L62042-05DUP	DUP	10/15/20 4:28			410	409	umhos/cm				0	20	
L62119-01DUP	DUP	10/15/20 4:58			119	119.6	umhos/cm				1	20	
WG507320LCSW11	LCSW	10/15/20 5:05	PCN61793	1409		1422.1	umhos/cm	101	90	110			
WG507320LCSW14	LCSW	10/15/20 9:21	PCN61793	1409		1439.2	umhos/cm	102	90	110			

CRG Mining, LLC

ACZ Project ID: **L62119**

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

Copper, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG507692													
WG507692ICV	ICV	10/20/20 16:06	II201012-1	2		1.948	mg/L	97	95	105			
WG507692ICB	ICB	10/20/20 16:12				U	mg/L		-0.03	0.03			
WG507692LFB	LFB	10/20/20 16:24	II201015-4	.501		.461	mg/L	92	85	115			
L62119-05AS	AS	10/20/20 16:42	II201015-4	.501	U	.481	mg/L	96	85	115			
L62119-05ASD	ASD	10/20/20 16:45	II201015-4	.501	U	.529	mg/L	106	85	115	10	20	

Cyanide, total

M335.4 - Colorimetric w/ distillation

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG507313													
WG507313ICV	ICV	10/14/20 17:06	WI201007-10	.3		.2949	mg/L	98	90	110			
WG507313ICB	ICB	10/14/20 17:07				U	mg/L		-0.003	0.003			
WG507287LRB	LRB	10/14/20 17:07				U	mg/L		-0.003	0.003			
WG507287LFB	LFB	10/14/20 17:08	WI201007-8	.2		.19	mg/L	95	90	110			
L62119-08DUP	DUP	10/14/20 17:18			U	U	mg/L				0	20	RA
L62119-09LFM	LFM	10/14/20 17:20	WI201007-8	.2	U	.2074	mg/L	104	90	110			

Iron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG507692													
WG507692ICV	ICV	10/20/20 16:06	II201012-1	2		1.927	mg/L	96	95	105			
WG507692ICB	ICB	10/20/20 16:12				U	mg/L		-0.18	0.18			
WG507692LFB	LFB	10/20/20 16:24	II201015-4	1.0018		.925	mg/L	92	85	115			
L62119-05AS	AS	10/20/20 16:42	II201015-4	1.0018	U	.956	mg/L	95	85	115			
L62119-05ASD	ASD	10/20/20 16:45	II201015-4	1.0018	U	1.052	mg/L	105	85	115	10	20	

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG507725													
WG507725ICV	ICV	10/20/20 15:24	MS201001-3	.05		.0501	mg/L	100	90	110			
WG507725ICB	ICB	10/20/20 15:25				U	mg/L		-0.00022	0.00022			
WG507725LFB	LFB	10/20/20 15:27	MS200926-3	.05005		.04447	mg/L	89	85	115			
L62119-04AS	AS	10/20/20 16:03	MS200926-3	.05005	U	.04572	mg/L	91	70	130			
L62119-04ASD	ASD	10/20/20 16:05	MS200926-3	.05005	U	.03847	mg/L	77	70	130	17	20	

Magnesium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG507692													
WG507692ICV	ICV	10/20/20 16:06	II201012-1	100		98.09	mg/L	98	95	105			
WG507692ICB	ICB	10/20/20 16:12				U	mg/L		-0.6	0.6			
WG507692LFB	LFB	10/20/20 16:24	II201015-4	49.99922		42.46	mg/L	85	85	115			
L62119-05AS	AS	10/20/20 16:42	II201015-4	49.99922	3.16	46.8	mg/L	87	85	115			
L62119-05ASD	ASD	10/20/20 16:45	II201015-4	49.99922	3.16	51.73	mg/L	97	85	115	10	20	

CRG Mining, LLC

ACZ Project ID: **L62119**

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

Manganese, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG507692													
WG507692ICV	ICV	10/20/20 16:06	II201012-1	2		1.944	mg/L	97	95	105			
WG507692ICB	ICB	10/20/20 16:12				U	mg/L		-0.03	0.03			
WG507692LFB	LFB	10/20/20 16:24	II201015-4	.5005		.461	mg/L	92	85	115			
L62119-05AS	AS	10/20/20 16:42	II201015-4	.5005	U	.478	mg/L	96	85	115			
L62119-05ASD	ASD	10/20/20 16:45	II201015-4	.5005	U	.525	mg/L	105	85	115	9	20	

