

October 31, 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

Project ID:

ACZ Project ID: L76594

Jake Wilkinson:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on October 12, 2022. This project has been assigned to ACZ's project number, L76594. Please reference this number in all future inquiries.

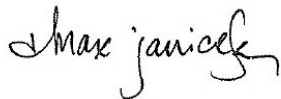
All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L76594. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

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 30, 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: **L76594-01**

Date Sampled: 10/10/22 12:25

Date Received: 10/12/22

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								10/18/22 10:52	wgm
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								10/14/22 13:37	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	10/26/22 18:26	wtc
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	10/19/22 21:02	kja
Arsenic, dissolved	M200.8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.001	10/19/22 21:02	kja
Barium, dissolved	M200.7 ICP	1	0.0103	B		mg/L	0.009	0.035	10/27/22 13:57	wtc
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	10/20/22 13:34	kja
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	10/19/22 21:02	kja
Calcium, dissolved	M200.7 ICP	1	12.2			mg/L	0.1	0.5	10/26/22 18:26	wtc
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	10/19/22 21:02	kja
Cobalt, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	10/26/22 18:26	wtc
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/26/22 18:26	wtc
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	10/26/22 18:26	wtc
Lead, dissolved	M200.8 ICP-MS	1	0.00011	B		mg/L	0.0001	0.0005	10/19/22 21:02	kja
Magnesium, dissolved	M200.7 ICP	1	4.48			mg/L	0.2	1	10/26/22 18:26	wtc
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/26/22 18:26	wtc
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	10/17/22 16:12	mlh
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	10/26/22 18:26	wtc
Potassium, dissolved	M200.7 ICP	1	0.73	B		mg/L	0.2	1	10/26/22 18:26	wtc
Sodium, dissolved	M200.7 ICP	1	1.93			mg/L	0.2	1	10/26/22 18:26	wtc
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	10/27/22 13:57	wtc
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	10/26/22 18:26	wtc

CRG Mining, LLC
Project ID:
Sample ID: GL1

ACZ Sample ID: **L76594-01**
Date Sampled: 10/10/22 12:25
Date Received: 10/12/22
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	67.3			mg/L	2	20	10/19/22 0:00	emk
Carbonate as CaCO ₃		1	8.4	B		mg/L	2	20	10/19/22 0:00	emk
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	10/19/22 0:00	emk
Total Alkalinity		1	75.7			mg/L	2	20	10/19/22 0:00	emk
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-21.4			%			10/31/22 0:00	calc
Sum of Anions			1.7			meq/L			10/31/22 0:00	calc
Sum of Cations			1.1			meq/L			10/31/22 0:00	calc
Chloride	SM4500Cl-E	1	3.85			mg/L	1	2	10/22/22 11:39	gkk
Conductivity @25C	SM2510B	1	122			umhos/cm	1	10	10/19/22 9:25	emk
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	10/18/22 16:40	bls
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		49			mg/L	0.2	5	10/31/22 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							10/21/22 8:07	mlh
Nitrate as N, dissolved	Calculation: NO ₃ NO ₂ minus NO ₂		0.131	H		mg/L	0.02	0.1	10/31/22 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.131	H	*	mg/L	0.02	0.1	10/14/22 22:25	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	UH	*	mg/L	0.01	0.05	10/14/22 22:25	pjb
pH (lab)	SM4500H+ B									
pH		1	8.5	H		units	0.1	0.1	10/19/22 0:00	emk
pH measured at		1	20.9			C	0.1	0.1	10/19/22 0:00	emk
Residue, Filterable (TDS) @180C	SM2540C	1	56		*	mg/L	20	40	10/13/22 16:36	svm
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	5.3		*	mg/L	1	5	10/22/22 19:55	gkk

CRG Mining, LLC

Project ID:

Sample ID: GL2

ACZ Sample ID: **L76594-02**

Date Sampled: 10/10/22 12:36

Date Received: 10/12/22

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								10/18/22 11:05	wgm
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								10/14/22 13:37	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	10/26/22 18:35	wtc
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	10/19/22 21:04	kja
Arsenic, dissolved	M200.8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.001	10/19/22 21:04	kja
Barium, dissolved	M200.7 ICP	1	0.0109	B		mg/L	0.009	0.035	10/27/22 14:06	wtc
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	10/20/22 13:36	kja
Cadmium, dissolved	M200.8 ICP-MS	1	0.000132	B		mg/L	0.00005	0.00025	10/19/22 21:04	kja
Calcium, dissolved	M200.7 ICP	1	13.2			mg/L	0.1	0.5	10/26/22 18:35	wtc
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	10/19/22 21:04	kja
Cobalt, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	10/26/22 18:35	wtc
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/26/22 18:35	wtc
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	10/26/22 18:35	wtc
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	10/19/22 21:04	kja
Magnesium, dissolved	M200.7 ICP	1	4.77			mg/L	0.2	1	10/26/22 18:35	wtc
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/26/22 18:35	wtc
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	10/17/22 16:13	mlh
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	10/26/22 18:35	wtc
Potassium, dissolved	M200.7 ICP	1	0.76	B		mg/L	0.2	1	10/26/22 18:35	wtc
Sodium, dissolved	M200.7 ICP	1	2.01			mg/L	0.2	1	10/26/22 18:35	wtc
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	10/27/22 14:06	wtc
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	10/26/22 18:35	wtc

CRG Mining, LLC

Project ID:

Sample ID: GL2

ACZ Sample ID: **L76594-02**

Date Sampled: 10/10/22 12:36

Date Received: 10/12/22

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	58.6			mg/L	2	20	10/19/22 0:00	emk
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	10/19/22 0:00	emk
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	10/19/22 0:00	emk
Total Alkalinity		1	58.6			mg/L	2	20	10/19/22 0:00	emk
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-11.1			%			10/31/22 0:00	calc
Sum of Anions			1.5			meq/L			10/31/22 0:00	calc
Sum of Cations			1.2			meq/L			10/31/22 0:00	calc
Chloride	SM4500Cl-E	1	5.24		*	mg/L	1	2	10/22/22 11:39	gkk
Conductivity @25C	SM2510B	1	132			umhos/cm	1	10	10/19/22 9:32	emk
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	10/18/22 16:41	bls
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		53			mg/L	0.2	5	10/31/22 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							10/21/22 8:09	mlh
Nitrate as N, dissolved	Calculation: NO ₃ NO ₂ minus NO ₂		0.456	H		mg/L	0.02	0.1	10/31/22 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.456	H	*	mg/L	0.02	0.1	10/14/22 22:28	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	UH	*	mg/L	0.01	0.05	10/14/22 22:28	pjb
pH (lab)	SM4500H+ B									
pH		1	7.2	H		units	0.1	0.1	10/19/22 0:00	emk
pH measured at		1	21.0			C	0.1	0.1	10/19/22 0:00	emk
Residue, Filterable (TDS) @180C	SM2540C	1	62		*	mg/L	20	40	10/13/22 16:38	svm
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	6.8		*	mg/L	1	5	10/22/22 19:22	gkk

CRG Mining, LLC

Project ID:

Sample ID: GL3

ACZ Sample ID: **L76594-03**

Date Sampled: 10/10/22 12:47

Date Received: 10/12/22

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								10/18/22 11:30	wgm
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								10/14/22 13:37	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	10/26/22 18:44	wtc
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	10/19/22 21:06	kja
Arsenic, dissolved	M200.8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.001	10/19/22 21:06	kja
Barium, dissolved	M200.7 ICP	1	0.0106	B		mg/L	0.009	0.035	10/27/22 14:10	wtc
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	10/20/22 13:38	kja
Cadmium, dissolved	M200.8 ICP-MS	1	0.000139	B		mg/L	0.00005	0.00025	10/19/22 21:06	kja
Calcium, dissolved	M200.7 ICP	1	14.5			mg/L	0.1	0.5	10/26/22 18:44	wtc
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	10/19/22 21:06	kja
Cobalt, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	10/26/22 18:44	wtc
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/26/22 18:44	wtc
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	10/26/22 18:44	wtc
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	10/19/22 21:06	kja
Magnesium, dissolved	M200.7 ICP	1	5.23			mg/L	0.2	1	10/26/22 18:44	wtc
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/26/22 18:44	wtc
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	10/17/22 16:14	mlh
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	10/26/22 18:44	wtc
Potassium, dissolved	M200.7 ICP	1	0.77	B		mg/L	0.2	1	10/26/22 18:44	wtc
Sodium, dissolved	M200.7 ICP	1	2.11			mg/L	0.2	1	10/26/22 18:44	wtc
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	10/27/22 14:10	wtc
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	10/26/22 18:44	wtc

