

January 27, 2022

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

cc: Sid Tolbert

Project ID:

ACZ Project ID: L70866

Jake Wilkinson:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on January 12, 2022. This project has been assigned to ACZ's project number, L70866. Please reference this number in all future inquiries.

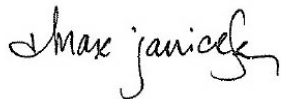
All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L70866. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

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 February 26, 2022. 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

Project ID:

Sample ID: GL1

ACZ Sample ID: **L70866-01**

Date Sampled: 01/11/22 09:25

Date Received: 01/12/22

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								01/14/22 10:00	bls/mjj
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								01/13/22 13:57	mlh

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	01/20/22 15:25	aeH
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	01/21/22 16:04	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.001	01/21/22 16:04	mfm
Barium, dissolved	M200.7 ICP	1	0.0128	B		mg/L	0.007	0.035	01/20/22 15:25	aeH
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	01/21/22 16:04	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	01/21/22 16:04	mfm
Calcium, dissolved	M200.7 ICP	1	14.9			mg/L	0.1	0.5	01/20/22 15:25	aeH
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	01/21/22 16:04	mfm
Cobalt, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	01/20/22 15:25	aeH
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	01/20/22 15:25	aeH
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	01/20/22 15:25	aeH
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	01/25/22 18:45	kja
Magnesium, dissolved	M200.7 ICP	1	4.77			mg/L	0.2	1	01/20/22 15:25	aeH
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	01/20/22 15:25	aeH
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	01/13/22 13:55	mlh
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	01/20/22 15:25	aeH
Potassium, dissolved	M200.7 ICP	1	0.28	B		mg/L	0.2	1	01/20/22 15:25	aeH
Sodium, dissolved	M200.7 ICP	1	1.57			mg/L	0.2	1	01/20/22 15:25	aeH
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	01/20/22 15:25	aeH
Zinc, dissolved	M200.7 ICP	1	0.148			mg/L	0.02	0.05	01/20/22 15:25	aeH

CRG Mining, LLC
Project ID:
Sample ID: GL1

ACZ Sample ID: **L70866-01**
Date Sampled: 01/11/22 09:25
Date Received: 01/12/22
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	63.1			mg/L	2	20	01/14/22 0:00	jck
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	01/14/22 0:00	jck
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	01/14/22 0:00	jck
Total Alkalinity		1	63.1			mg/L	2	20	01/14/22 0:00	jck
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-7.7			%			01/27/22 0:00	calc
Sum of Anions			1.4			meq/L			01/27/22 0:00	calc
Sum of Cations			1.2			meq/L			01/27/22 0:00	calc
Chloride	SM4500Cl-E	1	0.57	B	*	mg/L	0.5	2	01/14/22 14:32	md
Conductivity @25C	SM2510B	1	119			umhos/cm	1	10	01/14/22 21:06	jck
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	01/14/22 17:02	mjj1
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		57			mg/L	0.2	5	01/27/22 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							01/14/22 5:59	mlh
Nitrate as N, dissolved	Calculation: NO ₃ NO ₂ minus NO ₂		0.134			mg/L	0.02	0.1	01/27/22 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.134		*	mg/L	0.02	0.1	01/13/22 0:24	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	U	*	mg/L	0.01	0.05	01/13/22 0:24	pjb
pH (lab)	SM4500H+ B									
pH		1	8.1	H		units	0.1	0.1	01/14/22 0:00	jck
pH measured at		1	21.2			C	0.1	0.1	01/14/22 0:00	jck
Residue, Filterable (TDS) @180C	SM2540C	1	66		*	mg/L	20	40	01/14/22 13:53	emk
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	5.0	B		mg/L	1	5	01/14/22 14:55	wtc

CRG Mining, LLC

Project ID:

Sample ID: GL2

ACZ Sample ID: **L70866-02**

Date Sampled: 01/11/22 09:50

Date Received: 01/12/22

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								01/14/22 10:15	bls/mjj
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								01/13/22 13:57	mlh

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	01/20/22 15:28	aeH
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	01/21/22 16:10	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00323			mg/L	0.0002	0.001	01/21/22 16:10	mfm
Barium, dissolved	M200.7 ICP	1	0.0119	B		mg/L	0.007	0.035	01/20/22 15:28	aeH
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	01/21/22 16:10	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	0.00347			mg/L	0.00005	0.00025	01/21/22 16:10	mfm
Calcium, dissolved	M200.7 ICP	1	26.8			mg/L	0.1	0.5	01/20/22 15:28	aeH
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	01/21/22 16:10	mfm
Cobalt, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	01/20/22 15:28	aeH
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	01/20/22 15:28	aeH
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	01/20/22 15:28	aeH
Lead, dissolved	M200.8 ICP-MS	1	0.00022	B		mg/L	0.0001	0.0005	01/25/22 18:47	kja
Magnesium, dissolved	M200.7 ICP	1	7.90			mg/L	0.2	1	01/20/22 15:28	aeH
Manganese, dissolved	M200.7 ICP	1	0.046	B		mg/L	0.01	0.05	01/20/22 15:28	aeH
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	01/13/22 13:56	mlh
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	01/20/22 15:28	aeH
Potassium, dissolved	M200.7 ICP	1	0.54	B		mg/L	0.2	1	01/20/22 15:28	aeH
Sodium, dissolved	M200.7 ICP	1	3.86			mg/L	0.2	1	01/20/22 15:28	aeH
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	01/20/22 15:28	aeH
Zinc, dissolved	M200.7 ICP	1	0.327			mg/L	0.02	0.05	01/20/22 15:28	aeH

CRG Mining, LLC
Project ID:
Sample ID: GL2

ACZ Sample ID: **L70866-02**
Date Sampled: 01/11/22 09:50
Date Received: 01/12/22
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	84.0			mg/L	2	20	01/14/22 0:00	jck
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	01/14/22 0:00	jck
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	01/14/22 0:00	jck
Total Alkalinity		1	84.0			mg/L	2	20	01/14/22 0:00	jck
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-8.3			%			01/27/22 0:00	calc
Sum of Anions			2.6			meq/L			01/27/22 0:00	calc
Sum of Cations			2.2			meq/L			01/27/22 0:00	calc
Chloride	SM4500Cl-E	1	0.91	B	*	mg/L	0.5	2	01/14/22 14:33	md
Conductivity @25C	SM2510B	1	224			umhos/cm	1	10	01/14/22 21:15	jck
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	01/14/22 17:05	mjj1
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		100			mg/L	0.2	5	01/27/22 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							01/14/22 6:04	mlh
Nitrate as N, dissolved	Calculation: NO ₃ NO ₂ minus NO ₂		0.376			mg/L	0.02	0.1	01/27/22 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.376		*	mg/L	0.02	0.1	01/13/22 0:25	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	U	*	mg/L	0.01	0.05	01/13/22 0:25	pjb
pH (lab)	SM4500H+ B									
pH		1	8.1	H		units	0.1	0.1	01/14/22 0:00	jck
pH measured at		1	21.3			C	0.1	0.1	01/14/22 0:00	jck
Residue, Filterable (TDS) @180C	SM2540C	1	140		*	mg/L	20	40	01/14/22 13:56	emk
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	39.7			mg/L	1	5	01/14/22 14:55	wtc

