

April 08, 2022

Report to:

Kent Applegate
Rio Algom Mining Company
P.O. Box 218
Grants, NM 87020

Bill to:

Accounts Payable
Rio Algom Mining Company
P.O. Box 218
Grants, NM 87020

cc: Michaella Gorospe, jcarroll, Jeremy Scott Collyard, Marcus Powell, Sharon Clouse, Drew Werth, Casandra Woodward, Shubhangi Agarwal, Anupama Subbakrishna, Revathi Ekambaram, Clark Short, Angela Pe

Project ID: 4512060294

ACZ Project ID: L71353

Kent Applegate:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on February 10, 2022. This project has been assigned to ACZ's project number, L71353. 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 L71353. 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 May 08, 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.



Mark McNeal has reviewed
and approved this report.



Rio Algom Mining Company

April 08, 2022

Project ID: 4512060294

ACZ Project ID: L71353

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 9 groundwater samples from Rio Algom Mining Company on February 10, 2022. The samples were received in good condition. Upon receipt, the sample custodian removed the samples from the cooler, inspected the contents, and logged the samples into ACZ's computerized Laboratory Information Management System (LIMS). The samples were assigned ACZ LIMS project number L71353. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Holding Times

Any analyses not performed within EPA recommended holding times have been qualified with an "H" flag.

Sample Analysis

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

1. Qualifier: (H1) Applies to: L71353-09 CYANIDE

Sample analysis performed past hold. Due to instrument troubleshooting and maintenance, sample was analyzed as soon as possible.

2. Qualifier: (N1) Applies to: L71353-07 CYANIDE

Prior analyses performed while troubleshooting the instrument. Reanalysis after resolving the instrument issues is likely to be more representative of the true values and should be favored over historic data from previous runs.

3. Qualifier: (DE) Applies to: L71353-05, L71353-06, L71353-07, L71353-08, L71353-09 RADIUM 228

Sample required dilution. QC lost, analyst had to restart with less sample volume available.

4. Qualifier: (N1)
Applies to: L71353-07, L71353-09 THORIUM 230

PBW (Th-230) fails high by 0.2pCi/L. Due to elevated blank activity, unable to rule out possible contamination in samples where the activity is 0.2pCi/L higher than 2X LLD.

Rio Algom Mining Company

Project ID: 4512060294
Sample ID: 31-65 ALL-02042022

ACZ Sample ID: **L71353-01**
Date Sampled: 02/04/22 13:25
Date Received: 02/10/22
Sample Matrix: Groundwater

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Calcium, dissolved	M200.7 ICP	10	639			mg/L	1	5	02/18/22 23:29	mtc/aeH
Iron, dissolved	M200.7 ICP	10	215			mg/L	0.6	1.5	02/18/22 23:29	mtc/aeH
Magnesium, dissolved	M200.7 ICP	10	1490			mg/L	2	10	02/17/22 18:33	mtc/aeH
Molybdenum, dissolved	M200.8 ICP-MS	10	0.00227	B		mg/L	0.002	0.005	02/18/22 14:11	mfm
Nickel, dissolved	M200.8 ICP-MS	10	0.135			mg/L	0.004	0.01	02/18/22 14:11	mfm
Potassium, dissolved	M200.7 ICP	10	51.7			mg/L	2	10	02/17/22 18:33	mtc/aeH
Selenium, dissolved	SM 3114 B, AA-Hydride	1	0.0051		*	mg/L	0.002	0.005	02/14/22 15:08	mlh
Sodium, dissolved	M200.7 ICP	10	1880			mg/L	2	10	02/21/22 20:27	jlw
Uranium, dissolved	M200.8 ICP-MS	10	0.0911			mg/L	0.001	0.005	02/18/22 14:11	mfm

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	1710			mg/L	2	20	02/15/22 0:00	eep
Carbonate as CaCO3		1	<2	U		mg/L	2	20	02/15/22 0:00	eep
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	02/15/22 0:00	eep
Total Alkalinity		1	1710			mg/L	2	20	02/15/22 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-4.8			%			04/07/22 0:00	calc
Sum of Anions			275			meq/L			04/07/22 0:00	calc
Sum of Cations			250			meq/L			04/07/22 0:00	calc
Chloride	SM4500Cl-E	50	2680			mg/L	25	100	02/15/22 11:15	syw
Conductivity @25C	SM2510B	1	16800			umhos/cm	1	10	02/15/22 20:37	eep
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	20	<0.4	U	*	mg/L	0.4	2	02/19/22 23:14	pjb
Residue, Filterable (TDS) @180C	SM2540C	10	15700		*	mg/L	200	400	02/10/22 15:12	anc
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	250	7890		*	mg/L	250	1250	02/17/22 20:34	mjj1
TDS (calculated)	Calculation		15900			mg/L			04/07/22 0:00	calc
TDS (ratio - measured/calculated)	Calculation		0.99						04/07/22 0:00	calc

Rio Algom Mining Company

Project ID: 4512060294
 Sample ID: 31-61 ALL-02042022

ACZ Sample ID: **L71353-02**
 Date Sampled: 02/04/22 14:27
 Date Received: 02/10/22
 Sample Matrix: Groundwater

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Calcium, dissolved	M200.7 ICP	10	580			mg/L	1	5	02/18/22 23:33	mtc/aeH
Iron, dissolved	M200.7 ICP	10	<0.6	U		mg/L	0.6	1.5	02/18/22 23:33	mtc/aeH
Magnesium, dissolved	M200.7 ICP	10	1300			mg/L	2	10	02/17/22 18:37	mtc/aeH
Molybdenum, dissolved	M200.8 ICP-MS	10	<0.002	U		mg/L	0.002	0.005	02/18/22 14:13	mfm
Nickel, dissolved	M200.8 ICP-MS	10	0.0527			mg/L	0.004	0.01	02/18/22 14:13	mfm
Potassium, dissolved	M200.7 ICP	10	30.3			mg/L	2	10	02/17/22 18:37	mtc/aeH
Selenium, dissolved	SM 3114 B, AA-Hydride	1	0.0055		*	mg/L	0.002	0.005	02/14/22 15:10	mlh
Sodium, dissolved	M200.7 ICP	10	1740			mg/L	2	10	02/21/22 20:30	jlw
Uranium, dissolved	M200.8 ICP-MS	10	0.743			mg/L	0.001	0.005	02/18/22 14:13	mfm

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	1830			mg/L	2	20	02/15/22 0:00	eep
Carbonate as CaCO3		1	<2	U		mg/L	2	20	02/15/22 0:00	eep
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	02/15/22 0:00	eep
Total Alkalinity		1	1830			mg/L	2	20	02/15/22 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-8.2			%			04/07/22 0:00	calc
Sum of Anions			251			meq/L			04/07/22 0:00	calc
Sum of Cations			213			meq/L			04/07/22 0:00	calc
Chloride	SM4500Cl-E	50	2490			mg/L	25	100	02/15/22 11:15	syw
Conductivity @25C	SM2510B	1	15500			umhos/cm	1	10	02/15/22 20:58	eep
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	5	10.2		*	mg/L	0.1	0.5	02/19/22 2:08	pjb
Residue, Filterable (TDS) @180C	SM2540C	5	13900		*	mg/L	100	200	02/10/22 15:14	anc
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	250	6900		*	mg/L	250	1250	02/17/22 20:35	mjj1
TDS (calculated)	Calculation		14200			mg/L			04/07/22 0:00	calc
TDS (ratio - measured/calculated)	Calculation		0.98						04/07/22 0:00	calc

Rio Algom Mining Company

Project ID: 4512060294
Sample ID: 32-59 ALL-02072022

ACZ Sample ID: **L71353-03**
Date Sampled: 02/07/22 10:25
Date Received: 02/10/22
Sample Matrix: Groundwater

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Calcium, dissolved	M200.7 ICP	5	898			mg/L	0.5	2.5	02/18/22 23:36	mtc/aeH
Iron, dissolved	M200.7 ICP	5	<0.3	U		mg/L	0.3	0.75	02/18/22 23:36	mtc/aeH
Magnesium, dissolved	M200.7 ICP	5	325			mg/L	1	5	02/17/22 18:40	mtc/aeH
Molybdenum, dissolved	M200.8 ICP-MS	5	0.00233	B		mg/L	0.001	0.0025	02/18/22 14:15	mfm
Nickel, dissolved	M200.8 ICP-MS	5	0.00518			mg/L	0.002	0.005	02/18/22 14:15	mfm
Potassium, dissolved	M200.7 ICP	5	2.47	B		mg/L	1	5	02/17/22 18:40	mtc/aeH
Selenium, dissolved	SM 3114 B, AA-Hydride	10	0.0602		*	mg/L	0.02	0.05	02/14/22 15:12	mlh
Sodium, dissolved	M200.7 ICP	5	698			mg/L	1	5	02/21/22 20:34	jlw
Uranium, dissolved	M200.8 ICP-MS	5	0.585			mg/L	0.0005	0.0025	02/18/22 14:15	mfm

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	546			mg/L	2	20	02/15/22 0:00	eep
Carbonate as CaCO3		1	<2	U		mg/L	2	20	02/15/22 0:00	eep
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	02/15/22 0:00	eep
Total Alkalinity		1	546			mg/L	2	20	02/15/22 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-1.9			%			04/07/22 0:00	calc
Sum of Anions			106			meq/L			04/07/22 0:00	calc
Sum of Cations			102			meq/L			04/07/22 0:00	calc
Chloride	SM4500Cl-E	20	1690			mg/L	10	40	02/15/22 12:11	syw
Conductivity @25C	SM2510B	1	6820			umhos/cm	1	10	02/15/22 21:10	eep
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	5	9.98		*	mg/L	0.1	0.5	02/19/22 2:09	pjb
Residue, Filterable (TDS) @180C	SM2540C	2	5560		*	mg/L	40	80	02/10/22 15:17	anc
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	125	2290		*	mg/L	125	625	02/17/22 20:37	mjj1
TDS (calculated)	Calculation		6240			mg/L			04/07/22 0:00	calc
TDS (ratio - measured/calculated)	Calculation		0.89						04/07/22 0:00	calc