CRG Mining, LLC
Project ID:
Sample ID: GL3

ACZ Sample ID: **L76594-03**
Date Sampled: 10/10/22 12:47
Date Received: 10/12/22
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	58.5			mg/L	2	20	10/19/22 0:00	emk
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	10/19/22 0:00	emk
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	10/19/22 0:00	emk
Total Alkalinity		1	58.5			mg/L	2	20	10/19/22 0:00	emk
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-3.7			%			10/31/22 0:00	calc
Sum of Anions			1.4			meq/L			10/31/22 0:00	calc
Sum of Cations			1.3			meq/L			10/31/22 0:00	calc
Chloride	SM4500Cl-E	1	2.96		*	mg/L	1	2	10/22/22 11:39	gkk
Conductivity @25C	SM2510B	1	133			umhos/cm	1	10	10/19/22 9:39	emk
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	10/18/22 16:43	bls
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		58			mg/L	0.2	5	10/31/22 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							10/21/22 8:11	mlh
Nitrate as N, dissolved	Calculation: NO ₃ NO ₂ minus NO ₂		0.459	H		mg/L	0.02	0.1	10/31/22 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.459	H	*	mg/L	0.02	0.1	10/14/22 22:30	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	UH	*	mg/L	0.01	0.05	10/14/22 22:30	pjb
pH (lab)	SM4500H+ B									
pH		1	7.0	H		units	0.1	0.1	10/19/22 0:00	emk
pH measured at		1	21.0			C	0.1	0.1	10/19/22 0:00	emk
Residue, Filterable (TDS) @180C	SM2540C	1	62		*	mg/L	20	40	10/13/22 16:44	svm
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	7.2		*	mg/L	1	5	10/22/22 19:22	gkk

CRG Mining, LLC

Project ID:

Sample ID: RM1

ACZ Sample ID: **L76594-04**

Date Sampled: 10/10/22 13:02

Date Received: 10/12/22

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								10/18/22 11:42	wgm
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								10/14/22 13:37	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	10/26/22 18:47	wtc
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	10/19/22 21:08	kja
Arsenic, dissolved	M200.8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.001	10/19/22 21:08	kja
Barium, dissolved	M200.7 ICP	1	0.0110	B		mg/L	0.009	0.035	10/27/22 14:19	wtc
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	10/20/22 13:40	kja
Cadmium, dissolved	M200.8 ICP-MS	1	0.000122	B		mg/L	0.00005	0.00025	10/19/22 21:08	kja
Calcium, dissolved	M200.7 ICP	1	16.5			mg/L	0.1	0.5	10/26/22 18:47	wtc
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	10/19/22 21:08	kja
Cobalt, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	10/26/22 18:47	wtc
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/26/22 18:47	wtc
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	10/26/22 18:47	wtc
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	10/19/22 21:08	kja
Magnesium, dissolved	M200.7 ICP	1	5.63			mg/L	0.2	1	10/26/22 18:47	wtc
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/26/22 18:47	wtc
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	10/17/22 16:15	mlh
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	10/26/22 18:47	wtc
Potassium, dissolved	M200.7 ICP	1	0.83	B		mg/L	0.2	1	10/26/22 18:47	wtc
Sodium, dissolved	M200.7 ICP	1	1.98			mg/L	0.2	1	10/26/22 18:47	wtc
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	10/27/22 14:19	wtc
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	10/26/22 18:47	wtc

CRG Mining, LLC
Project ID:
Sample ID: RM1

ACZ Sample ID: **L76594-04**
Date Sampled: 10/10/22 13:02
Date Received: 10/12/22
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	64.3			mg/L	2	20	10/19/22 0:00	emk
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	10/19/22 0:00	emk
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	10/19/22 0:00	emk
Total Alkalinity		1	64.3			mg/L	2	20	10/19/22 0:00	emk
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-3.4			%			10/31/22 0:00	calc
Sum of Anions			1.5			meq/L			10/31/22 0:00	calc
Sum of Cations			1.4			meq/L			10/31/22 0:00	calc
Chloride	SM4500Cl-E	1	<1	U	*	mg/L	1	2	10/22/22 11:39	gkk
Conductivity @25C	SM2510B	1	148			umhos/cm	1	10	10/19/22 9:46	emk
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	10/18/22 16:44	bls
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		64			mg/L	0.2	5	10/31/22 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							10/21/22 8:13	mlh
Nitrate as N, dissolved	Calculation: NO ₃ NO ₂ minus NO ₂		0.409	H		mg/L	0.02	0.1	10/31/22 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.409	H	*	mg/L	0.02	0.1	10/14/22 22:31	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	UH	*	mg/L	0.01	0.05	10/14/22 22:31	pjb
pH (lab)	SM4500H+ B									
pH		1	7.0	H		units	0.1	0.1	10/19/22 0:00	emk
pH measured at		1	21.2			C	0.1	0.1	10/19/22 0:00	emk
Residue, Filterable (TDS) @180C	SM2540C	1	78		*	mg/L	20	40	10/13/22 16:46	svm
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	7.3		*	mg/L	1	5	10/22/22 19:22	gkk

CRG Mining, LLC

Project ID:

Sample ID: RM2

ACZ Sample ID: **L76594-05**

Date Sampled: 10/10/22 13:15

Date Received: 10/12/22

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								10/18/22 11:55	wgm
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								10/14/22 13:37	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	10/26/22 18:50	wtc
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	10/19/22 21:13	kja
Arsenic, dissolved	M200.8 ICP-MS	1	0.00862			mg/L	0.0002	0.001	10/19/22 21:13	kja
Barium, dissolved	M200.7 ICP	1	<0.009	U		mg/L	0.009	0.035	10/27/22 14:22	wtc
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	10/20/22 13:45	kja
Cadmium, dissolved	M200.8 ICP-MS	1	0.000522			mg/L	0.00005	0.00025	10/19/22 21:13	kja
Calcium, dissolved	M200.7 ICP	1	14.1			mg/L	0.1	0.5	10/26/22 18:50	wtc
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	10/19/22 21:13	kja
Cobalt, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	10/26/22 18:50	wtc
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/26/22 18:50	wtc
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	10/26/22 18:50	wtc
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	10/19/22 21:13	kja
Magnesium, dissolved	M200.7 ICP	1	3.30			mg/L	0.2	1	10/26/22 18:50	wtc
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/26/22 18:50	wtc
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	10/18/22 14:50	mlh
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	10/26/22 18:50	wtc
Potassium, dissolved	M200.7 ICP	1	1.23			mg/L	0.2	1	10/26/22 18:50	wtc
Sodium, dissolved	M200.7 ICP	1	4.05			mg/L	0.2	1	10/26/22 18:50	wtc
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	10/27/22 14:22	wtc
Zinc, dissolved	M200.7 ICP	1	0.038	B		mg/L	0.02	0.05	10/26/22 18:50	wtc