CRG Mining, LLC

Project ID:

Sample ID: GL3

ACZ Sample ID: **L70866-03**

Date Sampled: 01/11/22 10:10

Date Received: 01/12/22

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								01/14/22 10:29	bls/mjj
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								01/13/22 13:57	mlh

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	01/20/22 15:38	aeH
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	01/21/22 16:16	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00027	B		mg/L	0.0002	0.001	01/21/22 16:16	mfm
Barium, dissolved	M200.7 ICP	1	0.0124	B		mg/L	0.007	0.035	01/20/22 15:38	aeH
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	01/21/22 16:16	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	0.000316			mg/L	0.00005	0.00025	01/21/22 16:16	mfm
Calcium, dissolved	M200.7 ICP	1	17.0			mg/L	0.1	0.5	01/20/22 15:38	aeH
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	01/21/22 16:16	mfm
Cobalt, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	01/20/22 15:38	aeH
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	01/20/22 15:38	aeH
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	01/20/22 15:38	aeH
Lead, dissolved	M200.8 ICP-MS	1	0.00129			mg/L	0.0001	0.0005	01/25/22 18:49	kja
Magnesium, dissolved	M200.7 ICP	1	6.32			mg/L	0.2	1	01/20/22 15:38	aeH
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	01/20/22 15:38	aeH
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	01/13/22 13:57	mlh
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	01/20/22 15:38	aeH
Potassium, dissolved	M200.7 ICP	1	0.54	B		mg/L	0.2	1	01/20/22 15:38	aeH
Sodium, dissolved	M200.7 ICP	1	2.24			mg/L	0.2	1	01/20/22 15:38	aeH
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	01/20/22 15:38	aeH
Zinc, dissolved	M200.7 ICP	1	0.059			mg/L	0.02	0.05	01/20/22 15:38	aeH

CRG Mining, LLC
Project ID:
Sample ID: GL3

ACZ Sample ID: **L70866-03**
Date Sampled: 01/11/22 10:10
Date Received: 01/12/22
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	70.1			mg/L	2	20	01/14/22 0:00	jck
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	01/14/22 0:00	jck
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	01/14/22 0:00	jck
Total Alkalinity		1	70.1			mg/L	2	20	01/14/22 0:00	jck
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-6.3			%			01/27/22 0:00	calc
Sum of Anions			1.7			meq/L			01/27/22 0:00	calc
Sum of Cations			1.5			meq/L			01/27/22 0:00	calc
Chloride	SM4500Cl-E	1	3.46		*	mg/L	0.5	2	01/14/22 14:33	md
Conductivity @25C	SM2510B	1	155			umhos/cm	1	10	01/14/22 21:24	jck
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	01/14/22 17:07	mjj1
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		69			mg/L	0.2	5	01/27/22 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							01/14/22 6:08	mlh
Nitrate as N, dissolved	Calculation: NO ₃ NO ₂ minus NO ₂		0.166			mg/L	0.02	0.1	01/27/22 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.166		*	mg/L	0.02	0.1	01/13/22 0:27	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	U	*	mg/L	0.01	0.05	01/13/22 0:27	pjb
pH (lab)	SM4500H+ B									
pH		1	8.1	H		units	0.1	0.1	01/14/22 0:00	jck
pH measured at		1	21.5			C	0.1	0.1	01/14/22 0:00	jck
Residue, Filterable (TDS) @180C	SM2540C	1	90		*	mg/L	20	40	01/14/22 13:58	emk
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	7.1			mg/L	1	5	01/14/22 14:55	wtc

CRG Mining, LLC

Project ID:

Sample ID: RM1

ACZ Sample ID: **L70866-04**

Date Sampled: 01/11/22 10:20

Date Received: 01/12/22

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								01/14/22 10:37	bls/mjj
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								01/13/22 13:57	mlh

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	01/20/22 15:41	aeH
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	01/21/22 16:17	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00033	B		mg/L	0.0002	0.001	01/21/22 16:17	mfm
Barium, dissolved	M200.7 ICP	1	0.0119	B		mg/L	0.007	0.035	01/20/22 15:41	aeH
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	01/21/22 16:17	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	0.000281			mg/L	0.00005	0.00025	01/21/22 16:17	mfm
Calcium, dissolved	M200.7 ICP	1	17.0			mg/L	0.1	0.5	01/20/22 15:41	aeH
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	01/21/22 16:17	mfm
Cobalt, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	01/20/22 15:41	aeH
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	01/20/22 15:41	aeH
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	01/20/22 15:41	aeH
Lead, dissolved	M200.8 ICP-MS	1	0.00073			mg/L	0.0001	0.0005	01/25/22 18:51	kja
Magnesium, dissolved	M200.7 ICP	1	5.98			mg/L	0.2	1	01/20/22 15:41	aeH
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	01/20/22 15:41	aeH
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	01/13/22 13:58	mlh
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	01/20/22 15:41	aeH
Potassium, dissolved	M200.7 ICP	1	0.47	B		mg/L	0.2	1	01/20/22 15:41	aeH
Sodium, dissolved	M200.7 ICP	1	2.02			mg/L	0.2	1	01/20/22 15:41	aeH
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	01/20/22 15:41	aeH
Zinc, dissolved	M200.7 ICP	1	0.035	B		mg/L	0.02	0.05	01/20/22 15:41	aeH

CRG Mining, LLC

Project ID:

Sample ID: RM1

ACZ Sample ID: **L70866-04**

Date Sampled: 01/11/22 10:20

Date Received: 01/12/22

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	88.1			mg/L	2	20	01/14/22 0:00	jck
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	01/14/22 0:00	jck
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	01/14/22 0:00	jck
Total Alkalinity		1	88.1			mg/L	2	20	01/14/22 0:00	jck
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-17.6			%			01/27/22 0:00	calc
Sum of Anions			2			meq/L			01/27/22 0:00	calc
Sum of Cations			1.4			meq/L			01/27/22 0:00	calc
Chloride	SM4500Cl-E	1	2.13		*	mg/L	0.5	2	01/14/22 14:35	md
Conductivity @25C	SM2510B	1	149			umhos/cm	1	10	01/14/22 21:34	jck
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	01/14/22 17:07	mjj1
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		67			mg/L	0.2	5	01/27/22 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							01/14/22 6:12	mlh
Nitrate as N, dissolved	Calculation: NO ₃ NO ₂ minus NO ₂		0.158			mg/L	0.02	0.1	01/27/22 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.158		*	mg/L	0.02	0.1	01/13/22 0:30	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	U	*	mg/L	0.01	0.05	01/13/22 0:30	pjb
pH (lab)	SM4500H+ B									
pH		1	8.2	H		units	0.1	0.1	01/14/22 0:00	jck
pH measured at		1	21.8			C	0.1	0.1	01/14/22 0:00	jck
Residue, Filterable (TDS) @180C	SM2540C	1	86			mg/L	20	40	01/14/22 14:04	emk
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	6.9			mg/L	1	5	01/14/22 14:55	wtc

CRG Mining, LLC

Project ID:

Sample ID: RM2

ACZ Sample ID: **L70866-05**

Date Sampled: 01/11/22 10:35

Date Received: 01/12/22

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								01/14/22 10:44	bls/mjj
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								01/13/22 13:57	mlh