Rio Algom Mining Company

Project ID: 4512060294
 Sample ID: 5-08 ALL-R-02082022

ACZ Sample ID: **L71353-04**
 Date Sampled: 02/08/22 12:50
 Date Received: 02/10/22
 Sample Matrix: Groundwater

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Calcium, dissolved	M200.7 ICP	2	608			mg/L	0.2	1	02/18/22 23:39	mtc/aeH
Iron, dissolved	M200.7 ICP	2	<0.12	U		mg/L	0.12	0.3	02/18/22 23:39	mtc/aeH
Magnesium, dissolved	M200.7 ICP	2	209			mg/L	0.4	2	02/18/22 23:39	mtc/aeH
Molybdenum, dissolved	M200.8 ICP-MS	2	0.00487			mg/L	0.0004	0.001	02/18/22 14:17	mfm
Nickel, dissolved	M200.8 ICP-MS	2	0.00196	B		mg/L	0.0008	0.002	02/18/22 14:17	mfm
Potassium, dissolved	M200.7 ICP	2	4.29			mg/L	0.4	2	02/18/22 23:39	mtc/aeH
Selenium, dissolved	SM 3114 B, AA-Hydride	1	0.0111		*	mg/L	0.002	0.005	02/14/22 15:19	mlh
Sodium, dissolved	M200.7 ICP	2	312			mg/L	0.4	2	02/21/22 20:37	jlw
Uranium, dissolved	M200.8 ICP-MS	2	0.0272			mg/L	0.0002	0.001	02/18/22 14:17	mfm

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	239			mg/L	2	20	02/17/22 0:00	eep
Carbonate as CaCO3		1	<2	U		mg/L	2	20	02/17/22 0:00	eep
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	02/17/22 0:00	eep
Total Alkalinity		1	239			mg/L	2	20	02/17/22 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-0.8			%			04/07/22 0:00	calc
Sum of Anions			62			meq/L			04/07/22 0:00	calc
Sum of Cations			61			meq/L			04/07/22 0:00	calc
Chloride	SM4500Cl-E	1	97.6			mg/L	0.5	2	02/23/22 9:59	mjj1
Conductivity @25C	SM2510B	1	3960			umhos/cm	1	10	02/15/22 21:55	eep
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	10	26.5		*	mg/L	0.2	1	02/19/22 2:11	pjb
Residue, Filterable (TDS) @180C	SM2540C	2	3860		*	mg/L	40	80	02/10/22 15:20	anc
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	120	2570		*	mg/L	120	600	02/17/22 21:07	mjj1
TDS (calculated)	Calculation		3950			mg/L			04/07/22 0:00	calc
TDS (ratio - measured/calculated)	Calculation		0.98						04/07/22 0:00	calc

Rio Algom Mining Company

Project ID: 4512060294
 Sample ID: 5-03 ALL-R-02082022

ACZ Sample ID: **L71353-05**
 Date Sampled: 02/08/22 12:00
 Date Received: 02/10/22
 Sample Matrix: Groundwater

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Calcium, dissolved	M200.7 ICP	5	622			mg/L	0.5	2.5	02/18/22 23:43	mtc/aeH
Iron, dissolved	M200.7 ICP	5	<0.3	U		mg/L	0.3	0.75	02/18/22 23:43	mtc/aeH
Magnesium, dissolved	M200.7 ICP	5	300			mg/L	1	5	02/17/22 18:46	mtc/aeH
Molybdenum, dissolved	M200.8 ICP-MS	5	<0.001	U		mg/L	0.001	0.0025	02/18/22 14:19	mfm
Nickel, dissolved	M200.8 ICP-MS	5	0.00213	B		mg/L	0.002	0.005	02/18/22 14:19	mfm
Potassium, dissolved	M200.7 ICP	5	4.22	B		mg/L	1	5	02/17/22 18:46	mtc/aeH
Selenium, dissolved	SM 3114 B, AA-Hydride	1	0.0077		*	mg/L	0.002	0.005	02/14/22 15:21	mlh
Sodium, dissolved	M200.7 ICP	5	485			mg/L	1	5	02/21/22 20:40	jlw
Uranium, dissolved	M200.8 ICP-MS	5	0.130			mg/L	0.0005	0.0025	02/18/22 14:19	mfm

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	350			mg/L	2	20	02/17/22 0:00	eep
Carbonate as CaCO3		1	<2	U		mg/L	2	20	02/17/22 0:00	eep
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	02/17/22 0:00	eep
Total Alkalinity		1	350			mg/L	2	20	02/17/22 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-3.8			%			04/07/22 0:00	calc
Sum of Anions			83			meq/L			04/07/22 0:00	calc
Sum of Cations			77			meq/L			04/07/22 0:00	calc
Chloride	SM4500Cl-E	20	858			mg/L	10	40	02/15/22 12:11	syw
Conductivity @25C	SM2510B	1	5800			umhos/cm	1	10	02/15/22 22:04	eep
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	0.952		*	mg/L	0.02	0.1	02/19/22 2:12	pjb
Residue, Filterable (TDS) @180C	SM2540C	5	4990		*	mg/L	100	200	02/10/22 15:22	anc
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	125	2470		*	mg/L	125	625	02/17/22 20:37	mjj1
TDS (calculated)	Calculation		4950			mg/L			04/07/22 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.01						04/07/22 0:00	calc

Rio Algom Mining Company

Project ID: 4512060294
Sample ID: 5-73 ALL-R-02082022

ACZ Sample ID: **L71353-06**
Date Sampled: 02/08/22 09:43
Date Received: 02/10/22
Sample Matrix: Groundwater

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Calcium, dissolved	M200.7 ICP	5	749			mg/L	0.5	2.5	02/18/22 23:46	mtc/aeh
Iron, dissolved	M200.7 ICP	5	<0.3	U		mg/L	0.3	0.75	02/18/22 23:46	mtc/aeh
Magnesium, dissolved	M200.7 ICP	5	485			mg/L	1	5	02/17/22 18:49	mtc/aeh
Molybdenum, dissolved	M200.8 ICP-MS	5	0.00737			mg/L	0.001	0.0025	02/18/22 14:21	mfm
Nickel, dissolved	M200.8 ICP-MS	5	0.0111			mg/L	0.002	0.005	02/18/22 14:21	mfm
Potassium, dissolved	M200.7 ICP	5	2.82	B		mg/L	1	5	02/17/22 18:49	mtc/aeh
Selenium, dissolved	SM 3114 B, AA-Hydride	20	0.182		*	mg/L	0.04	0.1	02/14/22 15:23	mlh
Sodium, dissolved	M200.7 ICP	5	858			mg/L	1	5	02/21/22 20:43	jlw
Uranium, dissolved	M200.8 ICP-MS	5	1.99			mg/L	0.0005	0.0025	02/18/22 14:21	mfm

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	670			mg/L	2	20	02/17/22 0:00	eep
Carbonate as CaCO3		1	<2	U		mg/L	2	20	02/17/22 0:00	eep
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	02/17/22 0:00	eep
Total Alkalinity		1	670			mg/L	2	20	02/17/22 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-3.8			%			04/07/22 0:00	calc
Sum of Anions			124			meq/L			04/07/22 0:00	calc
Sum of Cations			115			meq/L			04/07/22 0:00	calc
Chloride	SM4500Cl-E	20	1800		*	mg/L	10	40	02/15/22 12:11	syw
Conductivity @25C	SM2510B	1	8780			umhos/cm	1	10	02/15/22 22:17	eep
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	3	5.04		*	mg/L	0.06	0.3	02/19/22 2:13	pjb
Residue, Filterable (TDS) @180C	SM2540C	2	6900		*	mg/L	40	80	02/10/22 15:25	anc
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	125	2860		*	mg/L	125	625	02/17/22 20:35	mjj1
TDS (calculated)	Calculation		7160			mg/L			04/07/22 0:00	calc
TDS (ratio - measured/calculated)	Calculation		0.96						04/07/22 0:00	calc

Rio Algom Mining Company

Project ID: 4512060294
 Sample ID: 31-03 KD-02082022

ACZ Sample ID: **L71353-07**
 Date Sampled: 02/08/22 16:50
 Date Received: 02/10/22
 Sample Matrix: Groundwater