CRG Mining, LLC
Project ID:
Sample ID: RM2

ACZ Sample ID: **L76594-05**
Date Sampled: 10/10/22 13:15
Date Received: 10/12/22
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	45.2			mg/L	2	20	10/19/22 0:00	emk
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	10/19/22 0:00	emk
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	10/19/22 0:00	emk
Total Alkalinity		1	45.2			mg/L	2	20	10/19/22 0:00	emk
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-4.0			%			10/31/22 0:00	calc
Sum of Anions			1.3			meq/L			10/31/22 0:00	calc
Sum of Cations			1.2			meq/L			10/31/22 0:00	calc
Chloride	SM4500Cl-E	1	<1	U	*	mg/L	1	2	10/22/22 11:39	gkk
Conductivity @25C	SM2510B	1	132			umhos/cm	1	10	10/19/22 9:53	emk
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	10/18/22 16:45	bls
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		49			mg/L	0.2	5	10/31/22 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							10/21/22 8:16	mlh
Nitrate as N, dissolved	Calculation: NO ₃ NO ₂ minus NO ₂		0.043	BH		mg/L	0.02	0.1	10/31/22 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.043	BH	*	mg/L	0.02	0.1	10/14/22 22:33	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	UH	*	mg/L	0.01	0.05	10/14/22 22:33	pjb
pH (lab)	SM4500H+ B									
pH		1	6.7	H		units	0.1	0.1	10/19/22 0:00	emk
pH measured at		1	21.3			C	0.1	0.1	10/19/22 0:00	emk
Residue, Filterable (TDS) @180C	SM2540C	1	72		*	mg/L	20	40	10/13/22 16:49	svm
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	20.4		*	mg/L	1	5	10/22/22 19:22	gkk

CRG Mining, LLC

Project ID:

Sample ID: RM3

ACZ Sample ID: **L76594-06**

Date Sampled: 10/10/22 13:27

Date Received: 10/12/22

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								10/18/22 12:08	wgm
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								10/14/22 13:37	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	10/26/22 18:54	wtc
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	10/19/22 21:19	kja
Arsenic, dissolved	M200.8 ICP-MS	1	0.00094	B		mg/L	0.0002	0.001	10/19/22 21:19	kja
Barium, dissolved	M200.7 ICP	1	0.0098	B		mg/L	0.009	0.035	10/27/22 14:25	wtc
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	10/20/22 13:51	kja
Cadmium, dissolved	M200.8 ICP-MS	1	0.000151	B		mg/L	0.00005	0.00025	10/19/22 21:19	kja
Calcium, dissolved	M200.7 ICP	1	16.2			mg/L	0.1	0.5	10/26/22 18:54	wtc
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	10/19/22 21:19	kja
Cobalt, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	10/26/22 18:54	wtc
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/26/22 18:54	wtc
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	10/26/22 18:54	wtc
Lead, dissolved	M200.8 ICP-MS	1	0.00011	B		mg/L	0.0001	0.0005	10/19/22 21:19	kja
Magnesium, dissolved	M200.7 ICP	1	5.41			mg/L	0.2	1	10/26/22 18:54	wtc
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/26/22 18:54	wtc
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	10/18/22 14:52	mlh
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	10/26/22 18:54	wtc
Potassium, dissolved	M200.7 ICP	1	0.87	B		mg/L	0.2	1	10/26/22 18:54	wtc
Sodium, dissolved	M200.7 ICP	1	2.02			mg/L	0.2	1	10/26/22 18:54	wtc
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	10/27/22 14:25	wtc
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	10/26/22 18:54	wtc

CRG Mining, LLC
Project ID:
Sample ID: RM3

ACZ Sample ID: **L76594-06**
Date Sampled: 10/10/22 13:27
Date Received: 10/12/22
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	64.4			mg/L	2	20	10/19/22 0:00	emk
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	10/19/22 0:00	emk
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	10/19/22 0:00	emk
Total Alkalinity		1	64.4			mg/L	2	20	10/19/22 0:00	emk
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-3.4			%			10/31/22 0:00	calc
Sum of Anions			1.5			meq/L			10/31/22 0:00	calc
Sum of Cations			1.4			meq/L			10/31/22 0:00	calc
Chloride	SM4500Cl-E	1	<1	U	*	mg/L	1	2	10/22/22 11:39	gkk
Conductivity @25C	SM2510B	1	147			umhos/cm	1	10	10/19/22 10:35	emk
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	10/18/22 16:46	bls
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		63			mg/L	0.2	5	10/31/22 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							10/21/22 8:18	mlh
Nitrate as N, dissolved	Calculation: NO ₃ NO ₂ minus NO ₂		0.389	H		mg/L	0.02	0.1	10/31/22 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.389	H	*	mg/L	0.02	0.1	10/14/22 22:38	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	UH	*	mg/L	0.01	0.05	10/14/22 22:38	pjb
pH (lab)	SM4500H+ B									
pH		1	6.7	H		units	0.1	0.1	10/19/22 0:00	emk
pH measured at		1	22.0			C	0.1	0.1	10/19/22 0:00	emk
Residue, Filterable (TDS) @180C	SM2540C	1	76		*	mg/L	20	40	10/13/22 16:51	svm
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	8.5		*	mg/L	1	5	10/22/22 19:22	gkk

CRG Mining, LLC

Project ID:

Sample ID: CM1

ACZ Sample ID: **L76594-07**

Date Sampled: 10/10/22 13:29

Date Received: 10/12/22

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								10/18/22 12:20	wgm
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								10/14/22 13:37	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	10/26/22 18:57	wtc
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	10/19/22 21:21	kja
Arsenic, dissolved	M200.8 ICP-MS	1	0.00092	B		mg/L	0.0002	0.001	10/19/22 21:21	kja
Barium, dissolved	M200.7 ICP	1	0.0102	B		mg/L	0.009	0.035	10/27/22 14:28	wtc
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	10/20/22 13:52	kja
Cadmium, dissolved	M200.8 ICP-MS	1	0.000138	B		mg/L	0.00005	0.00025	10/19/22 21:21	kja
Calcium, dissolved	M200.7 ICP	1	16.5			mg/L	0.1	0.5	10/26/22 18:57	wtc
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	10/19/22 21:21	kja
Cobalt, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	10/26/22 18:57	wtc
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/26/22 18:57	wtc
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	10/26/22 18:57	wtc
Lead, dissolved	M200.8 ICP-MS	1	0.00011	B		mg/L	0.0001	0.0005	10/19/22 21:21	kja
Magnesium, dissolved	M200.7 ICP	1	5.53			mg/L	0.2	1	10/26/22 18:57	wtc
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/26/22 18:57	wtc
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	10/18/22 14:53	mlh
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	10/26/22 18:57	wtc
Potassium, dissolved	M200.7 ICP	1	0.88	B		mg/L	0.2	1	10/26/22 18:57	wtc
Sodium, dissolved	M200.7 ICP	1	1.98			mg/L	0.2	1	10/26/22 18:57	wtc
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	10/27/22 14:28	wtc
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	10/26/22 18:57	wtc

CRG Mining, LLC
Project ID:
Sample ID: CM1

ACZ Sample ID: **L76594-07**
Date Sampled: 10/10/22 13:29
Date Received: 10/12/22
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	66.3			mg/L	2	20	10/19/22 0:00	emk
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	10/19/22 0:00	emk
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	10/19/22 0:00	emk
Total Alkalinity		1	66.3			mg/L	2	20	10/19/22 0:00	emk
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-3.4			%			10/31/22 0:00	calc
Sum of Anions			1.5			meq/L			10/31/22 0:00	calc
Sum of Cations			1.4			meq/L			10/31/22 0:00	calc
Chloride	SM4500Cl-E	1	<1	U	*	mg/L	1	2	10/22/22 11:40	gkk
Conductivity @25C	SM2510B	1	150			umhos/cm	1	10	10/19/22 10:42	emk
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	10/18/22 16:48	bls
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		64.0			mg/L	0.2	5	10/31/22 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							10/21/22 8:20	mlh
Nitrate as N, dissolved	Calculation: NO ₃ NO ₂ minus NO ₂		0.412	H		mg/L	0.02	0.1	10/31/22 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.412	H	*	mg/L	0.02	0.1	10/14/22 22:40	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	UH	*	mg/L	0.01	0.05	10/14/22 22:40	pjb
pH (lab)	SM4500H+ B									
pH		1	6.9	H		units	0.1	0.1	10/19/22 0:00	emk
pH measured at		1	22.2			C	0.1	0.1	10/19/22 0:00	emk
Residue, Filterable (TDS) @180C	SM2540C	1	80		*	mg/L	20	40	10/13/22 16:54	svm
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	9.0		*	mg/L	1	5	10/22/22 19:22	gkk