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	01/20/22 15:44	aeH
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	01/21/22 16:19	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00849			mg/L	0.0002	0.001	01/21/22 16:19	mfm
Barium, dissolved	M200.7 ICP	1	0.0074	B		mg/L	0.007	0.035	01/20/22 15:44	aeH
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	01/21/22 16:19	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	0.000525			mg/L	0.00005	0.00025	01/21/22 16:19	mfm
Calcium, dissolved	M200.7 ICP	1	19.0			mg/L	0.1	0.5	01/20/22 15:44	aeH
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	01/21/22 16:19	mfm
Cobalt, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	01/20/22 15:44	aeH
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	01/20/22 15:44	aeH
Iron, dissolved	M200.7 ICP	1	0.066	B		mg/L	0.06	0.15	01/20/22 15:44	aeH
Lead, dissolved	M200.8 ICP-MS	1	0.00040	B		mg/L	0.0001	0.0005	01/25/22 18:53	kja
Magnesium, dissolved	M200.7 ICP	1	3.26			mg/L	0.2	1	01/20/22 15:44	aeH
Manganese, dissolved	M200.7 ICP	1	0.029	B		mg/L	0.01	0.05	01/20/22 15:44	aeH
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	01/13/22 14:01	mlh
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	01/20/22 15:44	aeH
Potassium, dissolved	M200.7 ICP	1	0.88	B		mg/L	0.2	1	01/20/22 15:44	aeH
Sodium, dissolved	M200.7 ICP	1	3.75			mg/L	0.2	1	01/20/22 15:44	aeH
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	01/20/22 15:44	aeH
Zinc, dissolved	M200.7 ICP	1	0.819			mg/L	0.02	0.05	01/20/22 15:44	aeH

CRG Mining, LLC
Project ID:
Sample ID: RM2

ACZ Sample ID: **L70866-05**
Date Sampled: 01/11/22 10:35
Date Received: 01/12/22
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	52.8			mg/L	2	20	01/14/22 0:00	jck
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	01/14/22 0:00	jck
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	01/14/22 0:00	jck
Total Alkalinity		1	52.8			mg/L	2	20	01/14/22 0:00	jck
Cation-Anion Balance	Calculation									
Cation-Anion Balance			0.0			%			01/27/22 0:00	calc
Sum of Anions			1.4			meq/L			01/27/22 0:00	calc
Sum of Cations			1.4			meq/L			01/27/22 0:00	calc
Chloride	SM4500Cl-E	1	<0.5	U	*	mg/L	0.5	2	01/14/22 14:35	md
Conductivity @25C	SM2510B	1	126			umhos/cm	1	10	01/14/22 21:43	jck
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	01/14/22 17:08	mjj1
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		61			mg/L	0.2	5	01/27/22 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							01/14/22 6:16	mlh
Nitrate as N, dissolved	Calculation: NO ₃ NO ₂ minus NO ₂		<0.02	U		mg/L	0.02	0.1	01/27/22 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.02	U	*	mg/L	0.02	0.1	01/13/22 0:36	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	U	*	mg/L	0.01	0.05	01/13/22 0:36	pjb
pH (lab)	SM4500H+ B									
pH		1	8.1	H		units	0.1	0.1	01/14/22 0:00	jck
pH measured at		1	22.3			C	0.1	0.1	01/14/22 0:00	jck
Residue, Filterable (TDS) @180C	SM2540C	1	82			mg/L	20	40	01/14/22 14:06	emk
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	18.2			mg/L	1	5	01/14/22 14:55	wtc

CRG Mining, LLC

Project ID:

Sample ID: RM3

ACZ Sample ID: **L70866-06**

Date Sampled: 01/11/22 10:45

Date Received: 01/12/22

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								01/14/22 10:59	bls/mjj
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								01/13/22 13:57	mlh

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	01/20/22 15:47	aeH
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	01/21/22 16:21	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00130			mg/L	0.0002	0.001	01/21/22 16:21	mfm
Barium, dissolved	M200.7 ICP	1	0.0106	B		mg/L	0.007	0.035	01/20/22 15:47	aeH
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	01/21/22 16:21	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	0.000211	B		mg/L	0.00005	0.00025	01/21/22 16:21	mfm
Calcium, dissolved	M200.7 ICP	1	16.7			mg/L	0.1	0.5	01/20/22 15:47	aeH
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	01/21/22 16:21	mfm
Cobalt, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	01/20/22 15:47	aeH
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	01/20/22 15:47	aeH
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	01/20/22 15:47	aeH
Lead, dissolved	M200.8 ICP-MS	1	0.00011	B		mg/L	0.0001	0.0005	01/25/22 18:55	kja
Magnesium, dissolved	M200.7 ICP	1	5.26			mg/L	0.2	1	01/20/22 15:47	aeH
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	01/20/22 15:47	aeH
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	01/13/22 14:04	mlh
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	01/20/22 15:47	aeH
Potassium, dissolved	M200.7 ICP	1	0.42	B		mg/L	0.2	1	01/20/22 15:47	aeH
Sodium, dissolved	M200.7 ICP	1	1.79			mg/L	0.2	1	01/20/22 15:47	aeH
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	01/20/22 15:47	aeH
Zinc, dissolved	M200.7 ICP	1	0.023	B		mg/L	0.02	0.05	01/20/22 15:47	aeH

CRG Mining, LLC
Project ID:
Sample ID: RM3

ACZ Sample ID: **L70866-06**
Date Sampled: 01/11/22 10:45
Date Received: 01/12/22
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	68.5			mg/L	2	20	01/14/22 0:00	jck
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	01/14/22 0:00	jck
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	01/14/22 0:00	jck
Total Alkalinity		1	68.5			mg/L	2	20	01/14/22 0:00	jck
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-3.4			%			01/27/22 0:00	calc
Sum of Anions			1.5			meq/L			01/27/22 0:00	calc
Sum of Cations			1.4			meq/L			01/27/22 0:00	calc
Chloride	SM4500Cl-E	1	<0.5	U	*	mg/L	0.5	2	01/14/22 14:36	md
Conductivity @25C	SM2510B	1	139			umhos/cm	1	10	01/14/22 21:52	jck
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	01/14/22 17:10	mjj1
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		63			mg/L	0.2	5	01/27/22 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							01/14/22 6:20	mlh
Nitrate as N, dissolved	Calculation: NO ₃ NO ₂ minus NO ₂		0.140			mg/L	0.02	0.1	01/27/22 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.140		*	mg/L	0.02	0.1	01/13/22 0:37	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	U	*	mg/L	0.01	0.05	01/13/22 0:37	pjb
pH (lab)	SM4500H+ B									
pH		1	8.2	H		units	0.1	0.1	01/14/22 0:00	jck
pH measured at		1	21.4			C	0.1	0.1	01/14/22 0:00	jck
Residue, Filterable (TDS) @180C	SM2540C	1	86			mg/L	20	40	01/14/22 14:09	emk
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	7.7			mg/L	1	5	01/14/22 14:55	wtc

CRG Mining, LLC

Project ID:

Sample ID: CM1

ACZ Sample ID: **L70866-07**

Date Sampled: 01/11/22 11:05

Date Received: 01/12/22

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								01/14/22 11:13	bls/mjj
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								01/13/22 13:57	mlh