Mercury, total

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG507662													
WG507662ICV	ICV	10/21/20 11:35	HG200810-2	.005		.00488	mg/L	98	95	105			
WG507662ICB	ICB	10/21/20 11:36				U	mg/L		-0.0002	0.0002			
WG507662LRB	LRB	10/21/20 11:38				U	mg/L		-0.00044	0.00044			
WG507662LFB	LFB	10/21/20 11:39	HG201009-6	.002002		.00185	mg/L	92	85	115			
L62119-01LFM	LFM	10/21/20 11:45	HG201009-6	.002002	U	.00172	mg/L	86	85	115			
L62119-01LFMD	LFMD	10/21/20 11:46	HG201009-6	.002002	U	.00177	mg/L	88	85	115	3	20	
L62186-03LFM	LFM	10/21/20 12:02	HG201009-6	.002002	U	.00173	mg/L	86	85	115			
L62186-03LFMD	LFMD	10/21/20 12:03	HG201009-6	.002002	U	.00166	mg/L	83	85	115	4	20	MA
WG507663													
WG507663LRB	LRB	10/21/20 13:18				U	mg/L		-0.00044	0.00044			
WG507663LFB	LFB	10/21/20 13:18	HG201009-6	.002002		.00176	mg/L	88	85	115			
L62129-05LFM	LFM	10/21/20 13:25	HG5XPREP	.01001	U	.00298	mg/L	30	85	115			M2
L62129-05LFMD	LFMD	10/21/20 13:28	HG5XPREP	.01001	U	.00307	mg/L	31	85	115	3	20	M2

Nickel, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG507692													
WG507692ICV	ICV	10/20/20 16:06	II201012-1	2		1.966	mg/L	98	95	105			
WG507692ICB	ICB	10/20/20 16:12				U	mg/L		-0.024	0.024			
WG507692LFB	LFB	10/20/20 16:24	II201015-4	.501		.4538	mg/L	91	85	115			
L62119-05AS	AS	10/20/20 16:42	II201015-4	.501	U	.4759	mg/L	95	85	115			
L62119-05ASD	ASD	10/20/20 16:45	II201015-4	.501	U	.5183	mg/L	103	85	115	9	20	

Nitrate/Nitrite as N, dissolved

M353.2 - Automated Cadmium Reduction

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG507210													
WG507210ICV	ICV	10/13/20 21:39	WI200815-1	2.416		2.411	mg/L	100	90	110			
WG507210ICB	ICB	10/13/20 21:40				U	mg/L		-0.02	0.02			
WG507210LFB	LFB	10/13/20 21:45	WI201001-11	2		2.035	mg/L	102	90	110			
L62093-01AS	AS	10/13/20 21:50	WI201001-11	2	U	2.062	mg/L	103	90	110			
L62093-02DUP	DUP	10/13/20 21:53			U	U	mg/L				0	20	RA
L62119-02AS	AS	10/13/20 22:07	WI201001-11	2	.14	2.131	mg/L	100	90	110			
L62119-03DUP	DUP	10/13/20 22:10			.1	.089	mg/L				12	20	RA

CRG Mining, LLC

ACZ Project ID: **L62119**

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, dissolved

M353.2 - Automated Cadmium Reduction

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG507210													
WG507210ICV	ICV	10/13/20 21:39	WI200815-1	.609		.601	mg/L	99	90	110			
WG507210ICB	ICB	10/13/20 21:40				U	mg/L		-0.01	0.01			
WG507210LFB	LFB	10/13/20 21:45	WI201001-11	1		1.009	mg/L	101	90	110			
L62093-01AS	AS	10/13/20 21:50	WI201001-11	1	U	1.026	mg/L	103	90	110			
L62093-02DUP	DUP	10/13/20 21:53			U	U	mg/L				0	20	RA
L62119-02AS	AS	10/13/20 22:07	WI201001-11	1	U	.988	mg/L	99	90	110			
L62119-03DUP	DUP	10/13/20 22:10			U	U	mg/L				0	20	RA

pH (lab)

SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG507320													
WG507320LCSW1	LCSW	10/14/20 19:57	PCN60577	6		6	units	100	5.9	6.1			
WG507320LCSW4	LCSW	10/14/20 23:02	PCN60577	6		6.1	units	102	5.9	6.1			
WG507320LCSW7	LCSW	10/15/20 2:46	PCN60577	6		6.1	units	102	5.9	6.1			
L62042-05DUP	DUP	10/15/20 4:28			8.2	8.2	units				0	20	
L62119-01DUP	DUP	10/15/20 4:58			8	8.1	units				1	20	
WG507320LCSW10	LCSW	10/15/20 5:03	PCN60577	6		6.1	units	102	5.9	6.1			
WG507320LCSW13	LCSW	10/15/20 9:19	PCN60577	6		6.1	units	102	5.9	6.1			

Potassium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG507692													
WG507692ICV	ICV	10/20/20 16:06	II201012-1	20		19.75	mg/L	99	95	105			
WG507692ICB	ICB	10/20/20 16:12				U	mg/L		-0.6	0.6			
WG507692LFB	LFB	10/20/20 16:24	II201015-4	99.96637		85.5	mg/L	86	85	115			
L62119-05AS	AS	10/20/20 16:42	II201015-4	99.96637	1.1	89.35	mg/L	88	85	115			
L62119-05ASD	ASD	10/20/20 16:45	II201015-4	99.96637	1.1	98.26	mg/L	97	85	115	9	20	

Residue, Filterable (TDS) @180C

SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG507323													
WG507323PBW	PBW	10/14/20 19:15				U	mg/L		-20	20			
WG507323LCSW	LCSW	10/14/20 19:17	PCN62148	1000		998	mg/L	100	80	120			
L62119-05DUP	DUP	10/14/20 19:46			84	82	mg/L				2	10	RA
L62127-08DUP	DUP	10/14/20 20:15			1320	1310	mg/L				1	10	
WG507513													
WG507513PBW	PBW	10/16/20 15:30				U	mg/L		-20	20			
WG507513LCSW	LCSW	10/16/20 15:32	PCN62147	1000		992	mg/L	99	80	120			
L62178-02DUP	DUP	10/16/20 16:04			120	120	mg/L				0	10	RA

CRG Mining, LLC

ACZ Project ID: **L62119**

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

Sodium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG507692													
WG507692ICV	ICV	10/20/20 16:06	II201012-1	100		97.97	mg/L	98	95	105			
WG507692ICB	ICB	10/20/20 16:12				U	mg/L		-0.6	0.6			
WG507692LFB	LFB	10/20/20 16:24	II201015-4	100.0125		84.55	mg/L	85	85	115			
L62119-05AS	AS	10/20/20 16:42	II201015-4	100.0125	4.06	90.85	mg/L	87	85	115			
L62119-05ASD	ASD	10/20/20 16:45	II201015-4	100.0125	4.06	100	mg/L	96	85	115	10	20	

Sulfate

D516-02/-07/-11 - Turbidimetric

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG507571													
WG507571ICB	ICB	10/19/20 9:30				U	mg/L		-3	3			
WG507571ICV	ICV	10/19/20 9:30	WI201012-1	20		18.7	mg/L	94	90	110			
WG507571LFB	LFB	10/19/20 12:11	WI200803-1	10.01		9.8	mg/L	98	90	110			
L62112-02AS	AS	10/19/20 12:11	WI200803-1	10.01	8.9	18.9	mg/L	100	90	110			
L62112-03DUP	DUP	10/19/20 12:11			11	10.7	mg/L				3	20	
L62119-07AS	AS	10/19/20 12:54	WI200803-1	10.01	7.5	18.4	mg/L	109	90	110			
L62119-08DUP	DUP	10/19/20 12:54			14	13.3	mg/L				5	20	

Vanadium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG507843													
WG507843ICV	ICV	10/21/20 19:39	II201012-1	2		1.989	mg/L	99	95	105			
WG507843ICB	ICB	10/21/20 19:45				U	mg/L		-0.015	0.015			
WG507843LFB	LFB	10/21/20 19:58	II201015-4	.4995		.4424	mg/L	89	85	115			
L62119-02AS	AS	10/21/20 20:08	II201015-4	.4995	U	.4808	mg/L	96	85	115			
L62119-02ASD	ASD	10/21/20 20:11	II201015-4	.4995	U	.464	mg/L	93	85	115	4	20	

Zinc, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG507692													
WG507692ICV	ICV	10/20/20 16:06	II201012-1	2		1.906	mg/L	95	95	105			
WG507692ICB	ICB	10/20/20 16:12				U	mg/L		-0.06	0.06			
WG507692LFB	LFB	10/20/20 16:24	II201015-4	.50075		.449	mg/L	90	85	115			
L62119-05AS	AS	10/20/20 16:42	II201015-4	.50075	.055	.511	mg/L	91	85	115			
L62119-05ASD	ASD	10/20/20 16:45	II201015-4	.50075	.055	.546	mg/L	98	85	115	7	20	