CRG Mining, LLC

Project ID:

Sample ID: CM2

ACZ Sample ID: **L76594-08**

Date Sampled: 10/10/22 13:54

Date Received: 10/12/22

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								10/18/22 12:45	wgm
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								10/14/22 13:37	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	10/27/22 23:39	wtc
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	10/19/22 21:22	kja
Arsenic, dissolved	M200.8 ICP-MS	1	0.00225			mg/L	0.0002	0.001	10/19/22 21:22	kja
Barium, dissolved	M200.7 ICP	1	0.0121	B		mg/L	0.009	0.035	10/28/22 22:02	keh1
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	10/20/22 13:54	kja
Cadmium, dissolved	M200.8 ICP-MS	1	0.000068	B		mg/L	0.00005	0.00025	10/19/22 21:22	kja
Calcium, dissolved	M200.7 ICP	1	17.6			mg/L	0.1	0.5	10/27/22 23:39	wtc
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	10/19/22 21:22	kja
Cobalt, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	10/27/22 23:39	wtc
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/27/22 23:39	wtc
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	10/27/22 23:39	wtc
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	10/19/22 21:22	kja
Magnesium, dissolved	M200.7 ICP	1	3.51			mg/L	0.2	1	10/27/22 23:39	wtc
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/27/22 23:39	wtc
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	10/18/22 14:54	mlh
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	10/28/22 22:02	keh1
Potassium, dissolved	M200.7 ICP	1	0.63	B		mg/L	0.2	1	10/27/22 23:39	wtc
Sodium, dissolved	M200.7 ICP	1	6.21			mg/L	0.2	1	10/27/22 23:39	wtc
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	10/28/22 22:02	keh1
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	10/27/22 23:39	wtc

CRG Mining, LLC

Project ID:

Sample ID: CM2

ACZ Sample ID: **L76594-08**

Date Sampled: 10/10/22 13:54

Date Received: 10/12/22

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	56.6			mg/L	2	20	10/19/22 0:00	emk
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	10/19/22 0:00	emk
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	10/19/22 0:00	emk
Total Alkalinity		1	56.6			mg/L	2	20	10/19/22 0:00	emk
Cation-Anion Balance	Calculation									
Cation-Anion Balance			0.0			%			10/31/22 0:00	calc
Sum of Anions			1.5			meq/L			10/31/22 0:00	calc
Sum of Cations			1.5			meq/L			10/31/22 0:00	calc
Chloride	SM4500Cl-E	1	<1	U	*	mg/L	1	2	10/22/22 11:40	gkk
Conductivity @25C	SM2510B	1	150			umhos/cm	1	10	10/19/22 10:49	emk
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	10/18/22 16:50	bls
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		58			mg/L	0.2	5	10/31/22 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							10/21/22 8:22	mlh
Nitrate as N, dissolved	Calculation: NO ₃ NO ₂ minus NO ₂		0.085	BH		mg/L	0.02	0.1	10/31/22 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.085	BH	*	mg/L	0.02	0.1	10/14/22 22:41	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	UH	*	mg/L	0.01	0.05	10/14/22 22:41	pjb
pH (lab)	SM4500H+ B									
pH		1	6.9	H		units	0.1	0.1	10/19/22 0:00	emk
pH measured at		1	22.0			C	0.1	0.1	10/19/22 0:00	emk
Residue, Filterable (TDS) @180C	SM2540C	1	86		*	mg/L	20	40	10/13/22 16:57	svm
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	14.8		*	mg/L	1	5	10/22/22 19:22	gkk

CRG Mining, LLC

Project ID:

Sample ID: CM3

ACZ Sample ID: **L76594-09**

Date Sampled: 10/10/22 14:04

Date Received: 10/12/22

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								10/18/22 12:58	wgm
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								10/14/22 13:37	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	10/27/22 23:42	wtc
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	10/19/22 21:24	kja
Arsenic, dissolved	M200.8 ICP-MS	1	0.00109			mg/L	0.0002	0.001	10/19/22 21:24	kja
Barium, dissolved	M200.7 ICP	1	0.0139	B		mg/L	0.009	0.035	10/28/22 22:05	keh1
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	10/20/22 13:56	kja
Cadmium, dissolved	M200.8 ICP-MS	1	0.000143	B		mg/L	0.00005	0.00025	10/19/22 21:24	kja
Calcium, dissolved	M200.7 ICP	1	17.7			mg/L	0.1	0.5	10/27/22 23:42	wtc
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	10/19/22 21:24	kja
Cobalt, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	10/27/22 23:42	wtc
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/27/22 23:42	wtc
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	10/27/22 23:42	wtc
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	10/19/22 21:24	kja
Magnesium, dissolved	M200.7 ICP	1	5.72			mg/L	0.2	1	10/27/22 23:42	wtc
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/27/22 23:42	wtc
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	10/18/22 14:55	mlh
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	10/28/22 22:05	keh1
Potassium, dissolved	M200.7 ICP	1	0.78	B		mg/L	0.2	1	10/27/22 23:42	wtc
Sodium, dissolved	M200.7 ICP	1	2.44			mg/L	0.2	1	10/27/22 23:42	wtc
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	10/28/22 22:05	keh1
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	10/27/22 23:42	wtc

CRG Mining, LLC
Project ID:
Sample ID: CM3

ACZ Sample ID: **L76594-09**
Date Sampled: 10/10/22 14:04
Date Received: 10/12/22
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	10/19/22 0:00	emk
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	10/19/22 0:00	emk
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	10/19/22 0:00	emk
Total Alkalinity		1	63.1			mg/L	2	20	10/19/22 0:00	emk
Cation-Anion Balance	Calculation									
Cation-Anion Balance			0.0			%			10/31/22 0:00	calc
Sum of Anions			1.5			meq/L			10/31/22 0:00	calc
Sum of Cations			1.5			meq/L			10/31/22 0:00	calc
Chloride	SM4500Cl-E	1	<1	U	*	mg/L	1	2	10/22/22 11:40	gkk
Conductivity @25C	SM2510B	1	151			umhos/cm	1	10	10/19/22 10:57	emk
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	10/18/22 16:51	bls
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		68			mg/L	0.2	5	10/31/22 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							10/21/22 8:24	mlh
Nitrate as N, dissolved	Calculation: NO ₃ NO ₂ minus NO ₂		0.359	H		mg/L	0.02	0.1	10/31/22 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.359	H	*	mg/L	0.02	0.1	10/14/22 22:42	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	UH	*	mg/L	0.01	0.05	10/14/22 22:42	pjb
pH (lab)	SM4500H+ B									
pH		1	6.9	H		units	0.1	0.1	10/19/22 0:00	emk
pH measured at		1	22.1			C	0.1	0.1	10/19/22 0:00	emk
Residue, Filterable (TDS) @180C	SM2540C	1	80		*	mg/L	20	40	10/13/22 16:59	svm
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	9.5		*	mg/L	1	5	10/22/22 19:23	gkk