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	01/20/22 15:57	aeH
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	01/21/22 16:23	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00146			mg/L	0.0002	0.001	01/21/22 16:23	mfm
Barium, dissolved	M200.7 ICP	1	0.0139	B		mg/L	0.007	0.035	01/20/22 15:57	aeH
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	01/21/22 16:23	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	0.000195	B		mg/L	0.00005	0.00025	01/21/22 16:23	mfm
Calcium, dissolved	M200.7 ICP	1	17.8			mg/L	0.1	0.5	01/20/22 15:57	aeH
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	01/21/22 16:23	mfm
Cobalt, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	01/20/22 15:57	aeH
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	01/20/22 15:57	aeH
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	01/20/22 15:57	aeH
Lead, dissolved	M200.8 ICP-MS	1	0.00025	B		mg/L	0.0001	0.0005	01/25/22 19:06	kja
Magnesium, dissolved	M200.7 ICP	1	5.33			mg/L	0.2	1	01/20/22 15:57	aeH
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	01/20/22 15:57	aeH
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	01/13/22 14:05	mlh
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	01/20/22 15:57	aeH
Potassium, dissolved	M200.7 ICP	1	0.46	B		mg/L	0.2	1	01/20/22 15:57	aeH
Sodium, dissolved	M200.7 ICP	1	1.74			mg/L	0.2	1	01/20/22 15:57	aeH
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	01/20/22 15:57	aeH
Zinc, dissolved	M200.7 ICP	1	0.184			mg/L	0.02	0.05	01/20/22 15:57	aeH

CRG Mining, LLC

Project ID:

Sample ID: CM1

ACZ Sample ID: **L70866-07**

Date Sampled: 01/11/22 11:05

Date Received: 01/12/22

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	68.0			mg/L	2	20	01/14/22 0:00	jck
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	01/14/22 0:00	jck
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	01/14/22 0:00	jck
Total Alkalinity		1	68.0		*	mg/L	2	20	01/14/22 0:00	jck
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-3.4			%			01/27/22 0:00	calc
Sum of Anions			1.5			meq/L			01/27/22 0:00	calc
Sum of Cations			1.4			meq/L			01/27/22 0:00	calc
Chloride	SM4500Cl-E	1	<0.5	U	*	mg/L	0.5	2	01/14/22 14:36	md
Conductivity @25C	SM2510B	1	140			umhos/cm	1	10	01/14/22 22:38	jck
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	01/14/22 17:12	mjj1
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		66			mg/L	0.2	5	01/27/22 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							01/14/22 6:24	mlh
Nitrate as N, dissolved	Calculation: NO ₃ NO ₂ minus NO ₂		0.135			mg/L	0.02	0.1	01/27/22 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.135		*	mg/L	0.02	0.1	01/13/22 0:38	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	U	*	mg/L	0.01	0.05	01/13/22 0:38	pjb
pH (lab)	SM4500H+ B									
pH		1	8.1	H		units	0.1	0.1	01/14/22 0:00	jck
pH measured at		1	21.3			C	0.1	0.1	01/14/22 0:00	jck
Residue, Filterable (TDS) @180C	SM2540C	1	96			mg/L	20	40	01/14/22 14:11	emk
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	8.0			mg/L	1	5	01/14/22 14:55	wtc

CRG Mining, LLC

Project ID:

Sample ID: CM2

ACZ Sample ID: **L70866-08**

Date Sampled: 01/11/22 11:20

Date Received: 01/12/22

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								01/14/22 11:21	bls/mjj
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								01/13/22 13:57	mlh

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	01/20/22 16:00	aeH
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	01/21/22 16:25	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00221			mg/L	0.0002	0.001	01/21/22 16:25	mfm
Barium, dissolved	M200.7 ICP	1	0.0096	B		mg/L	0.007	0.035	01/20/22 16:00	aeH
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	01/21/22 16:25	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	0.000074	B		mg/L	0.00005	0.00025	01/21/22 16:25	mfm
Calcium, dissolved	M200.7 ICP	1	17.1			mg/L	0.1	0.5	01/20/22 16:00	aeH
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	01/21/22 16:25	mfm
Cobalt, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	01/20/22 16:00	aeH
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	01/20/22 16:00	aeH
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	01/20/22 16:00	aeH
Lead, dissolved	M200.8 ICP-MS	1	0.00023	B		mg/L	0.0001	0.0005	01/25/22 19:08	kja
Magnesium, dissolved	M200.7 ICP	1	3.16			mg/L	0.2	1	01/20/22 16:00	aeH
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	01/20/22 16:00	aeH
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	01/13/22 14:06	mlh
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	01/20/22 16:00	aeH
Potassium, dissolved	M200.7 ICP	1	0.30	B		mg/L	0.2	1	01/20/22 16:00	aeH
Sodium, dissolved	M200.7 ICP	1	5.44			mg/L	0.2	1	01/20/22 16:00	aeH
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	01/20/22 16:00	aeH
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	01/20/22 16:00	aeH

CRG Mining, LLC

Project ID:

Sample ID: CM2

ACZ Sample ID: **L70866-08**

Date Sampled: 01/11/22 11:20

Date Received: 01/12/22

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	01/14/22 0:00	jck
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	01/14/22 0:00	jck
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	01/14/22 0:00	jck
Total Alkalinity		1	63.6		*	mg/L	2	20	01/14/22 0:00	jck
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-6.7			%			01/27/22 0:00	calc
Sum of Anions			1.6			meq/L			01/27/22 0:00	calc
Sum of Cations			1.4			meq/L			01/27/22 0:00	calc
Chloride	SM4500Cl-E	1	0.57	B	*	mg/L	0.5	2	01/14/22 14:37	md
Conductivity @25C	SM2510B	1	142			umhos/cm	1	10	01/14/22 22:48	jck
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	01/14/22 17:14	mjj1
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		56			mg/L	0.2	5	01/27/22 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							01/14/22 6:28	mlh
Nitrate as N, dissolved	Calculation: NO ₃ NO ₂ minus NO ₂		<0.02	U		mg/L	0.02	0.1	01/27/22 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.02	U	*	mg/L	0.02	0.1	01/13/22 0:39	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	U	*	mg/L	0.01	0.05	01/13/22 0:39	pjb
pH (lab)	SM4500H+ B									
pH		1	8.1	H		units	0.1	0.1	01/14/22 0:00	jck
pH measured at		1	21.2			C	0.1	0.1	01/14/22 0:00	jck
Residue, Filterable (TDS) @180C	SM2540C	1	98			mg/L	20	40	01/14/22 14:14	emk
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	12.5			mg/L	1	5	01/14/22 14:55	wtc

CRG Mining, LLC

Project ID:

Sample ID: CM3

ACZ Sample ID: **L70866-09**

Date Sampled: 01/11/22 12:00

Date Received: 01/12/22

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								01/14/22 11:28	bls/mjj
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								01/13/22 13:57	mlh