CRG Mining, LLC

ACZ Project ID: **L62119**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L62119-01	WG507531	Chloride	SM4500CI-E	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG507313	Cyanide, total	M335.4 - Colorimetric w/ distillation	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).
	WG507210	Nitrate/Nitrite as N, dissolved	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).
			M353.2 - Automated Cadmium Reduction	ZU	Analysis date/time preceeds filter date/time. A portion of sample was filtered and analyzed prior to the creation of a Filter workgroup.
		Nitrite as N, dissolved	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).
			M353.2 - Automated Cadmium Reduction	ZU	Analysis date/time preceeds filter date/time. A portion of sample was filtered and analyzed prior to the creation of a Filter workgroup.
	WG507323	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).
L62119-02	WG507531	Chloride	SM4500CI-E	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG507313	Cyanide, total	M335.4 - Colorimetric w/ distillation	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).
	WG507210	Nitrate/Nitrite as N, dissolved	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).
			M353.2 - Automated Cadmium Reduction	ZU	Analysis date/time preceeds filter date/time. A portion of sample was filtered and analyzed prior to the creation of a Filter workgroup.
		Nitrite as N, dissolved	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).
			M353.2 - Automated Cadmium Reduction	ZU	Analysis date/time preceeds filter date/time. A portion of sample was filtered and analyzed prior to the creation of a Filter workgroup.
	WG507323	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).
L62119-03	WG507531	Chloride	SM4500CI-E	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG507313	Cyanide, total	M335.4 - Colorimetric w/ distillation	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).
	WG507210	Nitrate/Nitrite as N, dissolved	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).
			M353.2 - Automated Cadmium Reduction	ZU	Analysis date/time preceeds filter date/time. A portion of sample was filtered and analyzed prior to the creation of a Filter workgroup.
		Nitrite as N, dissolved	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).
			M353.2 - Automated Cadmium Reduction	ZU	Analysis date/time preceeds filter date/time. A portion of sample was filtered and analyzed prior to the creation of a Filter workgroup.
	WG507323	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).

CRG Mining, LLC

ACZ Project ID: **L62119**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L62119-04	WG507531	Chloride	SM4500CI-E	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG507313	Cyanide, total	M335.4 - Colorimetric w/ distillation	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).
	WG507210	Nitrate/Nitrite as N, dissolved	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).
			M353.2 - Automated Cadmium Reduction	ZU	Analysis date/time precedes filter date/time. A portion of sample was filtered and analyzed prior to the creation of a Filter workgroup.
		Nitrite as N, dissolved	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).
			M353.2 - Automated Cadmium Reduction	ZU	Analysis date/time precedes filter date/time. A portion of sample was filtered and analyzed prior to the creation of a Filter workgroup.
	WG507323	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).
L62119-05	WG507531	Chloride	SM4500CI-E	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG507313	Cyanide, total	M335.4 - Colorimetric w/ distillation	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).
	WG507210	Nitrate/Nitrite as N, dissolved	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).
			M353.2 - Automated Cadmium Reduction	ZU	Analysis date/time precedes filter date/time. A portion of sample was filtered and analyzed prior to the creation of a Filter workgroup.
		Nitrite as N, dissolved	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).
			M353.2 - Automated Cadmium Reduction	ZU	Analysis date/time precedes filter date/time. A portion of sample was filtered and analyzed prior to the creation of a Filter workgroup.
	WG507323	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).
L62119-06	WG507531	Chloride	SM4500CI-E	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG507313	Cyanide, total	M335.4 - Colorimetric w/ distillation	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).
	WG507210	Nitrate/Nitrite as N, dissolved	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).
			M353.2 - Automated Cadmium Reduction	ZU	Analysis date/time precedes filter date/time. A portion of sample was filtered and analyzed prior to the creation of a Filter workgroup.
		Nitrite as N, dissolved	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).
			M353.2 - Automated Cadmium Reduction	ZU	Analysis date/time precedes filter date/time. A portion of sample was filtered and analyzed prior to the creation of a Filter workgroup.