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

ACZ Project ID: **L76594**

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
WG553058													
WG553058PBW1	PBW	10/18/22 20:14				4.5	mg/L		-20	20			
WG553058LCSW3	LCSW	10/18/22 20:33	WC221018-7	820.0001		754.2	mg/L	92	90	110			
WG553058LCSW6	LCSW	10/19/22 0:03	WC221018-7	820.0001		769	mg/L	94	90	110			
WG553058PBW2	PBW	10/19/22 0:11				10	mg/L		-20	20			
WG553058LCSW9	LCSW	10/19/22 3:41	WC221018-7	820.0001		767.9	mg/L	94	90	110			
WG553058PBW3	PBW	10/19/22 3:49				8.6	mg/L		-20	20			
WG553058LCSW12	LCSW	10/19/22 6:53	WC221018-7	820.0001		773.1	mg/L	94	90	110			
WG553058PBW4	PBW	10/19/22 7:02				10.3	mg/L		-20	20			
L76594-05DUP	DUP	10/19/22 10:00			45.2	43.9	mg/L				3	20	
WG553058LCSW15	LCSW	10/19/22 10:20	WC221018-7	820.0001		782.6	mg/L	95	90	110			
WG553058PBW5	PBW	10/19/22 10:28				9.6	mg/L		-20	20			
L76605-02DUP	DUP	10/19/22 11:51			76.2	90.7	mg/L				17	20	
WG553058LCSW18	LCSW	10/19/22 12:10	WC221018-7	820.0001		769.7	mg/L	94	90	110			

Aluminum, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG553689													
WG553689ICV	ICV	10/26/22 17:12	II221025-1	2		2.002	mg/L	100	95	105			
WG553689ICB	ICB	10/26/22 17:18				U	mg/L		-0.15	0.15			
WG553689LFB	LFB	10/26/22 17:30	II221013-2	1.0008		.95	mg/L	95	85	115			
L76594-01AS	AS	10/26/22 18:29	II221013-2	1.0008	U	.918	mg/L	92	85	115			
L76594-01ASD	ASD	10/26/22 18:32	II221013-2	1.0008	U	.99	mg/L	99	85	115	8	20	
WG553747													
WG553747ICV	ICV	10/27/22 22:17	II221025-1	2		1.998	mg/L	100	95	105			
WG553747ICB	ICB	10/27/22 22:23				U	mg/L		-0.15	0.15			
WG553747LFB	LFB	10/27/22 22:36	II221013-2	1.0008		1.009	mg/L	101	85	115			
L76596-02AS	AS	10/27/22 23:58	II221013-2	1.0008	U	1.09	mg/L	109	85	115			
L76596-02ASD	ASD	10/28/22 0:01	II221013-2	1.0008	U	.992	mg/L	99	85	115	9	20	

Antimony, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG553167													
WG553167ICV	ICV	10/19/22 20:57	MS220930-3	.0201		.01933	mg/L	96	90	110			
WG553167ICB	ICB	10/19/22 20:59				U	mg/L		-0.00088	0.00088			
WG553167LFB	LFB	10/19/22 21:01	MS221012-7	.01		.00969	mg/L	97	85	115			
L76594-04AS	AS	10/19/22 21:10	MS221012-7	.01	U	.0094	mg/L	94	70	130			
L76594-04ASD	ASD	10/19/22 21:11	MS221012-7	.01	U	.00944	mg/L	94	70	130	0	20	

Arsenic, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG553167													
WG553167ICV	ICV	10/19/22 20:57	MS220930-3	.05		.05046	mg/L	101	90	110			
WG553167ICB	ICB	10/19/22 20:59				U	mg/L		-0.00044	0.00044			
WG553167LFB	LFB	10/19/22 21:01	MS221012-7	.05005		.04971	mg/L	99	85	115			
L76594-04AS	AS	10/19/22 21:10	MS221012-7	.05005	U	.05346	mg/L	107	70	130			
L76594-04ASD	ASD	10/19/22 21:11	MS221012-7	.05005	U	.05389	mg/L	108	70	130	1	20	

CRG

ACZ Project ID: **L76594**

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
WG553728													
WG553728ICV	ICV	10/27/22 12:45	II221025-1	2		2.0225	mg/L	101	95	105			
WG553728ICB	ICB	10/27/22 12:51				U	mg/L		-0.027	0.027			
WG553728LFB	LFB	10/27/22 13:03	II221013-2	.502		.5025	mg/L	100	85	115			
L76594-01AS	AS	10/27/22 14:00	II221013-2	.502	.0103	.5332	mg/L	104	85	115			
L76594-01ASD	ASD	10/27/22 14:03	II221013-2	.502	.0103	.516	mg/L	101	85	115	3	20	
WG553834													
WG553834ICV	ICV	10/28/22 20:46	II221025-1	2		1.962	mg/L	98	95	105			
WG553834ICB	ICB	10/28/22 20:52				U	mg/L		-0.027	0.027			
WG553834LFB	LFB	10/28/22 21:04	II221026-6	.502		.502	mg/L	100	85	115			
L76596-02AS	AS	10/28/22 22:21	II221026-6	.502	.0268	.5372	mg/L	102	85	115			
L76596-02ASD	ASD	10/28/22 22:24	II221026-6	.502	.0268	.5288	mg/L	100	85	115	2	20	

Beryllium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG553237													
WG553237ICV	ICV	10/20/22 13:29	MS220930-3	.05		.050412	mg/L	101	90	110			
WG553237ICB	ICB	10/20/22 13:31				U	mg/L		-0.000176	0.000176			
WG553237LFB	LFB	10/20/22 13:33	MS221012-7	.05005		.050512	mg/L	101	85	115			
L76594-04AS	AS	10/20/22 13:42	MS221012-7	.05005	U	.053419	mg/L	107	70	130			
L76594-04ASD	ASD	10/20/22 13:43	MS221012-7	.05005	U	.053786	mg/L	107	70	130	1	20	

Cadmium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG553167													
WG553167ICV	ICV	10/19/22 20:57	MS220930-3	.05		.05051	mg/L	101	90	110			
WG553167ICB	ICB	10/19/22 20:59				U	mg/L		-0.00011	0.00011			
WG553167LFB	LFB	10/19/22 21:01	MS221012-7	.05005		.048978	mg/L	98	85	115			
L76594-04AS	AS	10/19/22 21:10	MS221012-7	.05005	.000122	.053256	mg/L	106	70	130			
L76594-04ASD	ASD	10/19/22 21:11	MS221012-7	.05005	.000122	.052656	mg/L	105	70	130	1	20	

Calcium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG553689													
WG553689ICV	ICV	10/26/22 17:12	II221025-1	100		98.66	mg/L	99	95	105			
WG553689ICB	ICB	10/26/22 17:18				U	mg/L		-0.3	0.3			
WG553689LFB	LFB	10/26/22 17:30	II221013-2	67.98862		67.36	mg/L	99	85	115			
L76594-01AS	AS	10/26/22 18:29	II221013-2	67.98862	12.2	75.78	mg/L	94	85	115			
L76594-01ASD	ASD	10/26/22 18:32	II221013-2	67.98862	12.2	81.18	mg/L	101	85	115	7	20	
WG553747													
WG553747ICV	ICV	10/27/22 22:17	II221025-1	100		99.63	mg/L	100	95	105			
WG553747ICB	ICB	10/27/22 22:23				U	mg/L		-0.3	0.3			
WG553747LFB	LFB	10/27/22 22:36	II221013-2	67.98862		68.07	mg/L	100	85	115			
L76596-02AS	AS	10/27/22 23:58	II221013-2	67.98862	6.54	79.67	mg/L	108	85	115			
L76596-02ASD	ASD	10/28/22 0:01	II221013-2	67.98862	6.54	72.59	mg/L	97	85	115	9	20	

CRG

ACZ Project ID: **L76594**

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
WG553378													
WG553378ICB	ICB	10/22/22 10:32				U	mg/L		-3	3			
WG553378ICV	ICV	10/22/22 10:32	WI220502-12	54.945		55.39	mg/L	101	90	110			
WG553378LFB	LFB	10/22/22 11:37	WI220328-1	29.97		30.7	mg/L	102	90	110			
L75995-02AS	AS	10/22/22 11:37	WI220328-1	29.97	14.3	46.08	mg/L	106	90	110			
L75995-03DUP	DUP	10/22/22 11:37			31.2	31.23	mg/L				0	20	
L76594-03AS	AS	10/22/22 11:39	WI220328-1	29.97	2.96	34.56	mg/L	105	90	110			
L76594-04DUP	DUP	10/22/22 11:39			U	U	mg/L				0	20	RA