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	01/20/22 16:04	aeH
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	01/21/22 16:27	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00146			mg/L	0.0002	0.001	01/21/22 16:27	mfm
Barium, dissolved	M200.7 ICP	1	0.0110	B		mg/L	0.007	0.035	01/20/22 16:04	aeH
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	01/21/22 16:27	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	0.000189	B		mg/L	0.00005	0.00025	01/21/22 16:27	mfm
Calcium, dissolved	M200.7 ICP	1	16.9			mg/L	0.1	0.5	01/20/22 16:04	aeH
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	01/21/22 16:27	mfm
Cobalt, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	01/20/22 16:04	aeH
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	01/20/22 16:04	aeH
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	01/20/22 16:04	aeH
Lead, dissolved	M200.8 ICP-MS	1	0.00020	B		mg/L	0.0001	0.0005	01/25/22 19:10	kja
Magnesium, dissolved	M200.7 ICP	1	5.15			mg/L	0.2	1	01/20/22 16:04	aeH
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	01/20/22 16:04	aeH
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	01/13/22 14:06	mlh
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	01/20/22 16:04	aeH
Potassium, dissolved	M200.7 ICP	1	0.43	B		mg/L	0.2	1	01/20/22 16:04	aeH
Sodium, dissolved	M200.7 ICP	1	2.10			mg/L	0.2	1	01/20/22 16:04	aeH
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	01/20/22 16:04	aeH
Zinc, dissolved	M200.7 ICP	1	0.022	B		mg/L	0.02	0.05	01/20/22 16:04	aeH

CRG Mining, LLC
Project ID:
Sample ID: CM3

ACZ Sample ID: **L70866-09**
Date Sampled: 01/11/22 12:00
Date Received: 01/12/22
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	67.4			mg/L	2	20	01/14/22 0:00	jck
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	01/14/22 0:00	jck
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	01/14/22 0:00	jck
Total Alkalinity		1	67.4		*	mg/L	2	20	01/14/22 0:00	jck
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-6.7			%			01/27/22 0:00	calc
Sum of Anions			1.6			meq/L			01/27/22 0:00	calc
Sum of Cations			1.4			meq/L			01/27/22 0:00	calc
Chloride	SM4500Cl-E	1	0.55	B	*	mg/L	0.5	2	01/14/22 14:38	md
Conductivity @25C	SM2510B	1	142			umhos/cm	1	10	01/14/22 22:58	jck
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	01/14/22 17:15	mjj1
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		63			mg/L	0.2	5	01/27/22 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							01/14/22 6:33	mlh
Nitrate as N, dissolved	Calculation: NO ₃ NO ₂ minus NO ₂		0.122			mg/L	0.02	0.1	01/27/22 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.122		*	mg/L	0.02	0.1	01/13/22 0:41	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	U	*	mg/L	0.01	0.05	01/13/22 0:41	pjb
pH (lab)	SM4500H+ B									
pH		1	8.2	H		units	0.1	0.1	01/14/22 0:00	jck
pH measured at		1	21.4			C	0.1	0.1	01/14/22 0:00	jck
Residue, Filterable (TDS) @180C	SM2540C	1	82			mg/L	20	40	01/14/22 14:17	emk
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	8.5		*	mg/L	1	5	01/17/22 14:26	syw

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>

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ACZ Project ID: **L70866**

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
WG535066													
WG535066PBW1	PBW	01/14/22 19:14				3.7	mg/L		-20	20			
WG535066LCSW3	LCSW	01/14/22 19:34	WC211230-1	820.0001		846.3	mg/L	103	90	110			
L70866-06DUP	DUP	01/14/22 22:02			68.5	69.3	mg/L				1	20	
WG535066LCSW6	LCSW	01/14/22 22:21	WC211230-1	820.0001		848.3	mg/L	103	90	110			
WG535066PBW2	PBW	01/14/22 22:28				4.7	mg/L		-20	20			
L70890-02DUP	DUP	01/14/22 23:45			U	U	mg/L				0	20	RA
WG535066LCSW9	LCSW	01/15/22 1:39	WC211230-1	820.0001		875.1	mg/L	107	90	110			
WG535066PBW3	PBW	01/15/22 1:46				4.2	mg/L		-20	20			
WG535066LCSW12	LCSW	01/15/22 5:12	WC211230-1	820.0001		851.8	mg/L	104	90	110			
WG535066PBW4	PBW	01/15/22 5:20				5.7	mg/L		-20	20			
WG535066LCSW15	LCSW	01/15/22 8:34	WC211230-1	820.0001		877	mg/L	107	90	110			

Aluminum, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG535370													
WG535370ICV	ICV	01/20/22 14:59	II220110-1	2		1.996	mg/L	100	95	105			
WG535370ICB	ICB	01/20/22 15:05				U	mg/L		-0.15	0.15			
WG535370LFB	LFB	01/20/22 15:18	II220118-3	1.0008		1.015	mg/L	101	85	115			
L70866-02AS	AS	01/20/22 15:31	II220118-3	1.0008	U	1.026	mg/L	103	85	115			
L70866-02ASD	ASD	01/20/22 15:34	II220118-3	1.0008	U	1.023	mg/L	102	85	115	0	20	

Antimony, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG535451													
WG535451ICV	ICV	01/21/22 15:31	MS220105-1	.0201		.01937	mg/L	96	90	110			
WG535451ICB	ICB	01/21/22 15:33				.00051	mg/L		-0.00088	0.00088			
WG535451LFB	LFB	01/21/22 15:35	MS211216-3	.01		.00985	mg/L	99	85	115			
L70866-02AS	AS	01/21/22 16:12	MS211216-3	.01	U	.00912	mg/L	91	70	130			
L70866-02ASD	ASD	01/21/22 16:14	MS211216-3	.01	U	.00906	mg/L	91	70	130	1	20	
WG535451ICV1	ICV	01/21/22 18:06	MS220105-1	.0201		.01921	mg/L	96	90	110			
WG535451ICB1	ICB	01/21/22 18:08				.00041	mg/L		-0.00088	0.00088			
WG535451LFB	LFB	01/21/22 18:10	MS211216-3	.01		.01025	mg/L	103	85	115			

Arsenic, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG535451													
WG535451ICV	ICV	01/21/22 15:31	MS220105-1	.05		.05014	mg/L	100	90	110			
WG535451ICB	ICB	01/21/22 15:33				U	mg/L		-0.00044	0.00044			
WG535451LFB	LFB	01/21/22 15:35	MS211216-3	.05005		.04991	mg/L	100	85	115			
L70866-02AS	AS	01/21/22 16:12	MS211216-3	.05005	.00323	.05669	mg/L	107	70	130			
L70866-02ASD	ASD	01/21/22 16:14	MS211216-3	.05005	.00323	.05174	mg/L	97	70	130	9	20	
WG535451ICV1	ICV	01/21/22 18:06	MS220105-1	.05		.04971	mg/L	99	90	110			
WG535451ICB1	ICB	01/21/22 18:08				U	mg/L		-0.00044	0.00044			
WG535451LFB	LFB	01/21/22 18:10	MS211216-3	.05005		.05232	mg/L	105	85	115			

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ACZ Project ID: **L70866**

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.