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	5	<0.25	U		mg/L	0.25	1.25	02/17/22 18:52	ntc/aeH
Antimony, dissolved	M200.8 ICP-MS	5	<0.002	U		mg/L	0.002	0.01	02/18/22 14:26	mfm
Arsenic, dissolved	M200.8 ICP-MS	5	0.00572			mg/L	0.001	0.005	02/18/22 14:26	mfm
Barium, dissolved	M200.7 ICP	5	<0.035	U		mg/L	0.035	0.175	02/17/22 18:52	ntc/aeH
Beryllium, dissolved	M200.8 ICP-MS	5	<0.0004	U		mg/L	0.0004	0.00125	02/22/22 18:22	mfm
Boron, dissolved	M200.7 ICP	5	0.194	B	*	mg/L	0.15	0.5	02/17/22 18:52	ntc/aeH
Cadmium, dissolved	M200.8 ICP-MS	5	0.000258	B		mg/L	0.00025	0.00125	02/18/22 14:26	mfm
Calcium, dissolved	M200.7 ICP	5	752			mg/L	0.5	2.5	02/18/22 23:49	ntc/aeH
Chromium, dissolved	M200.8 ICP-MS	5	<0.0025	U		mg/L	0.0025	0.01	02/18/22 14:26	mfm
Cobalt, dissolved	M200.7 ICP	5	<0.1	U		mg/L	0.1	0.25	02/17/22 18:52	ntc/aeH
Copper, dissolved	M200.7 ICP	5	<0.05	U		mg/L	0.05	0.25	02/17/22 18:52	ntc/aeH
Iron, dissolved	M200.7 ICP	5	0.871			mg/L	0.3	0.75	02/18/22 23:49	ntc/aeH
Lead, dissolved	M200.8 ICP-MS	5	<0.0005	U		mg/L	0.0005	0.0025	02/18/22 14:26	mfm
Magnesium, dissolved	M200.7 ICP	5	383			mg/L	1	5	02/17/22 18:52	ntc/aeH
Manganese, dissolved	M200.7 ICP	5	7.17			mg/L	0.05	0.25	02/18/22 23:49	ntc/aeH
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	02/15/22 15:05	mlh
Molybdenum, dissolved	M200.8 ICP-MS	5	1.29			mg/L	0.001	0.0025	02/18/22 14:26	mfm
Nickel, dissolved	M200.8 ICP-MS	5	0.00536			mg/L	0.002	0.005	02/18/22 14:26	mfm
Potassium, dissolved	M200.7 ICP	5	16.1			mg/L	1	5	02/17/22 18:52	ntc/aeH
Selenium, dissolved	SM 3114 B, AA-Hydride	1	<0.002	U	*	mg/L	0.002	0.005	02/14/22 15:29	mlh
Selenium, dissolved	M200.8 ICP-MS	5	<0.0005	U		mg/L	0.0005	0.00125	02/22/22 18:22	mfm
Silver, dissolved	M200.7 ICP	5	0.296			mg/L	0.05	0.125	02/18/22 23:49	ntc/aeH
Sodium, dissolved	M200.7 ICP	5	642			mg/L	1	5	02/21/22 20:47	jlw
Thallium, dissolved	M200.8 ICP-MS	5	<0.0005	U		mg/L	0.0005	0.0025	02/18/22 14:26	mfm
Uranium, dissolved	M200.8 ICP-MS	5	0.0128			mg/L	0.0005	0.0025	02/18/22 14:26	mfm
Zinc, dissolved	M200.7 ICP	5	<0.1	U		mg/L	0.1	0.25	02/17/22 18:52	ntc/aeH

Rio Algom Mining Company

Project ID: 4512060294
 Sample ID: 31-03 KD-02082022

ACZ Sample ID: **L71353-07**
 Date Sampled: 02/08/22 16:50
 Date Received: 02/10/22
 Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	275			mg/L	2	20	02/17/22 0:00	eep
Carbonate as CaCO3		1	<2	U		mg/L	2	20	02/17/22 0:00	eep
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	02/17/22 0:00	eep
Total Alkalinity		1	275			mg/L	2	20	02/17/22 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			0.5			%			04/07/22 0:00	calc
Sum of Anions			97			meq/L			04/07/22 0:00	calc
Sum of Cations			98			meq/L			04/07/22 0:00	calc
Chloride	M300.0 - Ion Chromatography	50	1540			mg/L	20	100	02/20/22 4:37	md
Cyanide, Total	D7511-09	1	<0.003	UH	*	mg/L	0.003	0.01	03/04/22 13:56	md
Fluoride	M300.0 - Ion Chromatography	50	<2.5	U	*	mg/L	2.5	12.5	02/20/22 4:37	md
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	<0.02	U	*	mg/L	0.02	0.1	02/19/22 1:45	pjb
Residue, Filterable (TDS) @180C	SM2540C	2	5900		*	mg/L	40	80	02/10/22 15:27	anc
Sulfate	M300.0 - Ion Chromatography	50	2320			mg/L	20	100	03/03/22 21:55	md
TDS (calculated)	Calculation		5830			mg/L			04/07/22 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.01						04/07/22 0:00	calc

Rio Algom Mining Company

Project ID: 4512060294
 Sample ID: DUP-03-02082022

ACZ Sample ID: **L71353-08**
 Date Sampled: 02/08/22 00:00
 Date Received: 02/10/22
 Sample Matrix: Groundwater

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Calcium, dissolved	M200.7 ICP	5	625			mg/L	0.5	2.5	02/18/22 23:52	mtc/aeH
Iron, dissolved	M200.7 ICP	5	<0.3	U		mg/L	0.3	0.75	02/18/22 23:52	mtc/aeH
Magnesium, dissolved	M200.7 ICP	5	302			mg/L	1	5	02/17/22 18:55	mtc/aeH
Molybdenum, dissolved	M200.8 ICP-MS	5	0.00130	B		mg/L	0.001	0.0025	02/18/22 14:32	mfm
Nickel, dissolved	M200.8 ICP-MS	5	0.00240	B		mg/L	0.002	0.005	02/18/22 14:32	mfm
Potassium, dissolved	M200.7 ICP	5	4.15	B		mg/L	1	5	02/17/22 18:55	mtc/aeH
Selenium, dissolved	SM 3114 B, AA-Hydride	1	0.0071		*	mg/L	0.002	0.005	02/14/22 15:31	mlh
Sodium, dissolved	M200.7 ICP	5	481			mg/L	1	5	02/21/22 20:50	jlw
Uranium, dissolved	M200.8 ICP-MS	5	0.126			mg/L	0.0005	0.0025	02/22/22 18:32	mfm

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	348			mg/L	2	20	02/17/22 0:00	eep
Carbonate as CaCO3		1	<2	U		mg/L	2	20	02/17/22 0:00	eep
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	02/17/22 0:00	eep
Total Alkalinity		1	348			mg/L	2	20	02/17/22 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-4.9			%			04/07/22 0:00	calc
Sum of Anions			85			meq/L			04/07/22 0:00	calc
Sum of Cations			77			meq/L			04/07/22 0:00	calc
Chloride	SM4500Cl-E	20	848		*	mg/L	10	40	02/15/22 12:12	syw
Conductivity @25C	SM2510B	1	5790			umhos/cm	1	10	02/15/22 22:35	eep
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	0.934		*	mg/L	0.02	0.1	02/19/22 1:46	pjb
Residue, Filterable (TDS) @180C	SM2540C	2	5000		*	mg/L	40	80	02/10/22 15:30	anc
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	125	2600		*	mg/L	125	625	02/17/22 20:37	mjj1
TDS (calculated)	Calculation		5070			mg/L			04/07/22 0:00	calc
TDS (ratio - measured/calculated)	Calculation		0.99						04/07/22 0:00	calc

Rio Algom Mining Company

Project ID: 4512060294
 Sample ID: DUP-05-02082022

ACZ Sample ID: **L71353-09**
 Date Sampled: 02/08/22 00:00
 Date Received: 02/10/22
 Sample Matrix: Groundwater

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	5	<0.25	U		mg/L	0.25	1.25	02/22/22 16:13	aeh
Antimony, dissolved	M200.8 ICP-MS	5	<0.002	U		mg/L	0.002	0.01	02/22/22 18:34	mfm
Arsenic, dissolved	M200.8 ICP-MS	5	0.00548			mg/L	0.001	0.005	02/22/22 18:34	mfm
Barium, dissolved	M200.7 ICP	5	0.0420	B		mg/L	0.035	0.175	02/22/22 16:13	aeh
Beryllium, dissolved	M200.8 ICP-MS	5	<0.0004	U		mg/L	0.0004	0.00125	02/22/22 18:34	mfm
Boron, dissolved	M200.7 ICP	5	<0.15	U		mg/L	0.15	0.5	02/22/22 16:13	aeh
Cadmium, dissolved	M200.8 ICP-MS	5	<0.00025	U		mg/L	0.00025	0.00125	02/22/22 18:34	mfm
Calcium, dissolved	M200.7 ICP	5	749			mg/L	0.5	2.5	02/19/22 0:02	ntc/aeh
Chromium, dissolved	M200.8 ICP-MS	5	<0.0025	U		mg/L	0.0025	0.01	02/22/22 18:34	mfm
Cobalt, dissolved	M200.7 ICP	5	<0.1	U		mg/L	0.1	0.25	02/22/22 16:13	aeh
Copper, dissolved	M200.7 ICP	5	<0.05	U		mg/L	0.05	0.25	02/22/22 16:13	aeh
Iron, dissolved	M200.7 ICP	5	0.877			mg/L	0.3	0.75	02/19/22 0:02	ntc/aeh
Lead, dissolved	M200.8 ICP-MS	5	<0.0005	U		mg/L	0.0005	0.0025	02/22/22 18:34	mfm
Magnesium, dissolved	M200.7 ICP	5	380			mg/L	1	5	02/17/22 19:04	ntc/aeh
Manganese, dissolved	M200.7 ICP	5	7.07			mg/L	0.05	0.25	02/22/22 16:13	aeh
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	02/24/22 11:07	mlh
Molybdenum, dissolved	M200.8 ICP-MS	5	1.34			mg/L	0.001	0.0025	02/18/22 14:34	mfm
Nickel, dissolved	M200.8 ICP-MS	5	0.00576			mg/L	0.002	0.005	02/18/22 14:34	mfm
Potassium, dissolved	M200.7 ICP	5	16.1			mg/L	1	5	02/17/22 19:04	ntc/aeh
Selenium, dissolved	SM 3114 B, AA-Hydride	1	<0.002	U	*	mg/L	0.002	0.005	02/14/22 15:33	mlh
Selenium, dissolved	M200.8 ICP-MS	5	<0.0005	U		mg/L	0.0005	0.00125	02/22/22 18:34	mfm
Silver, dissolved	M200.7 ICP	5	<0.05	U		mg/L	0.05	0.125	02/22/22 16:13	aeh
Sodium, dissolved	M200.7 ICP	5	649			mg/L	1	5	02/21/22 20:59	jlw
Thallium, dissolved	M200.8 ICP-MS	5	<0.0005	U		mg/L	0.0005	0.0025	02/22/22 18:34	mfm
Uranium, dissolved	M200.8 ICP-MS	5	0.0113			mg/L	0.0005	0.0025	02/22/22 18:34	mfm
Zinc, dissolved	M200.7 ICP	5	<0.1	U		mg/L	0.1	0.25	02/22/22 16:13	aeh