Chromium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG553167													
WG553167ICV	ICV	10/19/22 20:57	MS220930-3	.05		.05113	mg/L	102	90	110			
WG553167ICB	ICB	10/19/22 20:59				U	mg/L		-0.0011	0.0011			
WG553167LFB	LFB	10/19/22 21:01	MS221012-7	.0501		.04965	mg/L	99	85	115			
L76594-04AS	AS	10/19/22 21:10	MS221012-7	.0501	U	.05076	mg/L	101	70	130			
L76594-04ASD	ASD	10/19/22 21:11	MS221012-7	.0501	U	.05141	mg/L	103	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
WG553689													
WG553689ICV	ICV	10/26/22 17:12	II221025-1	2.006		2.001	mg/L	100	95	105			
WG553689ICB	ICB	10/26/22 17:18				U	mg/L		-0.06	0.06			
WG553689LFB	LFB	10/26/22 17:30	II221013-2	.5005		.476	mg/L	95	85	115			
L76594-01AS	AS	10/26/22 18:29	II221013-2	.5005	U	.48	mg/L	96	85	115			
L76594-01ASD	ASD	10/26/22 18:32	II221013-2	.5005	U	.467	mg/L	93	85	115	3	20	
WG553747													
WG553747ICV	ICV	10/27/22 22:17	II221025-1	2.006		1.967	mg/L	98	95	105			
WG553747ICB	ICB	10/27/22 22:23				U	mg/L		-0.06	0.06			
WG553747LFB	LFB	10/27/22 22:36	II221013-2	.5005		.504	mg/L	101	85	115			
L76596-02AS	AS	10/27/22 23:58	II221013-2	.5005	U	.497	mg/L	99	85	115			
L76596-02ASD	ASD	10/28/22 0:01	II221013-2	.5005	U	.518	mg/L	103	85	115	4	20	

Conductivity @25C

SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG553058													
WG553058LCSW2	LCSW	10/18/22 20:20	PCN623515	1409		1453	umhos/cm	103	90	110			
WG553058LCSW5	LCSW	10/18/22 23:49	PCN623515	1409		1459	umhos/cm	104	90	110			
WG553058LCSW8	LCSW	10/19/22 3:27	PCN623515	1409		1457	umhos/cm	103	90	110			
WG553058LCSW11	LCSW	10/19/22 6:39	PCN623515	1409		1443	umhos/cm	102	90	110			
L76594-05DUP	DUP	10/19/22 10:00			132	132	umhos/cm				0	20	
WG553058LCSW14	LCSW	10/19/22 10:06	PCN623515	1409		1431	umhos/cm	102	90	110			
L76605-02DUP	DUP	10/19/22 11:51			238	236	umhos/cm				1	20	
WG553058LCSW17	LCSW	10/19/22 11:56	PCN623515	1409		1422	umhos/cm	101	90	110			

CRG

ACZ Project ID: **L76594**

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
WG553689													
WG553689ICV	ICV	10/26/22 17:12	II221025-1	2		2.041	mg/L	102	95	105			
WG553689ICB	ICB	10/26/22 17:18				U	mg/L		-0.03	0.03			
WG553689LFB	LFB	10/26/22 17:30	II221013-2	.5005		.492	mg/L	98	85	115			
L76594-01AS	AS	10/26/22 18:29	II221013-2	.5005	U	.498	mg/L	100	85	115			
L76594-01ASD	ASD	10/26/22 18:32	II221013-2	.5005	U	.486	mg/L	97	85	115	2	20	
WG553747													
WG553747ICV	ICV	10/27/22 22:17	II221025-1	2		1.98	mg/L	99	95	105			
WG553747ICB	ICB	10/27/22 22:23				U	mg/L		-0.03	0.03			
WG553747LFB	LFB	10/27/22 22:36	II221013-2	.5005		.507	mg/L	101	85	115			
L76596-02AS	AS	10/27/22 23:58	II221013-2	.5005	U	.517	mg/L	103	85	115			
L76596-02ASD	ASD	10/28/22 0:01	II221013-2	.5005	U	.533	mg/L	106	85	115	3	20	

Cyanide, total

M335.4 - Colorimetric w/ distillation

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG553050													
WG553050ICV	ICV	10/18/22 16:01	WI221012-6	.3003		.2897	mg/L	96	90	110			
WG553050ICB	ICB	10/18/22 16:02				U	mg/L		-0.003	0.003			
WG553055													
WG552971LRB	LRB	10/18/22 16:38				U	mg/L		-0.003	0.003			
WG552971LFB	LFB	10/18/22 16:39	WI221011-7	.2		.2028	mg/L	101	90	110			
L76594-02DUP	DUP	10/18/22 16:42			U	U	mg/L				0	20	RA
L76594-07LFM	LFM	10/18/22 16:49	WI221011-7	.2	U	.2026	mg/L	101	90	110			

Iron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG553689													
WG553689ICV	ICV	10/26/22 17:12	II221025-1	2		1.994	mg/L	100	95	105			
WG553689ICB	ICB	10/26/22 17:18				U	mg/L		-0.18	0.18			
WG553689LFB	LFB	10/26/22 17:30	II221013-2	1.0013		.942	mg/L	94	85	115			
L76594-01AS	AS	10/26/22 18:29	II221013-2	1.0013	U	.969	mg/L	97	85	115			
L76594-01ASD	ASD	10/26/22 18:32	II221013-2	1.0013	U	.954	mg/L	95	85	115	2	20	
WG553747													
WG553747ICV	ICV	10/27/22 22:17	II221025-1	2		1.987	mg/L	99	95	105			
WG553747ICB	ICB	10/27/22 22:23				U	mg/L		-0.18	0.18			
WG553747LFB	LFB	10/27/22 22:36	II221013-2	1.0013		1.01	mg/L	101	85	115			
L76596-02AS	AS	10/27/22 23:58	II221013-2	1.0013	U	1.012	mg/L	101	85	115			
L76596-02ASD	ASD	10/28/22 0:01	II221013-2	1.0013	U	1.042	mg/L	104	85	115	3	20	

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG553167													
WG553167ICV	ICV	10/19/22 20:57	MS220930-3	.05		.05117	mg/L	102	90	110			
WG553167ICB	ICB	10/19/22 20:59				U	mg/L		-0.00022	0.00022			
WG553167LFB	LFB	10/19/22 21:01	MS221012-7	.0501		.04992	mg/L	100	85	115			
L76594-04AS	AS	10/19/22 21:10	MS221012-7	.0501	U	.05362	mg/L	107	70	130			
L76594-04ASD	ASD	10/19/22 21:11	MS221012-7	.0501	U	.05399	mg/L	108	70	130	1	20	

CRG

ACZ Project ID: **L76594**

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.