Barium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG535370													
WG535370ICV	ICV	01/20/22 14:59	II220110-1	2		1.9758	mg/L	99	95	105			
WG535370ICB	ICB	01/20/22 15:05				U	mg/L		-0.021	0.021			
WG535370LFB	LFB	01/20/22 15:18	II220118-3	.5		.4906	mg/L	98	85	115			
L70866-02AS	AS	01/20/22 15:31	II220118-3	.5	.0119	.5	mg/L	98	85	115			
L70866-02ASD	ASD	01/20/22 15:34	II220118-3	.5	.0119	.5017	mg/L	98	85	115	0	20	

Beryllium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG535451													
WG535451ICV	ICV	01/21/22 15:31	MS220105-1	.05		.051396	mg/L	103	90	110			
WG535451ICB	ICB	01/21/22 15:33				.000114	mg/L		-0.000176	0.000176			
WG535451LFB	LFB	01/21/22 15:35	MS211216-3	.05005		.050854	mg/L	102	85	115			
L70866-02AS	AS	01/21/22 16:12	MS211216-3	.05005	U	.054578	mg/L	109	70	130			
L70866-02ASD	ASD	01/21/22 16:14	MS211216-3	.05005	U	.049824	mg/L	100	70	130	9	20	
WG535451ICV1	ICV	01/21/22 18:06	MS220105-1	.05		.050354	mg/L	101	90	110			
WG535451ICB1	ICB	01/21/22 18:08				U	mg/L		-0.000176	0.000176			
WG535451LFB	LFB	01/21/22 18:10	MS211216-3	.05005		.05156	mg/L	103	85	115			

Cadmium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG535451													
WG535451ICV	ICV	01/21/22 15:31	MS220105-1	.05		.051167	mg/L	102	90	110			
WG535451ICB	ICB	01/21/22 15:33				.000087	mg/L		-0.00011	0.00011			
WG535451LFB	LFB	01/21/22 15:35	MS211216-3	.05005		.050374	mg/L	101	85	115			
L70866-02AS	AS	01/21/22 16:12	MS211216-3	.05005	.00347	.056156	mg/L	105	70	130			
L70866-02ASD	ASD	01/21/22 16:14	MS211216-3	.05005	.00347	.051365	mg/L	96	70	130	9	20	
WG535451ICV1	ICV	01/21/22 18:06	MS220105-1	.05		.050859	mg/L	102	90	110			
WG535451ICB1	ICB	01/21/22 18:08				U	mg/L		-0.00011	0.00011			
WG535451LFB	LFB	01/21/22 18:10	MS211216-3	.05005		.051249	mg/L	102	85	115			

Calcium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG535370													
WG535370ICV	ICV	01/20/22 14:59	II220110-1	100		98.52	mg/L	99	95	105			
WG535370ICB	ICB	01/20/22 15:05				U	mg/L		-0.3	0.3			
WG535370LFB	LFB	01/20/22 15:18	II220118-3	67.99026		62.88	mg/L	92	85	115			
L70866-02AS	AS	01/20/22 15:31	II220118-3	67.99026	26.8	88.04	mg/L	90	85	115			
L70866-02ASD	ASD	01/20/22 15:34	II220118-3	67.99026	26.8	88.47	mg/L	91	85	115	0	20	

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ACZ Project ID: **L70866**

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
WG535043													
WG535043ICV	ICV	01/14/22 14:28	WI210503-1	54.89		53.12	mg/L	97	90	110			
WG535043ICB	ICB	01/14/22 14:28				.84	mg/L		-1.5	1.5			
WG535043LFB1	LFB	01/14/22 14:29	WI210908-11	29.97		29.32	mg/L	98	90	110			
L70804-04DUP	DUP	01/14/22 14:31			87.9	83.27	mg/L				5	20	
L70866-07AS	AS	01/14/22 14:37	WI210908-11	29.97	U	29.03	mg/L	97	90	110			
L70866-08DUP	DUP	01/14/22 14:38			.57	U	mg/L				200	20	RA
WG535043LFB2	LFB	01/14/22 14:44	WI210908-11	29.97		29.25	mg/L	98	90	110			
L70804-03AS	AS	01/14/22 15:19	WI210908-11	1498.5	1710	1628.87	mg/L	-5	90	110			M2

Chromium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG535451													
WG535451ICV	ICV	01/21/22 15:31	MS220105-1	.05		.05122	mg/L	102	90	110			
WG535451ICB	ICB	01/21/22 15:33				U	mg/L		-0.0011	0.0011			
WG535451LFB	LFB	01/21/22 15:35	MS211216-3	.05		.05051	mg/L	101	85	115			
L70866-02AS	AS	01/21/22 16:12	MS211216-3	.05	U	.05064	mg/L	101	70	130			
L70866-02ASD	ASD	01/21/22 16:14	MS211216-3	.05	U	.04578	mg/L	92	70	130	10	20	
WG535451ICV1	ICV	01/21/22 18:06	MS220105-1	.05		.05139	mg/L	103	90	110			
WG535451ICB1	ICB	01/21/22 18:08				U	mg/L		-0.0011	0.0011			
WG535451LFB	LFB	01/21/22 18:10	MS211216-3	.05		.05119	mg/L	102	85	115			

Cobalt, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG535370													
WG535370ICV	ICV	01/20/22 14:59	II220110-1	2.01		1.926	mg/L	96	95	105			
WG535370ICB	ICB	01/20/22 15:05				U	mg/L		-0.06	0.06			
WG535370LFB	LFB	01/20/22 15:18	II220118-3	.5005		.486	mg/L	97	85	115			
L70866-02AS	AS	01/20/22 15:31	II220118-3	.5005	U	.485	mg/L	97	85	115			
L70866-02ASD	ASD	01/20/22 15:34	II220118-3	.5005	U	.488	mg/L	98	85	115	1	20	

Conductivity @25C

SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG535066													
WG535066LCSW2	LCSW	01/14/22 19:22	PCN65017	1408		1458	umhos/cm	104	90	110			
L70866-06DUP	DUP	01/14/22 22:02			139	139	umhos/cm				0	20	
WG535066LCSW5	LCSW	01/14/22 22:09	PCN65017	1408		1452	umhos/cm	103	90	110			
L70890-02DUP	DUP	01/14/22 23:45			5520	5530	umhos/cm				0	20	
WG535066LCSW8	LCSW	01/15/22 1:25	PCN65017	1408		1445	umhos/cm	103	90	110			
WG535066LCSW11	LCSW	01/15/22 5:00	PCN65017	1408		1440	umhos/cm	102	90	110			
WG535066LCSW14	LCSW	01/15/22 8:20	PCN65017	1408		1437	umhos/cm	102	90	110			

CRG

ACZ Project ID: **L70866**

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
WG535370													
WG535370ICV	ICV	01/20/22 14:59	II220110-1	2		1.97	mg/L	99	95	105			
WG535370ICB	ICB	01/20/22 15:05				U	mg/L		-0.03	0.03			
WG535370LFB	LFB	01/20/22 15:18	II220118-3	.5		.49	mg/L	98	85	115			
L70866-02AS	AS	01/20/22 15:31	II220118-3	.5	U	.491	mg/L	98	85	115			
L70866-02ASD	ASD	01/20/22 15:34	II220118-3	.5	U	.496	mg/L	99	85	115	1	20	

Cyanide, total

M335.4 - Colorimetric w/ distillation

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG535360													
WG535360ICV	ICV	01/14/22 16:19	WI220111-5	.3003		.3101	mg/L	103	90	110			
WG535360ICB	ICB	01/14/22 16:19				U	mg/L		-0.003	0.003			
WG535363													
WG535363LRB	LRB	01/14/22 16:54				U	mg/L		-0.003	0.003			
WG535363LFB	LFB	01/14/22 16:58	WI220114-2	.2		.2023	mg/L	101	90	110			
L70866-01DUP	DUP	01/14/22 17:04			U	U	mg/L				0	20	RA
L70866-02LFM	LFM	01/14/22 17:06	WI220114-2	.2	U	.1924	mg/L	96	90	110			
L70866-05DUP	DUP	01/14/22 17:09			U	U	mg/L				0	20	RA
L70866-06LFM	LFM	01/14/22 17:11	WI220114-2	.2	U	.1896	mg/L	95	90	110			