Rio Algom Mining Company

Project ID: 4512060294
 Sample ID: DUP-05-02082022

ACZ Sample ID: **L71353-09**
 Date Sampled: 02/08/22 00:00
 Date Received: 02/10/22
 Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	275			mg/L	2	20	02/17/22 0:00	eep
Carbonate as CaCO3		1	<2	U		mg/L	2	20	02/17/22 0:00	eep
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	02/17/22 0:00	eep
Total Alkalinity		1	275			mg/L	2	20	02/17/22 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-34.7			%			04/07/22 0:00	calc
Sum of Anions			202			meq/L			04/07/22 0:00	calc
Sum of Cations			98			meq/L			04/07/22 0:00	calc
Chloride	SM4500Cl-E	20	1590		*	mg/L	10	40	02/15/22 10:48	syw
Chloride	M300.0 - Ion Chromatography	100	1560		*	mg/L	40	200	02/24/22 19:18	md
Cyanide, Total	D7511-09	1	<0.003	UH	*	mg/L	0.003	0.01	03/04/22 13:58	md
Fluoride	M300.0 - Ion Chromatography	50	<2.5	U	*	mg/L	2.5	12.5	02/25/22 20:50	md
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	<0.02	U		mg/L	0.02	0.1	02/19/22 1:47	pjb
Residue, Filterable (TDS) @180C	SM2540C	2	5960		*	mg/L	40	80	02/10/22 15:33	anc
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	125	2670		*	mg/L	125	625	02/17/22 20:37	mjj1
Sulfate	M300.0 - Ion Chromatography	100	2480		*	mg/L	40	200	02/24/22 19:18	md
TDS (calculated)	Calculation		10300			mg/L			04/07/22 0:00	calc
TDS (ratio - measured/calculated)	Calculation		0.58						04/07/22 0:00	calc

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>

QUIVIRA

ACZ Project ID: **L71353**

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
WG536739													
WG536739PBW1	PBW	02/15/22 17:08				6.5	mg/L		-20	20			
WG536739LCSW3	LCSW	02/15/22 17:27	WC220202-3	820.0001		824.5	mg/L	101	90	110			
L71353-03DUP	DUP	02/15/22 21:20			546	521.7	mg/L				5	20	
WG536739LCSW6	LCSW	02/15/22 21:39	WC220202-3	820.0001		823.3	mg/L	100	90	110			
WG536739PBW2	PBW	02/15/22 21:46				4.2	mg/L		-20	20			
WG536739LCSW12	LCSW	02/16/22 5:17	WC220202-3	820.0001		837.3	mg/L	102	90	110			
WG536892													
WG536892PBW1	PBW	02/17/22 16:14				15.7	mg/L		-20	20			
WG536892LCSW3	LCSW	02/17/22 16:31	WC220202-3	820.0001		806.8	mg/L	98	90	110			
WG536892LCSW6	LCSW	02/17/22 19:07	WC220202-3	820.0001		811.1	mg/L	99	90	110			
WG536892PBW2	PBW	02/17/22 19:13				6.5	mg/L		-20	20			
WG536892LCSW9	LCSW	02/17/22 21:38	WC220202-3	820.0001		828.7	mg/L	101	90	110			
WG536892PBW3	PBW	02/17/22 21:44				6.3	mg/L		-20	20			
L71354-01DUP	DUP	02/17/22 23:16			489	507.8	mg/L				4	20	
WG536892LCSW12	LCSW	02/18/22 1:32	WC220202-3	820.0001		831.1	mg/L	101	90	110			
WG536892PBW4	PBW	02/18/22 1:38				6.8	mg/L		-20	20			
WG536892LCSW15	LCSW	02/18/22 5:21	WC220202-3	820.0001		840.3	mg/L	102	90	110			

Aluminum, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG536895													
WG536895ICV	ICV	02/17/22 17:32	II220215-3	2		1.961	mg/L	98	95	105			
WG536895ICB	ICB	02/17/22 17:38				U	mg/L		-0.15	0.15			
WG536895LFB	LFB	02/17/22 17:51	II220215-2	1.0008		1.026	mg/L	103	85	115			
L71243-02AS	AS	02/17/22 18:00	II220215-2	1.0008	U	1.027	mg/L	103	85	115			
L71243-02ASD	ASD	02/17/22 18:03	II220215-2	1.0008	U	1.027	mg/L	103	85	115	0	20	
L71355-02AS	AS	02/17/22 19:13	II220215-2	1.0008	U	1.042	mg/L	104	85	115			
L71355-02ASD	ASD	02/17/22 19:16	II220215-2	1.0008	U	1.034	mg/L	103	85	115	1	20	
WG537165													
WG537165ICV	ICV	02/22/22 15:15	II220215-3	2		1.987	mg/L	99	95	105			
WG537165ICB	ICB	02/22/22 15:21				U	mg/L		-0.15	0.15			
WG537165LFB	LFB	02/22/22 15:33	II220215-2	1.0008		1.006	mg/L	101	85	115			
L71349-01AS	AS	02/22/22 15:52	II220215-2	5.004	U	5.05	mg/L	101	85	115			
L71349-01ASD	ASD	02/22/22 15:55	II220215-2	5.004	U	5.13	mg/L	103	85	115	2	20	

QUIVIRA

ACZ Project ID: **L71353**

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.

Antimony, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG536969													
WG536969ICV	ICV	02/18/22 13:43	MS220125-1	.0201		.02013	mg/L	100	90	110			
WG536969ICB	ICB	02/18/22 13:45				.00069	mg/L		-0.00088	0.00088			
WG536969LFB	LFB	02/18/22 13:46	MS220126-3	.01		.00955	mg/L	96	85	115			
L66183-38AS	AS	02/18/22 13:56	MS220126-3	.01	U	.00829	mg/L	83	70	130			
L66183-38ASD	ASD	02/18/22 13:58	MS220126-3	.01	U	.00837	mg/L	84	70	130	1	20	
L71353-06AS	AS	02/18/22 14:22	MS220126-3	.05	U	.04785	mg/L	96	70	130			
L71353-06ASD	ASD	02/18/22 14:24	MS220126-3	.05	U	.04883	mg/L	98	70	130	2	20	
WG537194													
WG537194ICV	ICV	02/22/22 18:02	MS220125-1	.0201		.02117	mg/L	105	90	110			
WG537194ICB	ICB	02/22/22 18:04				U	mg/L		-0.00088	0.00088			
WG537194LFB	LFB	02/22/22 18:06	MS220126-3	.01		.00877	mg/L	88	85	115			
L71353-07AS	AS	02/22/22 18:28	MS220126-3	.05	U	.04352	mg/L	87	70	130			
L71353-07ASD	ASD	02/22/22 18:30	MS220126-3	.05	U	.04471	mg/L	89	70	130	3	20	
L71393-02AS	AS	02/22/22 18:45	MS220126-3	.01	U	.00833	mg/L	83	70	130			
L71393-02ASD	ASD	02/22/22 18:50	MS220126-3	.01	U	.00833	mg/L	83	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
WG536969													
WG536969ICV	ICV	02/18/22 13:43	MS220125-1	.05		.0491	mg/L	98	90	110			
WG536969ICB	ICB	02/18/22 13:45				U	mg/L		-0.00044	0.00044			
WG536969LFB	LFB	02/18/22 13:46	MS220126-3	.05005		.05172	mg/L	103	85	115			
L66183-38AS	AS	02/18/22 13:56	MS220126-3	.05005	.00031	.05222	mg/L	104	70	130			
L66183-38ASD	ASD	02/18/22 13:58	MS220126-3	.05005	.00031	.05074	mg/L	101	70	130	3	20	
L71353-06AS	AS	02/18/22 14:22	MS220126-3	.25025	U	.24242	mg/L	97	70	130			
L71353-06ASD	ASD	02/18/22 14:24	MS220126-3	.25025	U	.23696	mg/L	95	70	130	2	20	
WG537194													
WG537194ICV	ICV	02/22/22 18:02	MS220125-1	.05		.05257	mg/L	105	90	110			
WG537194ICB	ICB	02/22/22 18:04				U	mg/L		-0.00044	0.00044			
WG537194LFB	LFB	02/22/22 18:06	MS220126-3	.05005		.05026	mg/L	100	85	115			
L71353-07AS	AS	02/22/22 18:28	MS220126-3	.25025	.00527	.2394	mg/L	94	70	130			
L71353-07ASD	ASD	02/22/22 18:30	MS220126-3	.25025	.00527	.24463	mg/L	96	70	130	2	20	
L71393-02AS	AS	02/22/22 18:45	MS220126-3	.05005	.00075	.05478	mg/L	108	70	130			
L71393-02ASD	ASD	02/22/22 18:50	MS220126-3	.05005	.00075	.05064	mg/L	100	70	130	8	20	