Magnesium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG553689													
WG553689ICV	ICV	10/26/22 17:12	II221025-1	100		97.5	mg/L	98	95	105			
WG553689ICB	ICB	10/26/22 17:18				U	mg/L		-0.6	0.6			
WG553689LFB	LFB	10/26/22 17:30	II221013-2	49.99809		48.61	mg/L	97	85	115			
L76594-01AS	AS	10/26/22 18:29	II221013-2	49.99809	4.48	50.5	mg/L	92	85	115			
L76594-01ASD	ASD	10/26/22 18:32	II221013-2	49.99809	4.48	54.12	mg/L	99	85	115	7	20	
WG553747													
WG553747ICV	ICV	10/27/22 22:17	II221025-1	100		98.95	mg/L	99	95	105			
WG553747ICB	ICB	10/27/22 22:23				U	mg/L		-0.6	0.6			
WG553747LFB	LFB	10/27/22 22:36	II221013-2	49.99809		49.2	mg/L	98	85	115			
L76596-02AS	AS	10/27/22 23:58	II221013-2	49.99809	2.2	55.23	mg/L	106	85	115			
L76596-02ASD	ASD	10/28/22 0:01	II221013-2	49.99809	2.2	50.19	mg/L	96	85	115	10	20	

Manganese, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG553689													
WG553689ICV	ICV	10/26/22 17:12	II221025-1	2		1.998	mg/L	100	95	105			
WG553689ICB	ICB	10/26/22 17:18				U	mg/L		-0.03	0.03			
WG553689LFB	LFB	10/26/22 17:30	II221013-2	.499		.492	mg/L	99	85	115			
L76594-01AS	AS	10/26/22 18:29	II221013-2	.499	U	.494	mg/L	99	85	115			
L76594-01ASD	ASD	10/26/22 18:32	II221013-2	.499	U	.491	mg/L	98	85	115	1	20	
WG553747													
WG553747ICV	ICV	10/27/22 22:17	II221025-1	2		1.949	mg/L	97	95	105			
WG553747ICB	ICB	10/27/22 22:23				U	mg/L		-0.03	0.03			
WG553747LFB	LFB	10/27/22 22:36	II221013-2	.499		.511	mg/L	102	85	115			
L76596-02AS	AS	10/27/22 23:58	II221013-2	.499	U	.509	mg/L	102	85	115			
L76596-02ASD	ASD	10/28/22 0:01	II221013-2	.499	U	.521	mg/L	104	85	115	2	20	

Mercury, total

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG552898													
WG552898ICV1	ICV	10/17/22 14:51	HG221017-3	.005005		.00506	mg/L	101	95	105			
WG552898ICB	ICB	10/17/22 14:52				U	mg/L		-0.0002	0.0002			
WG552899													
WG552899LRB	LRB	10/17/22 15:48				U	mg/L		-0.00044	0.00044			
WG552899LFB	LFB	10/17/22 15:49	HG221017-6	.002002		.00186	mg/L	93	85	115			
L76587-05LFM	LFM	10/17/22 16:04	HG221017-6	.002002	U	.00184	mg/L	92	85	115			
L76587-05LFMD	LFMD	10/17/22 16:05	HG221017-6	.002002	U	.00171	mg/L	85	85	115	7	20	
WG552921													
WG552921ICV1	ICV	10/18/22 14:09	HG221017-3	.005005		.00511	mg/L	102	95	105			
WG552921ICB	ICB	10/18/22 14:10				U	mg/L		-0.0002	0.0002			
WG552922													
WG552922LRB	LRB	10/18/22 14:48				U	mg/L		-0.00044	0.00044			
WG552922LFB	LFB	10/18/22 14:49	HG221017-6	.002002		.00198	mg/L	99	85	115			
L76594-05LFM	LFM	10/18/22 14:51	HG221017-6	.002002	U	.00198	mg/L	99	85	115			
L76594-05LFMD	LFMD	10/18/22 14:52	HG221017-6	.002002	U	.0019	mg/L	95	85	115	4	20	

CRG

ACZ Project ID: **L76594**

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

Nickel, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG553689													
WG553689ICV	ICV	10/26/22 17:12	II221025-1	2		1.9552	mg/L	98	95	105			
WG553689ICB	ICB	10/26/22 17:18				U	mg/L		-0.024	0.024			
WG553689LFB	LFB	10/26/22 17:30	II221013-2	.502		.4875	mg/L	97	85	115			
L76594-01AS	AS	10/26/22 18:29	II221013-2	.502	U	.4843	mg/L	96	85	115			
L76594-01ASD	ASD	10/26/22 18:32	II221013-2	.502	U	.4761	mg/L	95	85	115	2	20	
WG553834													
WG553834ICV	ICV	10/28/22 20:46	II221025-1	2		1.949	mg/L	97	95	105			
WG553834ICB	ICB	10/28/22 20:52				U	mg/L		-0.024	0.024			
WG553834LFB	LFB	10/28/22 21:04	II221026-6	.502		.5133	mg/L	102	85	115			
L76596-02AS	AS	10/28/22 22:21	II221026-6	.502	U	.5127	mg/L	102	85	115			
L76596-02ASD	ASD	10/28/22 22:24	II221026-6	.502	U	.4987	mg/L	99	85	115	3	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
WG552854													
WG552854ICV	ICV	10/14/22 22:19	WI220903-1	2.416		2.342	mg/L	97	90	110			
WG552854ICB	ICB	10/14/22 22:20				U	mg/L		-0.02	0.02			
WG552854LFB	LFB	10/14/22 22:24	WI220826-7	2		2.012	mg/L	101	90	110			
L76594-01AS	AS	10/14/22 22:26	WI220826-7	2	.131	2.139	mg/L	100	90	110			
L76594-02DUP	DUP	10/14/22 22:29			.456	.468	mg/L				3	20	

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
WG552854													
WG552854ICV	ICV	10/14/22 22:19	WI220903-1	.608		.601	mg/L	99	90	110			
WG552854ICB	ICB	10/14/22 22:20				U	mg/L		-0.01	0.01			
WG552854LFB	LFB	10/14/22 22:24	WI220826-7	1		1.015	mg/L	102	90	110			
L76594-01AS	AS	10/14/22 22:26	WI220826-7	1	U	1.015	mg/L	102	90	110			
L76594-02DUP	DUP	10/14/22 22:29			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
WG553058													
WG553058LCSW1	LCSW	10/18/22 20:18	PCN65296	6		6	units	100	5.9	6.1			
WG553058LCSW4	LCSW	10/18/22 23:48	PCN65296	6		6	units	100	5.9	6.1			
WG553058LCSW10	LCSW	10/19/22 6:37	PCN65296	6		6.1	units	102	5.9	6.1			
L76594-05DUP	DUP	10/19/22 10:00			6.7	6.7	units				0	20	
WG553058LCSW13	LCSW	10/19/22 10:04	PCN65296	6		6	units	100	5.9	6.1			
L76605-02DUP	DUP	10/19/22 11:51			7.1	7.1	units				0	20	
WG553058LCSW16	LCSW	10/19/22 11:55	PCN65296	6		6	units	100	5.9	6.1			

CRG

ACZ Project ID: **L76594**

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

Potassium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG553689													
WG553689ICV	ICV	10/26/22 17:12	II221025-1	20		19.55	mg/L	98	95	105			
WG553689ICB	ICB	10/26/22 17:18				U	mg/L		-0.6	0.6			
WG553689LFB	LFB	10/26/22 17:30	II221013-2	99.95798		96.53	mg/L	97	85	115			
L76594-01AS	AS	10/26/22 18:29	II221013-2	99.95798	.73	93.16	mg/L	92	85	115			
L76594-01ASD	ASD	10/26/22 18:32	II221013-2	99.95798	.73	100.5	mg/L	100	85	115	8	20	
WG553747													
WG553747ICV	ICV	10/27/22 22:17	II221025-1	20		19.75	mg/L	99	95	105			
WG553747ICB	ICB	10/27/22 22:23				U	mg/L		-0.6	0.6			
WG553747LFB	LFB	10/27/22 22:36	II221013-2	99.95798		97.28	mg/L	97	85	115			
L76596-02AS	AS	10/27/22 23:58	II221013-2	99.95798	1.3	106	mg/L	105	85	115			
L76596-02ASD	ASD	10/28/22 0:01	II221013-2	99.95798	1.3	95.97	mg/L	95	85	115	10	20	

Residue, Filterable (TDS) @180C

SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG552748													
WG552748PBW	PBW	10/13/22 16:10				U	mg/L		-20	20			
WG552748LCSW	LCSW	10/13/22 16:12	PCN623508	1000		982	mg/L	98	80	120			
L76594-02DUP	DUP	10/13/22 16:41			62	62	mg/L				0	10	RA
L76639-03DUP	DUP	10/13/22 17:10			9800	10100	mg/L				3	10	RA