Iron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG535370													
WG535370ICV	ICV	01/20/22 14:59	II220110-1	2		1.936	mg/L	97	95	105			
WG535370ICB	ICB	01/20/22 15:05				U	mg/L		-0.18	0.18			
WG535370LFB	LFB	01/20/22 15:18	II220118-3	1.0001		1.007	mg/L	101	85	115			
L70866-02AS	AS	01/20/22 15:31	II220118-3	1.0001	U	1.004	mg/L	100	85	115			
L70866-02ASD	ASD	01/20/22 15:34	II220118-3	1.0001	U	.999	mg/L	100	85	115	0	20	

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG535599													
WG535599ICV	ICV	01/25/22 18:07	MS220105-1	.05		.04953	mg/L	99	90	110			
WG535599ICB	ICB	01/25/22 18:09				U	mg/L		-0.00022	0.00022			
WG535599LFB	LFB	01/25/22 18:11	MS211216-3	.05005		.04412	mg/L	88	85	115			
L70866-06AS	AS	01/25/22 19:02	MS211216-3	.05005	.00011	.04883	mg/L	97	70	130			
L70866-06ASD	ASD	01/25/22 19:04	MS211216-3	.05005	.00011	.04815	mg/L	96	70	130	1	20	

Magnesium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG535370													
WG535370ICV	ICV	01/20/22 14:59	II220110-1	100		95.88	mg/L	96	95	105			
WG535370ICB	ICB	01/20/22 15:05				U	mg/L		-0.6	0.6			
WG535370LFB	LFB	01/20/22 15:18	II220118-3	49.99828		48.31	mg/L	97	85	115			
L70866-02AS	AS	01/20/22 15:31	II220118-3	49.99828	7.9	55.8	mg/L	96	85	115			
L70866-02ASD	ASD	01/20/22 15:34	II220118-3	49.99828	7.9	55.97	mg/L	96	85	115	0	20	

CRG

ACZ Project ID: **L70866**

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
WG535370													
WG535370ICV	ICV	01/20/22 14:59	II220110-1	2		1.927	mg/L	96	95	105			
WG535370ICB	ICB	01/20/22 15:05				U	mg/L		-0.03	0.03			
WG535370LFB	LFB	01/20/22 15:18	II220118-3	.499		.492	mg/L	99	85	115			
L70866-02AS	AS	01/20/22 15:31	II220118-3	.499	.046	.536	mg/L	98	85	115			
L70866-02ASD	ASD	01/20/22 15:34	II220118-3	.499	.046	.539	mg/L	99	85	115	1	20	

Mercury, total

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534912													
WG534912ICV	ICV	01/13/22 9:27	HG220110-3	.00501		.00488	mg/L	97	95	105			
WG534912ICB	ICB	01/13/22 9:28				U	mg/L		-0.0002	0.0002			
WG534939													
WG534939LRB	LRB	01/13/22 13:39				U	mg/L		-0.00044	0.00044			
WG534939LFB	LFB	01/13/22 13:40	HG220110-6	.002002		.00186	mg/L	93	85	115			
L70866-05LFM	LFM	01/13/22 14:02	HG220110-6	.002002	U	.00183	mg/L	91	85	115			
L70866-05LFMD	LFMD	01/13/22 14:03	HG220110-6	.002002	U	.00184	mg/L	92	85	115	1	20	

Nickel, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG535370													
WG535370ICV	ICV	01/20/22 14:59	II220110-1	2		1.9995	mg/L	100	95	105			
WG535370ICB	ICB	01/20/22 15:05				U	mg/L		-0.024	0.024			
WG535370LFB	LFB	01/20/22 15:18	II220118-3	.5005		.5156	mg/L	103	85	115			
L70866-02AS	AS	01/20/22 15:31	II220118-3	.5005	U	.5139	mg/L	103	85	115			
L70866-02ASD	ASD	01/20/22 15:34	II220118-3	.5005	U	.5087	mg/L	102	85	115	1	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
WG534910													
WG534910ICV	ICV	01/12/22 23:59	WI211205-1	2.4161		2.325	mg/L	96	90	110			
WG534910ICB	ICB	01/13/22 0:00				U	mg/L		-0.02	0.02			
WG534910LFB	LFB	01/13/22 0:04	WI211001-5	2		2.052	mg/L	103	90	110			
L70788-01AS	AS	01/13/22 0:07	WI211001-5	2	U	2.026	mg/L	101	90	110			
L70857-01DUP	DUP	01/13/22 0:09			U	U	mg/L				0	20	RA
L70866-02AS	AS	01/13/22 0:26	WI211001-5	2	.376	2.441	mg/L	103	90	110			
L70866-03DUP	DUP	01/13/22 0:29			.166	.161	mg/L				3	20	RA

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
WG534910													
WG534910ICV	ICV	01/12/22 23:59	WI211205-1	.6089		.611	mg/L	100	90	110			
WG534910ICB	ICB	01/13/22 0:00				U	mg/L		-0.01	0.01			
WG534910LFB	LFB	01/13/22 0:04	WI211001-5	1		1.017	mg/L	102	90	110			
L70788-01AS	AS	01/13/22 0:07	WI211001-5	1	U	1.035	mg/L	104	90	110			
L70857-01DUP	DUP	01/13/22 0:09			U	U	mg/L				0	20	RA
L70866-02AS	AS	01/13/22 0:26	WI211001-5	1	U	1.029	mg/L	103	90	110			
L70866-03DUP	DUP	01/13/22 0:29			U	U	mg/L				0	20	RA

CRG

ACZ Project ID: **L70866**

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.

pH (lab) SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG535066													
WG535066LCSW1	LCSW	01/14/22 19:20	PCN62948	6		6.1	units	102	5.9	6.1			
L70866-06DUP	DUP	01/14/22 22:02			8.2	8.2	units				0	20	
WG535066LCSW4	LCSW	01/14/22 22:07	PCN62948	6		6.1	units	102	5.9	6.1			
L70890-02DUP	DUP	01/14/22 23:45			2.7	2.7	units				0	20	
WG535066LCSW7	LCSW	01/15/22 1:23	PCN62948	6		6.1	units	102	5.9	6.1			
WG535066LCSW10	LCSW	01/15/22 4:58	PCN62948	6		6.1	units	102	5.9	6.1			
WG535066LCSW13	LCSW	01/15/22 8:18	PCN62948	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
WG535370													
WG535370ICV	ICV	01/20/22 14:59	II220110-1	20		19.88	mg/L	99	95	105			
WG535370ICB	ICB	01/20/22 15:05				U	mg/L		-0.6	0.6			
WG535370LFB	LFB	01/20/22 15:18	II220118-3	99.95169		99.14	mg/L	99	85	115			
L70866-02AS	AS	01/20/22 15:31	II220118-3	99.95169	.54	99.25	mg/L	99	85	115			
L70866-02ASD	ASD	01/20/22 15:34	II220118-3	99.95169	.54	99.84	mg/L	99	85	115	1	20	