QUIVIRA

ACZ Project ID: **L71353**

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
WG536895													
WG536895ICV	ICV	02/17/22 17:32	II220215-3	2		1.985	mg/L	99	95	105			
WG536895ICB	ICB	02/17/22 17:38				U	mg/L		-0.021	0.021			
WG536895LFB	LFB	02/17/22 17:51	II220215-2	.5		.5039	mg/L	101	85	115			
L71243-02AS	AS	02/17/22 18:00	II220215-2	.5	.159	.6556	mg/L	99	85	115			
L71243-02ASD	ASD	02/17/22 18:03	II220215-2	.5	.159	.6529	mg/L	99	85	115	0	20	
L71355-02AS	AS	02/17/22 19:13	II220215-2	.5	U	.5035	mg/L	101	85	115			
L71355-02ASD	ASD	02/17/22 19:16	II220215-2	.5	U	.4994	mg/L	100	85	115	1	20	
WG537165													
WG537165ICV	ICV	02/22/22 15:15	II220215-3	2		1.9942	mg/L	100	95	105			
WG537165ICB	ICB	02/22/22 15:21				U	mg/L		-0.021	0.021			
WG537165LFB	LFB	02/22/22 15:33	II220215-2	.5		.4946	mg/L	99	85	115			
L71349-01AS	AS	02/22/22 15:52	II220215-2	2.5	U	2.506	mg/L	100	85	115			
L71349-01ASD	ASD	02/22/22 15:55	II220215-2	2.5	U	2.5155	mg/L	101	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
WG537194													
WG537194ICV	ICV	02/22/22 18:02	MS220125-1	.05		.053104	mg/L	106	90	110			
WG537194ICB	ICB	02/22/22 18:04				U	mg/L		-0.000176	0.000176			
WG537194LFB	LFB	02/22/22 18:06	MS220126-3	.05005		.049524	mg/L	99	85	115			
L71353-07AS	AS	02/22/22 18:28	MS220126-3	.25025	U	.233402	mg/L	93	70	130			
L71353-07ASD	ASD	02/22/22 18:30	MS220126-3	.25025	U	.24195	mg/L	97	70	130	4	20	
L71393-02AS	AS	02/22/22 18:45	MS220126-3	.05005	.00106	.050547	mg/L	99	70	130			
L71393-02ASD	ASD	02/22/22 18:50	MS220126-3	.05005	.00106	.046256	mg/L	90	70	130	9	20	

Boron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG536895													
WG536895ICV	ICV	02/17/22 17:32	II220215-3	2		2.035	mg/L	102	95	105			
WG536895ICB	ICB	02/17/22 17:38				U	mg/L		-0.09	0.09			
WG536895LFB	LFB	02/17/22 17:51	II220215-2	.5005		.542	mg/L	108	85	115			
L71243-02AS	AS	02/17/22 18:00	II220215-2	.5005	U	.564	mg/L	113	85	115			
L71243-02ASD	ASD	02/17/22 18:03	II220215-2	.5005	U	.564	mg/L	113	85	115	0	20	
L71355-02AS	AS	02/17/22 19:13	II220215-2	.5005	U	.587	mg/L	117	85	115			M1
L71355-02ASD	ASD	02/17/22 19:16	II220215-2	.5005	U	.58	mg/L	116	85	115	1	20	M1
WG537165													
WG537165ICV	ICV	02/22/22 15:15	II220215-3	2		2.012	mg/L	101	95	105			
WG537165ICB	ICB	02/22/22 15:21				U	mg/L		-0.09	0.09			
WG537165LFB	LFB	02/22/22 15:33	II220215-2	.5005		.513	mg/L	102	85	115			
L71349-01AS	AS	02/22/22 15:52	II220215-2	2.5025	.328	2.86	mg/L	101	85	115			
L71349-01ASD	ASD	02/22/22 15:55	II220215-2	2.5025	.328	2.877	mg/L	102	85	115	1	20	

QUIVIRA

ACZ Project ID: **L71353**

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

Cadmium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG536969													
WG536969ICV	ICV	02/18/22 13:43	MS220125-1	.05		.051384	mg/L	103	90	110			
WG536969ICB	ICB	02/18/22 13:45				.000053	mg/L		-0.00011	0.00011			
WG536969LFB	LFB	02/18/22 13:46	MS220126-3	.05005		.051445	mg/L	103	85	115			
L66183-38AS	AS	02/18/22 13:56	MS220126-3	.05005	U	.05176	mg/L	103	70	130			
L66183-38ASD	ASD	02/18/22 13:58	MS220126-3	.05005	U	.050976	mg/L	102	70	130	2	20	
L71353-06AS	AS	02/18/22 14:22	MS220126-3	.25025	U	.250499	mg/L	100	70	130			
L71353-06ASD	ASD	02/18/22 14:24	MS220126-3	.25025	U	.244513	mg/L	98	70	130	2	20	
WG537194													
WG537194ICV	ICV	02/22/22 18:02	MS220125-1	.05		.053416	mg/L	107	90	110			
WG537194ICB	ICB	02/22/22 18:04				U	mg/L		-0.00011	0.00011			
WG537194LFB	LFB	02/22/22 18:06	MS220126-3	.05005		.049783	mg/L	99	85	115			
L71353-07AS	AS	02/22/22 18:28	MS220126-3	.25025	U	.232289	mg/L	93	70	130			
L71353-07ASD	ASD	02/22/22 18:30	MS220126-3	.25025	U	.243115	mg/L	97	70	130	5	20	
L71393-02AS	AS	02/22/22 18:45	MS220126-3	.05005	.000892	.052488	mg/L	103	70	130			
L71393-02ASD	ASD	02/22/22 18:50	MS220126-3	.05005	.000892	.048319	mg/L	95	70	130	8	20	

Calcium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG536989													
WG536989ICV	ICV	02/18/22 22:24	II220215-3	100		99.86	mg/L	100	95	105			
WG536989ICB	ICB	02/18/22 22:30				U	mg/L		-0.3	0.3			
WG536989LFB	LFB	02/18/22 22:43	II220215-2	67.99026		66.06	mg/L	97	85	115			
L71243-02AS	AS	02/18/22 22:53	II220215-2	67.99026	77.5	138.7	mg/L	90	85	115			
L71243-02ASD	ASD	02/18/22 22:56	II220215-2	67.99026	77.5	138	mg/L	89	85	115	1	20	
L71353-09AS	AS	02/19/22 0:06	II220215-2	339.9513	749	1097	mg/L	102	85	115			
L71353-09ASD	ASD	02/19/22 0:09	II220215-2	339.9513	749	1074.5	mg/L	96	85	115	2	20	

QUIVIRA

ACZ Project ID: **L71353**

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

Chloride M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG536286													
WG536286ICV	ICV	02/04/22 22:11	WI220207-4	19.96		20.21	mg/L	101	90	110			
WG536286ICB	ICB	02/04/22 22:29				U	mg/L		-0.4	0.4			
WG536963													
WG536963ICV	ICV	02/18/22 1:51	WI220224-3	39.92		39.86	mg/L	100	90	110			
WG536963ICB	ICB	02/18/22 2:09				U	mg/L		-0.4	0.4			
WG536963LFB1	LFB	02/19/22 21:09	WI211112-6	30		29.13	mg/L	97	90	110			
L71352-01DUP	DUP	02/20/22 1:56			799	800.85	mg/L				0	20	
L71352-02AS	AS	02/20/22 2:32	WI211112-6	600	41.8	603.34	mg/L	94	90	110			
WG536963LFB2	LFB	02/20/22 5:49	WI211112-6	30		29.53	mg/L	98	90	110			
WG537321													
WG537321LFB1	LFB	02/24/22 18:06	WI211112-6	30		28.37	mg/L	95	90	110			
L71393-02AS	AS	02/24/22 20:30	WI211112-6	150	7	149.75	mg/L	95	90	110			
WG537321LFB2	LFB	02/25/22 2:46	WI211112-6	30		28.24	mg/L	94	90	110			
L71393-01DUP	DUP	02/25/22 23:49			U	U	mg/L				0	20	RA

Chloride SM4500CI-E

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG536673													
WG536673ICB	ICB	02/15/22 10:08				U	mg/L		-1.5	1.5			
WG536673ICV	ICV	02/15/22 10:08	WI210503-1	54.89		57.96	mg/L	106	90	110			
WG536673LFB1	LFB	02/15/22 10:22	WI210908-11	29.97		32.39	mg/L	108	90	110			
L71242-01AS	AS	02/15/22 10:22	WI210908-11	29.97	20.6	51.92	mg/L	105	90	110			
L71242-02DUP	DUP	02/15/22 10:23			25.5	25.42	mg/L				0	20	
L71353-09AS	AS	02/15/22 10:48	20XCL	30	1590	1561.77	mg/L	-94	90	110			M3
L71354-01DUP	DUP	02/15/22 10:50			950	939.61	mg/L				1	20	
WG536673LFB2	LFB	02/15/22 11:13	WI210908-11	29.97		32.62	mg/L	109	90	110			
WG537202													
WG537202ICB	ICB	02/23/22 9:00				U	mg/L		-1.5	1.5			
WG537202ICV	ICV	02/23/22 9:00	WI210503-1	54.89		57.36	mg/L	104	90	110			
WG537202LFB1	LFB	02/23/22 9:57	WI210908-11	29.97		31.38	mg/L	105	90	110			
L66187-38AS	AS	02/23/22 9:59	WI210908-11	29.97	U	32.33	mg/L	108	90	110			
L71353-04DUP	DUP	02/23/22 9:59			97.6	96.81	mg/L				1	20	
WG537202LFB2	LFB	02/23/22 10:01	WI210908-11	29.97		31.53	mg/L	105	90	110			

QUIVIRA

ACZ Project ID: **L71353**

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.