Sodium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG553689													
WG553689ICV	ICV	10/26/22 17:12	II221025-1	100		97.56	mg/L	98	95	105			
WG553689ICB	ICB	10/26/22 17:18				U	mg/L		-0.6	0.6			
WG553689LFB	LFB	10/26/22 17:30	II221013-2	100.0023		95.69	mg/L	96	85	115			
L76594-01AS	AS	10/26/22 18:29	II221013-2	100.0023	1.93	94.17	mg/L	92	85	115			
L76594-01ASD	ASD	10/26/22 18:32	II221013-2	100.0023	1.93	101	mg/L	99	85	115	7	20	
WG553747													
WG553747ICV	ICV	10/27/22 22:17	II221025-1	100		98.52	mg/L	99	95	105			
WG553747ICB	ICB	10/27/22 22:23				U	mg/L		-0.6	0.6			
WG553747LFB	LFB	10/27/22 22:36	II221013-2	100.0023		96.47	mg/L	96	85	115			
L76596-02AS	AS	10/27/22 23:58	II221013-2	100.0023	8.86	113.4	mg/L	105	85	115			
L76596-02ASD	ASD	10/28/22 0:01	II221013-2	100.0023	8.86	103.2	mg/L	94	85	115	9	20	

Sulfate

D516-02/-07/-11 - TURBIDIMETRIC

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG553390													
WG553390ICB	ICB	10/22/22 14:34				U	mg/L		-3	3			
WG553390ICV	ICV	10/22/22 14:34	WI221017-1	19.54		19.7	mg/L	101	90	110			
WG553390LFB	LFB	10/22/22 19:20	WI220830-3	10		10	mg/L	100	90	110			
L76594-06AS	AS	10/22/22 19:22	WI220830-3	10	8.5	20.3	mg/L	118	90	110			M1
L76594-07DUP	DUP	10/22/22 19:22			9	8.8	mg/L				2	20	RA
L76569-03AS	AS	10/22/22 19:55	WI220830-3	10	5.1	16.5	mg/L	114	90	110			M1
L76561-08DUP	DUP	10/22/22 20:18			2570	2594.9	mg/L				1	20	

CRG

ACZ Project ID: **L76594**

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.

Vanadium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG553728													
WG553728ICV	ICV	10/27/22 12:45	II221025-1	2		2.076	mg/L	104	95	105			
WG553728ICB	ICB	10/27/22 12:51				U	mg/L		-0.015	0.015			
WG553728LFB	LFB	10/27/22 13:03	II221013-2	.5005		.5222	mg/L	104	85	115			
L76594-01AS	AS	10/27/22 14:00	II221013-2	.5005	U	.5226	mg/L	104	85	115			
L76594-01ASD	ASD	10/27/22 14:03	II221013-2	.5005	U	.553	mg/L	110	85	115	6	20	
WG553834													
WG553834ICV	ICV	10/28/22 20:46	II221025-1	2		2.018	mg/L	101	95	105			
WG553834ICB	ICB	10/28/22 20:52				U	mg/L		-0.015	0.015			
WG553834LFB	LFB	10/28/22 21:04	II221026-6	.5005		.5133	mg/L	103	85	115			
L76596-02AS	AS	10/28/22 22:21	II221026-6	.5005	U	.5162	mg/L	103	85	115			
L76596-02ASD	ASD	10/28/22 22:24	II221026-6	.5005	U	.519	mg/L	104	85	115	1	20	

Zinc, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG553689													
WG553689ICV	ICV	10/26/22 17:12	II221025-1	2		1.95	mg/L	98	95	105			
WG553689ICB	ICB	10/26/22 17:18				U	mg/L		-0.06	0.06			
WG553689LFB	LFB	10/26/22 17:30	II221013-2	.50045		.506	mg/L	101	85	115			
L76594-01AS	AS	10/26/22 18:29	II221013-2	.50045	U	.485	mg/L	97	85	115			
L76594-01ASD	ASD	10/26/22 18:32	II221013-2	.50045	U	.528	mg/L	106	85	115	8	20	
WG553747													
WG553747ICV	ICV	10/27/22 22:17	II221025-1	2		1.94	mg/L	97	95	105			
WG553747ICB	ICB	10/27/22 22:23				U	mg/L		-0.06	0.06			
WG553747LFB	LFB	10/27/22 22:36	II221013-2	.50045		.513	mg/L	103	85	115			
L76596-02AS	AS	10/27/22 23:58	II221013-2	.50045	U	.558	mg/L	111	85	115			
L76596-02ASD	ASD	10/28/22 0:01	II221013-2	.50045	U	.548	mg/L	110	85	115	2	20	

CRG Mining, LLC

ACZ Project ID: **L76594**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L76594-01	WG553055	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).
	WG552854	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).
			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	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			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.
	WG552748	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).
	WG553390	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
L76594-02	WG553378	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).
	WG553055	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).
	WG552854	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).
			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	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			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.
	WG552748	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).
	WG553390	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.

CRG Mining, LLC

ACZ Project ID: **L76594**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L76594-03	WG553378	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).
	WG553055	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).
	WG552854	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).
			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	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			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.
L76594-04	WG552748	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).
	WG553390	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG553378	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).
	WG553055	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).
	WG552854	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).
			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.
			M353.2 - Automated Cadmium Reduction	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			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.
	WG552748	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).
	WG553390	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.

CRG Mining, LLC

ACZ Project ID: **L76594**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L76594-05	WG553378	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).
	WG553055	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).
	WG552854	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).
			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	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			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.
	WG552748	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).
	WG553390	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M1	Matrix spike recovery was high, 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).
L76594-06	WG553378	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).
	WG553055	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).
	WG552854	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).
			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	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			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.
	WG552748	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).
	WG553390	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M1	Matrix spike recovery was high, 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).

CRG Mining, LLC

ACZ Project ID: **L76594**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L76594-07	WG553378	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).
	WG553055	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).
	WG552854	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).
			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	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			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.
	WG552748	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).
	WG553390	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M1	Matrix spike recovery was high, 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).
L76594-08	WG553378	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).
	WG553055	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).
	WG552854	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).
			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	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			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.
	WG552748	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).
	WG553390	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M1	Matrix spike recovery was high, 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).

CRG Mining, LLC

ACZ Project ID: **L76594**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L76594-09	WG553378	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).
	WG553055	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).
	WG552854	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).
			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	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			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.
	WG552748	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).
	WG553390	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M1	Matrix spike recovery was high, 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).

CRG Mining, LLC

ACZ Project ID: **L76594**

No certification qualifiers associated with this analysis

CRG Mining, LLC

ACZ Project ID: L76594

Date Received: 10/12/2022 11:16

Received By:

Date Printed: 10/12/2022

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?
-----	-----	-----	-----	-----
6881	3.3	<=6.0	15	N/A
4330	4.8	<=6.0	15	N/A

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: L76594

Date Received: 10/12/2022 11:16

Received By:

Date Printed: 10/12/2022

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).



Accredited
Environmental
Testing

2773 Downhill Drive
Steamboat Springs, CO 80487
(970) 879-6590

L76594

CHAIN of CUSTODY

Report to:

Name: CRG MINING LLC
Company: Jake Wilkinson
E-mail: jwilkinson@CRGmining.com

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

Copy of Report to:

Name:
Company:

E-mail:
Telephone:

Invoice to:

Name: SAME
Company:
E-mail:

Address:
Telephone:

Copy of Invoice to:

Name:
Company:
E-mail:

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: Paul Wolfe Sampler's Site Information State COLO. Zip code 81230 Time Zone MT

*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	10.10.22	12:25	GW	5											
				GL2	10.10.22	12:36	GW	1											
				GL3	10.10.22	12:47	GW	1											
				BM1	10.10.22	1:02	GW	1											
				BM2	10.10.22	1:15	GW	1											
				BM3	10.10.22	1:27	GW	1											
				CM1	10.10.22	1:39	GW	1											
				CM2	10.10.22	1:54	GW	1											
				CM3	10.10.22	2:04	GW	1											

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
<u>[Signature]</u>	10/10/22 2:50PM	<u>[Signature]</u>	10/12/22 11:00