CRG Mining, LLC

ACZ Project ID: **L62119**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L62119-07	WG507313	Cyanide, total	M335.4 - Colorimetric w/ distillation	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).
	WG507662	Mercury, total	M245.1 CVAA	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG507210	Nitrate/Nitrite as N, dissolved	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).
			M353.2 - Automated Cadmium Reduction	ZU	Analysis date/time precedes filter date/time. A portion of sample was filtered and analyzed prior to the creation of a Filter workgroup.
		Nitrite as N, dissolved	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).
			M353.2 - Automated Cadmium Reduction	ZU	Analysis date/time precedes filter date/time. A portion of sample was filtered and analyzed prior to the creation of a Filter workgroup.
L62119-08	WG507313	Cyanide, total	M335.4 - Colorimetric w/ distillation	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).
	WG507662	Mercury, total	M245.1 CVAA	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG507210	Nitrate/Nitrite as N, dissolved	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).
			M353.2 - Automated Cadmium Reduction	ZU	Analysis date/time precedes filter date/time. A portion of sample was filtered and analyzed prior to the creation of a Filter workgroup.
		Nitrite as N, dissolved	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).
			M353.2 - Automated Cadmium Reduction	ZU	Analysis date/time precedes filter date/time. A portion of sample was filtered and analyzed prior to the creation of a Filter workgroup.
	WG507513	Residue, Filterable (TDS) @180C	SM2540C	N1	See Case Narrative.
			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).
L62119-09	WG507313	Cyanide, total	M335.4 - Colorimetric w/ distillation	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).
	WG507663	Mercury, total	M245.1 CVAA	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG507210	Nitrate/Nitrite as N, dissolved	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).
			M353.2 - Automated Cadmium Reduction	ZU	Analysis date/time precedes filter date/time. A portion of sample was filtered and analyzed prior to the creation of a Filter workgroup.
		Nitrite as N, dissolved	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).
			M353.2 - Automated Cadmium Reduction	ZU	Analysis date/time precedes filter date/time. A portion of sample was filtered and analyzed prior to the creation of a Filter workgroup.
	WG507513	Residue, Filterable (TDS) @180C	SM2540C	N1	See Case Narrative.
			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).

CRG Mining, LLC

ACZ Project ID: **L62119**

No certification qualifiers associated with this analysis

CRG Mining, LLC
2020 Q3

ACZ Project ID: L62119
Date Received: 10/13/2020 11:16
Received By:
Date Printed: 10/14/2020

Receipt Verification

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

Samples/Containers

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

NA indicates Not Applicable

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Temp Criteria (°C)	Rad (µR/Hr)	Custody Seal Intact?
-----	-----	-----	-----	-----
5313	3.9	<=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.

CRG Mining, LLC
2020 Q3

ACZ Project ID: L62119
Date Received: 10/13/2020 11:16
Received By:
Date Printed: 10/14/2020

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



Laboratories, Inc. **L62119**

CHAIN of CUSTODY

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

Report to:

Name: JAKE WILKINSON
 Company: CR6 MINING LLC
 E-mail: JWILKINSON@CR6MINING.COM

Address: 510 South Wisconsin St
GUNNISON, CO 81230
 Telephone: 970-417-3311

Copy of Report to:

Name: _____
 Company: _____

E-mail: _____
 Telephone: _____

Invoice to:

Name: JAKE WILKINSON
 Company: SAME
 E-mail: _____

Address: SAME
 Telephone: _____

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: PAUL WOLFE Sampler's Site Information State CO. Zip code 81230 Time Zone Mountain

*Sampler's Signature: PAUL WOLFE

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

PROJECT INFORMATION

ANALYSES REQUESTED (attach list or use quote number)

Quote #:

PO#: 2020 Q3

Reporting state for compliance testing:

Check box if samples include NRC licensed material? ☐

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers
GL 1	10/12/20 - 10:15 AM	SW	5
GL 2	10/12/20 - 10:09 AM	SW	5
GL 3	10/12/20 - 10:27 AM	SW	5
PM 1	10/12/20 - 10:40 AM	SW	5
PM 2	10/12/20 - 10:50 AM	SW	5
PM 3	10/12/20 - 10:40 AM	SW	5
CM 1	10/12/20 - 11:27 AM	SW	5
CM 2	10/12/20 - 11:20 AM	SW	5
CM 3	10/12/20 - 11:35 AM	SW	5

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

REMARKS

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

RELINQUISHED BY:

DATE:TIME

RECEIVED BY:

DATE:TIME

Paul Wolfe

10/12/20 12:30 AM

Devin 10/13/20 11:16