Chromium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG536969													
WG536969ICV	ICV	02/18/22 13:43	MS220125-1	.05		.05145	mg/L	103	90	110			
WG536969ICB	ICB	02/18/22 13:45				U	mg/L		-0.0011	0.0011			
WG536969LFB	LFB	02/18/22 13:46	MS220126-3	.05		.05197	mg/L	104	85	115			
L66183-38AS	AS	02/18/22 13:56	MS220126-3	.05	U	.04998	mg/L	100	70	130			
L66183-38ASD	ASD	02/18/22 13:58	MS220126-3	.05	U	.04848	mg/L	97	70	130	3	20	
L71353-06AS	AS	02/18/22 14:22	MS220126-3	.25	U	.24008	mg/L	96	70	130			
L71353-06ASD	ASD	02/18/22 14:24	MS220126-3	.25	U	.23568	mg/L	94	70	130	2	20	
WG537194													
WG537194ICV	ICV	02/22/22 18:02	MS220125-1	.05		.05341	mg/L	107	90	110			
WG537194ICB	ICB	02/22/22 18:04				U	mg/L		-0.0011	0.0011			
WG537194LFB	LFB	02/22/22 18:06	MS220126-3	.05		.0492	mg/L	98	85	115			
L71353-07AS	AS	02/22/22 18:28	MS220126-3	.25	U	.2304	mg/L	92	70	130			
L71353-07ASD	ASD	02/22/22 18:30	MS220126-3	.25	U	.23301	mg/L	93	70	130	1	20	
L71393-02AS	AS	02/22/22 18:45	MS220126-3	.05	U	.04913	mg/L	98	70	130			
L71393-02ASD	ASD	02/22/22 18:50	MS220126-3	.05	U	.04469	mg/L	89	70	130	9	20	

Cobalt, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG536895													
WG536895ICV	ICV	02/17/22 17:32	II220215-3	2.01		1.973	mg/L	98	95	105			
WG536895ICB	ICB	02/17/22 17:38				U	mg/L		-0.06	0.06			
WG536895LFB	LFB	02/17/22 17:51	II220215-2	.5005		.492	mg/L	98	85	115			
L71243-02AS	AS	02/17/22 18:00	II220215-2	.5005	U	.498	mg/L	100	85	115			
L71243-02ASD	ASD	02/17/22 18:03	II220215-2	.5005	U	.493	mg/L	99	85	115	1	20	
L71355-02AS	AS	02/17/22 19:13	II220215-2	.5005	.031	.535	mg/L	101	85	115			
L71355-02ASD	ASD	02/17/22 19:16	II220215-2	.5005	.031	.52	mg/L	98	85	115	3	20	
WG537165													
WG537165ICV	ICV	02/22/22 15:15	II220215-3	2.01		1.996	mg/L	99	95	105			
WG537165ICB	ICB	02/22/22 15:21				U	mg/L		-0.06	0.06			
WG537165LFB	LFB	02/22/22 15:33	II220215-2	.5005		.476	mg/L	95	85	115			
L71349-01AS	AS	02/22/22 15:52	II220215-2	2.5025	U	2.331	mg/L	93	85	115			
L71349-01ASD	ASD	02/22/22 15:55	II220215-2	2.5025	U	2.335	mg/L	93	85	115	0	20	

Conductivity @25C

SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG536739													
WG536739LCSW2	LCSW	02/15/22 17:14	PCN65017	1408		1405	umhos/cm	100	90	110			
L71353-03DUP	DUP	02/15/22 21:20			6820	6830	umhos/cm				0	20	
WG536739LCSW5	LCSW	02/15/22 21:26	PCN65017	1408		1396	umhos/cm	99	90	110			
L71354-04DUP	DUP	02/15/22 23:46			6510	6520	umhos/cm				0	20	
WG536739LCSW8	LCSW	02/16/22 1:40	PCN65017	1408		1391	umhos/cm	99	90	110			
WG536739LCSW11	LCSW	02/16/22 5:04	PCN65017	1408		1382	umhos/cm	98	90	110			

QUIVIRA

ACZ Project ID: **L71353**

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
WG536895													
WG536895ICV	ICV	02/17/22 17:32	II220215-3	2		1.993	mg/L	100	95	105			
WG536895ICB	ICB	02/17/22 17:38				U	mg/L		-0.03	0.03			
WG536895LFB	LFB	02/17/22 17:51	II220215-2	.5		.497	mg/L	99	85	115			
L71243-02AS	AS	02/17/22 18:00	II220215-2	.5	U	.512	mg/L	102	85	115			
L71243-02ASD	ASD	02/17/22 18:03	II220215-2	.5	U	.504	mg/L	101	85	115	2	20	
L71355-02AS	AS	02/17/22 19:13	II220215-2	.5	U	.514	mg/L	103	85	115			
L71355-02ASD	ASD	02/17/22 19:16	II220215-2	.5	U	.508	mg/L	102	85	115	1	20	
WG537165													
WG537165ICV	ICV	02/22/22 15:15	II220215-3	2		2.012	mg/L	101	95	105			
WG537165ICB	ICB	02/22/22 15:21				U	mg/L		-0.03	0.03			
WG537165LFB	LFB	02/22/22 15:33	II220215-2	.5		.495	mg/L	99	85	115			
L71349-01AS	AS	02/22/22 15:52	II220215-2	2.5	U	2.461	mg/L	98	85	115			
L71349-01ASD	ASD	02/22/22 15:55	II220215-2	2.5	U	2.481	mg/L	99	85	115	1	20	

Cyanide, Total

D7511-09

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG537610													
WG537610ICV	ICV	03/04/22 12:50	WI220218-7	.3003		.3248	mg/L	108	90	110			
WG537610ICB	ICB	03/04/22 12:52				U	mg/L		-0.003	0.003			
WG537610LFB	LFB	03/04/22 12:58	WI220218-5	.1		.1098	mg/L	110	84	116			
L71350-01AS	AS	03/04/22 13:32	WI220218-5	.1	U	.0973	mg/L	97	84	116			
L71350-01ASD	ASD	03/04/22 13:34	WI220218-5	.1	U	.1003	mg/L	100	84	116	3	20	

Fluoride

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG536286													
WG536286ICV	ICV	02/04/22 22:11	WI220207-4	4.016		4.05	mg/L	101	90	110			
WG536286ICB	ICB	02/04/22 22:29				U	mg/L		-0.05	0.05			
WG536963													
WG536963ICV	ICV	02/18/22 1:51	WI220224-3	4.016		4.296	mg/L	107	90	110			
WG536963ICB	ICB	02/18/22 2:09				U	mg/L		-0.05	0.05			
WG536963LFB1	LFB	02/19/22 21:09	WI211112-6	1.5		1.46	mg/L	97	90	110			
L71352-01DUP	DUP	02/20/22 1:56			U	U	mg/L				0	20	RA
L71352-02AS	AS	02/20/22 2:32	WI211112-6	30	U	29.103	mg/L	97	90	110			
WG536963LFB2	LFB	02/20/22 5:49	WI211112-6	1.5		1.486	mg/L	99	90	110			
WG537187													
WG537187LFB	LFB	02/24/22 0:39	WI211112-6	1.5		1.497	mg/L	100	90	110			
L71281-01DUP	DUP	02/24/22 1:14			U	U	mg/L				0	20	RA
L71353-09AS	AS	02/25/22 21:08	WI211112-6	75	U	71.757	mg/L	96	90	110			

QUIVIRA

ACZ Project ID: **L71353**

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

Iron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG536989													
WG536989ICV	ICV	02/18/22 22:24	II220215-3	2		1.971	mg/L	99	95	105			
WG536989ICB	ICB	02/18/22 22:30				U	mg/L		-0.18	0.18			
WG536989LFB	LFB	02/18/22 22:43	II220215-2	1.0001		1.059	mg/L	106	85	115			
L71243-02AS	AS	02/18/22 22:53	II220215-2	1.0001	U	1.048	mg/L	105	85	115			
L71243-02ASD	ASD	02/18/22 22:56	II220215-2	1.0001	U	1.035	mg/L	103	85	115	1	20	
L71353-09AS	AS	02/19/22 0:06	II220215-2	5.0005	.877	6.115	mg/L	105	85	115			
L71353-09ASD	ASD	02/19/22 0:09	II220215-2	5.0005	.877	6.01	mg/L	103	85	115	2	20	

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG536969													
WG536969ICV	ICV	02/18/22 13:43	MS220125-1	.05		.05232	mg/L	105	90	110			
WG536969ICB	ICB	02/18/22 13:45				.00013	mg/L		-0.00022	0.00022			
WG536969LFB	LFB	02/18/22 13:46	MS220126-3	.05005		.05393	mg/L	108	85	115			
L66183-38AS	AS	02/18/22 13:56	MS220126-3	.05005	U	.05195	mg/L	104	70	130			
L66183-38ASD	ASD	02/18/22 13:58	MS220126-3	.05005	U	.05156	mg/L	103	70	130	1	20	
L71353-06AS	AS	02/18/22 14:22	MS220126-3	.25025	U	.27978	mg/L	112	70	130			
L71353-06ASD	ASD	02/18/22 14:24	MS220126-3	.25025	U	.27526	mg/L	110	70	130	2	20	
WG537194													
WG537194ICV	ICV	02/22/22 18:02	MS220125-1	.05		.05483	mg/L	110	90	110			
WG537194ICB	ICB	02/22/22 18:04				U	mg/L		-0.00022	0.00022			
WG537194LFB	LFB	02/22/22 18:06	MS220126-3	.05005		.05172	mg/L	103	85	115			
L71353-07AS	AS	02/22/22 18:28	MS220126-3	.25025	U	.25988	mg/L	104	70	130			
L71353-07ASD	ASD	02/22/22 18:30	MS220126-3	.25025	U	.27312	mg/L	109	70	130	5	20	
L71393-02AS	AS	02/22/22 18:45	MS220126-3	.05005	.00019	.05386	mg/L	107	70	130			
L71393-02ASD	ASD	02/22/22 18:50	MS220126-3	.05005	.00019	.05	mg/L	100	70	130	7	20	

Magnesium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG536895													
WG536895ICV	ICV	02/17/22 17:32	II220215-3	100		95.52	mg/L	96	95	105			
WG536895ICB	ICB	02/17/22 17:38				U	mg/L		-0.6	0.6			
WG536895LFB	LFB	02/17/22 17:51	II220215-2	49.99828		48.95	mg/L	98	85	115			
L71243-02AS	AS	02/17/22 18:00	II220215-2	49.99828	22.6	70.91	mg/L	97	85	115			
L71243-02ASD	ASD	02/17/22 18:03	II220215-2	49.99828	22.6	70.53	mg/L	96	85	115	1	20	
L71355-02AS	AS	02/17/22 19:13	II220215-2	49.99828	8.82	58.01	mg/L	98	85	115			
L71355-02ASD	ASD	02/17/22 19:16	II220215-2	49.99828	8.82	57.64	mg/L	98	85	115	1	20	
WG536989													
WG536989ICV	ICV	02/18/22 22:24	II220215-3	100		96.21	mg/L	96	95	105			
WG536989ICB	ICB	02/18/22 22:30				U	mg/L		-0.6	0.6			
WG536989LFB	LFB	02/18/22 22:43	II220215-2	49.99828		50.19	mg/L	100	85	115			
L71243-02AS	AS	02/18/22 22:53	II220215-2	49.99828	23.1	72.02	mg/L	98	85	115			
L71243-02ASD	ASD	02/18/22 22:56	II220215-2	49.99828	23.1	71.71	mg/L	97	85	115	0	20	
L71353-09AS	AS	02/19/22 0:06	II220215-2	249.9914	395	663	mg/L	107	85	115			
L71353-09ASD	ASD	02/19/22 0:09	II220215-2	249.9914	395	647.5	mg/L	101	85	115	2	20	