Residue, Filterable (TDS) @180C SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG535040													
WG535040PBW	PBW	01/14/22 13:30				U	mg/L		-20	20			
WG535040LCSW	LCSW	01/14/22 13:32	PCN65059	1000		1000	mg/L	100	80	120			
L70866-03DUP	DUP	01/14/22 14:01			90	86	mg/L				5	10	RA
L70871-04DUP	DUP	01/14/22 14:30			976	968	mg/L				1	10	

Sodium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG535370													
WG535370ICV	ICV	01/20/22 14:59	II220110-1	100		99.86	mg/L	100	95	105			
WG535370ICB	ICB	01/20/22 15:05				U	mg/L		-0.6	0.6			
WG535370LFB	LFB	01/20/22 15:18	II220118-3	100.0039		99.67	mg/L	100	85	115			
L70866-02AS	AS	01/20/22 15:31	II220118-3	100.0039	3.86	103.3	mg/L	99	85	115			
L70866-02ASD	ASD	01/20/22 15:34	II220118-3	100.0039	3.86	103.8	mg/L	100	85	115	0	20	

CRG

ACZ Project ID: **L70866**

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

D516-02/-07/-11 - TURBIDIMETRIC

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG535024													
WG535024ICB	ICB	01/14/22 14:13				U	mg/L		-3	3			
WG535024ICV	ICV	01/14/22 14:13	WI220114-10	20.46		21.5	mg/L	105	90	110			
WG535024LFB	LFB	01/14/22 14:53	WI211230-5	9.95		10.2	mg/L	103	90	110			
L70852-03AS	AS	01/14/22 14:53	WI211230-5	9.95	6.7	16.5	mg/L	98	90	110			
L70905-01AS	AS	01/14/22 14:57	WI211230-5	9.95	13.6	24.2	mg/L	107	90	110			
L70842-01DUP	DUP	01/14/22 15:29			397	397.4	mg/L				0	20	
L70906-01DUP	DUP	01/14/22 15:31			288	281.9	mg/L				2	20	
WG535142													
WG535142ICB	ICB	01/17/22 14:06				U	mg/L		-3	3			
WG535142ICV	ICV	01/17/22 14:06	WI220114-10	20.46		19.2	mg/L	94	90	110			
WG535142LFB	LFB	01/17/22 14:26	WI211230-5	9.95		9.6	mg/L	96	90	110			
L70866-09DUP	DUP	01/17/22 14:26			8.5	8.3	mg/L				2	20	RA
L70870-01AS	AS	01/17/22 15:17	SO4TURB50X	10	1200	1204.3	mg/L	43	90	110			M3

Vanadium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG535370													
WG535370ICV	ICV	01/20/22 14:59	II220110-1	2		1.934	mg/L	97	95	105			
WG535370ICB	ICB	01/20/22 15:05				U	mg/L		-0.015	0.015			
WG535370LFB	LFB	01/20/22 15:18	II220118-3	.5005		.4911	mg/L	98	85	115			
L70866-02AS	AS	01/20/22 15:31	II220118-3	.5005	U	.4883	mg/L	98	85	115			
L70866-02ASD	ASD	01/20/22 15:34	II220118-3	.5005	U	.489	mg/L	98	85	115	0	20	

Zinc, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG535370													
WG535370ICV	ICV	01/20/22 14:59	II220110-1	2		1.953	mg/L	98	95	105			
WG535370ICB	ICB	01/20/22 15:05				U	mg/L		-0.06	0.06			
WG535370LFB	LFB	01/20/22 15:18	II220118-3	.50045		.507	mg/L	101	85	115			
L70866-02AS	AS	01/20/22 15:31	II220118-3	.50045	.327	.826	mg/L	100	85	115			
L70866-02ASD	ASD	01/20/22 15:34	II220118-3	.50045	.327	.823	mg/L	99	85	115	0	20	

CRG Mining, LLC

ACZ Project ID: **L70866**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L70866-01	WG535043	Chloride	SM4500Cl-E	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG535063	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).
	WG534910	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.
	WG535040	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).
L70866-02	WG535043	Chloride	SM4500Cl-E	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG535063	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).
	WG534910	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.
	WG535040	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).
L70866-03	WG535043	Chloride	SM4500Cl-E	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG535063	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).
	WG534910	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.
	WG535040	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: **L70866**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L70866-04	WG535043	Chloride	SM4500CI-E	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG535063	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).
	WG534910	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.
L70866-05	WG535043	Chloride	SM4500CI-E	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG535063	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).
	WG534910	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.
L70866-06	WG535043	Chloride	SM4500CI-E	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG535063	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).
	WG534910	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.

CRG Mining, LLC

ACZ Project ID: **L70866**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L70866-07	WG535043	Chloride	SM4500Cl-E	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).
	WG535063	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).
	WG534910	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.
	WG535066	Total Alkalinity	SM2320B - Titration	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).
L70866-08	WG535043	Chloride	SM4500Cl-E	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).
	WG535063	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).
	WG534910	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.
	WG535066	Total Alkalinity	SM2320B - Titration	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).

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ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L70866-09	WG535043	Chloride	SM4500Cl-E	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).
	WG535063	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).
	WG534910	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.
	WG535142	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	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.
			D516-02/-07/-11 - TURBIDIMETRIC	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).
	WG535066	Total Alkalinity	SM2320B - Titration	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: **L70866**

No certification qualifiers associated with this analysis

CRG Mining, LLC

ACZ Project ID: L70866

Date Received: 01/12/2022 10:59

Received By:

Date Printed: 1/13/2022

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?
-----	-----	-----	-----	-----
6750	2.6	<=6.0	15	Yes

Was ice present in the shipment container(s)?

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

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

CRG Mining, LLC

ACZ Project ID: L70866

Date Received: 01/12/2022 10:59

Received By:

Date Printed: 1/13/2022

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. L70866

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

CHAIN of CUSTODY

Report to:

Name: Steve Wilkinson
Company: CRG MINING LLC
E-mail: SWILKINSON@CRGMINING.COM

Address: 510 S. Wisconsin St
Gunnison, CO 81230
Telephone: 970-417-3311

Copy of Report to:

Name: SID Tolbert
Company: CRG MINING LLC

E-mail: SID_Tolbert@outlook.com
Telephone:

Invoice to:

Name: Steve Wilkinson
Company: CRG MINING LLC
E-mail: SWILKINSON@CRGMINING.COM

Address:

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: Steve Wilkinson Sampler's Site Information State CO Zip code 81230 Time Zone MS

*Sampler's Signature: [Signature]

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#:	Reporting state for compliance testing:	Check box if samples include NRC licensed material?	SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers												
				GL1	1-11-22 9:25AM	SW	5												
				GL2	1-11-22 9:50am	SW	5												
				GL3	1-11-22 10:10am														
				PM1	1-11-22 10:20am														
				PM2	1-11-22 10:35am														
				PM3	1-11-22 10:45am														
				CM1	1-11-22 11:05am														
				CM2	1-11-22 11:20am														
				CM3	1-11-22 12:00	✓	✓												

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

[Signature]

1-11-22/12:30pm

[Signature]

1/2/22 10:59

L70866 Chain of Custody