QUIVIRA

ACZ Project ID: **L71353**

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
WG536989													
WG536989ICV	ICV	02/18/22 22:24	II220215-3	2		1.928	mg/L	96	95	105			
WG536989ICB	ICB	02/18/22 22:30				U	mg/L		-0.03	0.03			
WG536989LFB	LFB	02/18/22 22:43	II220215-2	.499		.504	mg/L	101	85	115			
L71243-02AS	AS	02/18/22 22:53	II220215-2	.499	U	.497	mg/L	100	85	115			
L71243-02ASD	ASD	02/18/22 22:56	II220215-2	.499	U	.498	mg/L	100	85	115	0	20	
L71353-09AS	AS	02/19/22 0:06	II220215-2	2.495	7.13	9.825	mg/L	108	85	115			
L71353-09ASD	ASD	02/19/22 0:09	II220215-2	2.495	7.13	9.64	mg/L	101	85	115	2	20	
WG537165													
WG537165ICV	ICV	02/22/22 15:15	II220215-3	2		1.96	mg/L	98	95	105			
WG537165ICB	ICB	02/22/22 15:21				U	mg/L		-0.03	0.03			
WG537165LFB	LFB	02/22/22 15:33	II220215-2	.499		.498	mg/L	100	85	115			
L71349-01AS	AS	02/22/22 15:52	II220215-2	2.495	1.78	4.247	mg/L	99	85	115			
L71349-01ASD	ASD	02/22/22 15:55	II220215-2	2.495	1.78	4.25	mg/L	99	85	115	0	20	

Mercury, total

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG536681													
WG536681ICV1	ICV	02/15/22 12:10	HG220214-3	.00501		.00514	mg/L	103	90	110			
WG536681ICB	ICB	02/15/22 12:11				U	mg/L		-0.0006	0.0006			
WG536685													
WG536685LRB	LRB	02/15/22 14:52				U	mg/L		-0.00044	0.00044			
WG536685LFB	LFB	02/15/22 14:53	HG220214-6	.002002		.002	mg/L	100	85	115			
L71353-07LFM	LFM	02/15/22 15:05	HG220214-6	.002002	U	.00176	mg/L	88	85	115			
L71353-07LFMD	LFMD	02/15/22 15:06	HG220214-6	.002002	U	.00178	mg/L	89	85	115	1	20	
WG537216													
WG537216ICV	ICV	02/24/22 10:29	HG220214-3	.00501		.0051	mg/L	102	95	105			
WG537216ICB	ICB	02/24/22 10:30				U	mg/L		-0.0002	0.0002			
WG537217													
WG537217LRB	LRB	02/24/22 11:05				U	mg/L		-0.00044	0.00044			
WG537217LFB	LFB	02/24/22 11:06	HG220214-6	.002002		.00206	mg/L	103	85	115			
L71353-09LFM	LFM	02/24/22 11:08	HG220214-6	.002002	U	.00202	mg/L	101	85	115			
L71353-09LFMD	LFMD	02/24/22 11:09	HG220214-6	.002002	U	.00203	mg/L	101	85	115	0	20	

Molybdenum, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG536969													
WG536969ICV	ICV	02/18/22 13:43	MS220125-1	.02		.02045	mg/L	102	90	110			
WG536969ICB	ICB	02/18/22 13:45				U	mg/L		-0.00044	0.00044			
WG536969LFB	LFB	02/18/22 13:46	MS220126-3	.05005		.05278	mg/L	105	85	115			
L66183-38AS	AS	02/18/22 13:56	MS220126-3	.05005	.00053	.05126	mg/L	101	70	130			
L66183-38ASD	ASD	02/18/22 13:58	MS220126-3	.05005	.00053	.05008	mg/L	99	70	130	2	20	
L71353-06AS	AS	02/18/22 14:22	MS220126-3	.25025	.00737	.29059	mg/L	113	70	130			
L71353-06ASD	ASD	02/18/22 14:24	MS220126-3	.25025	.00737	.28511	mg/L	111	70	130	2	20	

QUIVIRA

ACZ Project ID: **L71353**

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

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG536969													
WG536969ICV	ICV	02/18/22 13:43	MS220125-1	.05		.05154	mg/L	103	90	110			
WG536969ICB	ICB	02/18/22 13:45				U	mg/L		-0.00088	0.00088			
WG536969LFB	LFB	02/18/22 13:46	MS220126-3	.05		.05158	mg/L	103	85	115			
L66183-38AS	AS	02/18/22 13:56	MS220126-3	.05	U	.0493	mg/L	99	70	130			
L66183-38ASD	ASD	02/18/22 13:58	MS220126-3	.05	U	.048	mg/L	96	70	130	3	20	
L71353-06AS	AS	02/18/22 14:22	MS220126-3	.25	.0111	.23349	mg/L	89	70	130			
L71353-06ASD	ASD	02/18/22 14:24	MS220126-3	.25	.0111	.22695	mg/L	86	70	130	3	20	

Nitrate/Nitrite as N

M353.2 - H2SO4 preserved

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG537004													
WG537004ICV	ICV	02/18/22 23:15	WI211205-1	2.4161		2.252	mg/L	93	90	110			
WG537004ICB	ICB	02/18/22 23:17				U	mg/L		-0.02	0.02			
WG537008													
WG537008LFB	LFB	02/19/22 1:27	WI211001-5	2		2.001	mg/L	100	90	110			
L71262-01AS	AS	02/19/22 1:29	WI211001-5	2	U	2.129	mg/L	106	90	110			
L71262-02DUP	DUP	02/19/22 1:32			U	U	mg/L				0	20	RA
L71353-09AS	AS	02/19/22 1:49	WI211001-5	2	U	2.014	mg/L	101	90	110			
L71354-01DUP	DUP	02/19/22 2:20			33.3	33.189	mg/L				0	20	
WG537031													
WG537031ICV	ICV	02/19/22 21:31	WI211205-1	2.4161		2.263	mg/L	94	90	110			
WG537031ICB	ICB	02/19/22 21:32				U	mg/L		-0.02	0.02			
WG537033													
WG537033LFB	LFB	02/19/22 22:21	WI211001-5	2		2.117	mg/L	106	90	110			
L71352-02AS	AS	02/19/22 22:43	WI211001-5	2	U	2.175	mg/L	109	90	110			
L71352-03DUP	DUP	02/19/22 23:05			U	U	mg/L				0	20	RA

Potassium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG536895													
WG536895ICV	ICV	02/17/22 17:32	II220215-3	20		19.7	mg/L	99	95	105			
WG536895ICB	ICB	02/17/22 17:38				U	mg/L		-0.6	0.6			
WG536895LFB	LFB	02/17/22 17:51	II220215-2	99.95169		100.1	mg/L	100	85	115			
L71243-02AS	AS	02/17/22 18:00	II220215-2	99.95169	1.87	103.6	mg/L	102	85	115			
L71243-02ASD	ASD	02/17/22 18:03	II220215-2	99.95169	1.87	102.8	mg/L	101	85	115	1	20	
L71355-02AS	AS	02/17/22 19:13	II220215-2	99.95169	1.02	103.1	mg/L	102	85	115			
L71355-02ASD	ASD	02/17/22 19:16	II220215-2	99.95169	1.02	102.2	mg/L	101	85	115	1	20	
WG536989													
WG536989ICV	ICV	02/18/22 22:24	II220215-3	20		19.82	mg/L	99	95	105			
WG536989ICB	ICB	02/18/22 22:30				U	mg/L		-0.6	0.6			
WG536989LFB	LFB	02/18/22 22:43	II220215-2	99.95169		102.7	mg/L	103	85	115			
L71243-02AS	AS	02/18/22 22:53	II220215-2	99.95169	1.76	105.7	mg/L	104	85	115			
L71243-02ASD	ASD	02/18/22 22:56	II220215-2	99.95169	1.76	105.2	mg/L	103	85	115	0	20	
L71353-09AS	AS	02/19/22 0:06	II220215-2	499.75845	16.4	549	mg/L	107	85	115			
L71353-09ASD	ASD	02/19/22 0:09	II220215-2	499.75845	16.4	534	mg/L	104	85	115	3	20	

QUIVIRA

ACZ Project ID: **L71353**

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.

Residue, Filterable (TDS) @180C SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG536516													
WG536516PBW	PBW	02/10/22 15:07				U	mg/L		-20	20			
WG536516LCSW	LCSW	02/10/22 15:09	PCN64730	1000		982	mg/L	98	80	120			
L71355-01DUP	DUP	02/10/22 15:38			142	142	mg/L				0	10	RA

Selenium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG537194													
WG537194ICV	ICV	02/22/22 18:02	MS220125-1	.05		.05335	mg/L	107	90	110			
WG537194ICB	ICB	02/22/22 18:04				U	mg/L		-0.00022	0.00022			
WG537194LFB	LFB	02/22/22 18:06	MS220126-3	.05		.05082	mg/L	102	85	115			
L71353-07AS	AS	02/22/22 18:28	MS220126-3	.25	U	.24367	mg/L	97	70	130			
L71353-07ASD	ASD	02/22/22 18:30	MS220126-3	.25	U	.25474	mg/L	102	70	130	4	20	
L71393-02AS	AS	02/22/22 18:45	MS220126-3	.05	.00011	.05582	mg/L	111	70	130			
L71393-02ASD	ASD	02/22/22 18:50	MS220126-3	.05	.00011	.05112	mg/L	102	70	130	9	20	

Selenium, dissolved SM 3114 B, AA-Hydride

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG536614													
WG536614ICV	ICV	02/14/22 11:41	SE220124-2	.025		.026	mg/L	104	90	110			
WG536614ICB	ICB	02/14/22 11:43				U	mg/L		-0.006	0.006			
WG536615													
WG536615LRB	LRB	02/14/22 15:04				U	mg/L		-0.006	0.006			
WG536615LFB	LFB	02/14/22 15:06	SE220124-4	.0225		.0211	mg/L	94	85	115			
L71353-03LFM	LFM	02/14/22 15:15	SE10XPREP	.2224	.0602	.248	mg/L	84	85	115			MA
L71353-03LFMD	LFMD	02/14/22 15:17	SE10XPREP	.2224	.0602	.2561	mg/L	88	85	115	3	20	

Silver, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG536989													
WG536989ICV	ICV	02/18/22 22:24	II220215-3	1		1	mg/L	100	95	105			
WG536989ICB	ICB	02/18/22 22:30				U	mg/L		-0.03	0.03			
WG536989LFB	LFB	02/18/22 22:43	II220215-2	.5		.501	mg/L	100	85	115			
L71243-02AS	AS	02/18/22 22:53	II220215-2	.5	U	.211	mg/L	42	85	115			M2 ZA
L71243-02ASD	ASD	02/18/22 22:56	II220215-2	.5	U	.209	mg/L	42	85	115	1	20	M2 ZA
L71353-09AS	AS	02/19/22 0:06	II220215-2	2.5	U	2.576	mg/L	103	85	115			
L71353-09ASD	ASD	02/19/22 0:09	II220215-2	2.5	U	2.541	mg/L	102	85	115	1	20	
WG537165													
WG537165ICV	ICV	02/22/22 15:15	II220215-3	1		1.009	mg/L	101	95	105			
WG537165ICB	ICB	02/22/22 15:21				U	mg/L		-0.03	0.03			
WG537165LFB	LFB	02/22/22 15:33	II220215-2	.5		.477	mg/L	95	85	115			
L71349-01AS	AS	02/22/22 15:52	II220215-2	2.5	U	2.124	mg/L	85	85	115			
L71349-01ASD	ASD	02/22/22 15:55	II220215-2	2.5	U	2.247	mg/L	90	85	115	6	20	

QUIVIRA

ACZ Project ID: **L71353**

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

Sodium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG537075													
WG537075ICV	ICV	02/21/22 19:23	II220215-3	100		98.5	mg/L	99	95	105			
WG537075ICB	ICB	02/21/22 19:29				U	mg/L		-0.6	0.6			
WG537075LFB	LFB	02/21/22 19:42	II220215-2	100.0039		99.94	mg/L	100	85	115			
L71243-02AS	AS	02/21/22 19:52	II220215-2	100.0039	37.3	137.1	mg/L	100	85	115			
L71243-02ASD	ASD	02/21/22 19:55	II220215-2	100.0039	37.3	136.3	mg/L	99	85	115	1	20	
L71353-09AS	AS	02/21/22 21:03	II220215-2	500.0195	649	1138	mg/L	98	85	115			
L71353-09ASD	ASD	02/21/22 21:06	II220215-2	500.0195	649	1158	mg/L	102	85	115	2	20	

Sulfate

D516-02/-07/-11 - TURBIDIMETRIC

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG536815													
WG536815ICB	ICB	02/17/22 9:37				U	mg/L		-3	3			
WG536815ICV	ICV	02/17/22 9:37	WI220215-6	20.46		19.5	mg/L	95	90	110			
WG536815LFB	LFB	02/17/22 19:27	WI211230-5	9.95		10.3	mg/L	104	90	110			
L71243-03DUP	DUP	02/17/22 20:34			663	669.4	mg/L				1	20	
L71353-01AS	AS	02/17/22 20:35	SO4TURB25X	100	7890	8115.5	mg/L	226	90	110			M3

Sulfate

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG536286													
WG536286ICV	ICV	02/04/22 22:11	WI220207-4	51.15		48.39	mg/L	95	90	110			
WG536286ICB	ICB	02/04/22 22:29				U	mg/L		-0.4	0.4			
WG537321													
WG537321LFB1	LFB	02/24/22 18:06	WI211112-6	30		27.77	mg/L	93	90	110			
L71393-02AS	AS	02/24/22 20:30	WI211112-6	150	248	388.02	mg/L	93	90	110			
WG537321LFB2	LFB	02/25/22 2:46	WI211112-6	30		27.13	mg/L	90	90	110			
L71393-01DUP	DUP	02/25/22 23:49			U	U	mg/L				0	20	RA
WG537673													
WG537673LFB1	LFB	03/03/22 18:20	WI211112-6	30		29.38	mg/L	98	90	110			
L71285-01DUP	DUP	03/03/22 18:56			51.1	51.05	mg/L				0	20	
L71352-01AS	AS	03/03/22 19:32	WI211112-6	3000	2890	5915.61	mg/L	101	90	110			
WG537673LFB2	LFB	03/04/22 3:00	WI211112-6	30		27.96	mg/L	93	90	110			

QUIVIRA

ACZ Project ID: **L71353**

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.

Thallium, dissolved				M200.8 ICP-MS									
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG536969													
WG536969ICV	ICV	02/18/22 13:43	MS220125-1	.05		.05318	mg/L	106	90	110			
WG536969ICB	ICB	02/18/22 13:45				U	mg/L		-0.00022	0.00022			
WG536969LFB	LFB	02/18/22 13:46	MS220126-3	.05		.05206	mg/L	104	85	115			
L66183-38AS	AS	02/18/22 13:56	MS220126-3	.05	U	.05075	mg/L	102	70	130			
L66183-38ASD	ASD	02/18/22 13:58	MS220126-3	.05	U	.05015	mg/L	100	70	130	1	20	
L71353-06AS	AS	02/18/22 14:22	MS220126-3	.25	U	.27756	mg/L	111	70	130			
L71353-06ASD	ASD	02/18/22 14:24	MS220126-3	.25	U	.2725	mg/L	109	70	130	2	20	
WG537194													
WG537194ICV	ICV	02/22/22 18:02	MS220125-1	.05		.05523	mg/L	110	90	110			
WG537194ICB	ICB	02/22/22 18:04				U	mg/L		-0.00022	0.00022			
WG537194LFB	LFB	02/22/22 18:06	MS220126-3	.05		.05069	mg/L	101	85	115			
L71353-07AS	AS	02/22/22 18:28	MS220126-3	.25	U	.22188	mg/L	89	70	130			
L71353-07ASD	ASD	02/22/22 18:30	MS220126-3	.25	U	.23203	mg/L	93	70	130	4	20	
L71393-02AS	AS	02/22/22 18:45	MS220126-3	.05	U	.04726	mg/L	95	70	130			
L71393-02ASD	ASD	02/22/22 18:50	MS220126-3	.05	U	.04381	mg/L	88	70	130	8	20	

Uranium, dissolved				M200.8 ICP-MS									
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG536969													
WG536969ICV	ICV	02/18/22 13:43	MS220125-1	.05		.05131	mg/L	103	90	110			
WG536969ICB	ICB	02/18/22 13:45				U	mg/L		-0.00022	0.00022			
WG536969LFB	LFB	02/18/22 13:46	MS220126-3	.05		.05229	mg/L	105	85	115			
L66183-38AS	AS	02/18/22 13:56	MS220126-3	.05	U	.04969	mg/L	99	70	130			
L66183-38ASD	ASD	02/18/22 13:58	MS220126-3	.05	U	.04924	mg/L	98	70	130	1	20	
L71353-06AS	AS	02/18/22 14:22	MS220126-3	.25	1.99	2.28628	mg/L	119	70	130			
L71353-06ASD	ASD	02/18/22 14:24	MS220126-3	.25	1.99	2.28373	mg/L	117	70	130	0	20	
WG537194													
WG537194ICV	ICV	02/22/22 18:02	MS220125-1	.05		.05372	mg/L	107	90	110			
WG537194ICB	ICB	02/22/22 18:04				U	mg/L		-0.00022	0.00022			
WG537194LFB	LFB	02/22/22 18:06	MS220126-3	.05		.0499	mg/L	100	85	115			
L71353-07AS	AS	02/22/22 18:28	MS220126-3	.25	.0112	.28655	mg/L	110	70	130			
L71353-07ASD	ASD	02/22/22 18:30	MS220126-3	.25	.0112	.30106	mg/L	116	70	130	5	20	
L71393-02AS	AS	02/22/22 18:45	MS220126-3	.05	.0184	.07283	mg/L	109	70	130			
L71393-02ASD	ASD	02/22/22 18:50	MS220126-3	.05	.0184	.06864	mg/L	100	70	130	6	20	

QUIVIRA

ACZ Project ID: **L71353**

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

Zinc, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG536895													
WG536895ICV	ICV	02/17/22 17:32	II220215-3	2		1.934	mg/L	97	95	105			
WG536895ICB	ICB	02/17/22 17:38				U	mg/L		-0.06	0.06			
WG536895LFB	LFB	02/17/22 17:51	II220215-2	.50045		.518	mg/L	104	85	115			
L71243-02AS	AS	02/17/22 18:00	II220215-2	.50045	U	.531	mg/L	106	85	115			
L71243-02ASD	ASD	02/17/22 18:03	II220215-2	.50045	U	.52	mg/L	104	85	115	2	20	
L71355-02AS	AS	02/17/22 19:13	II220215-2	.50045	.096	.621	mg/L	105	85	115			
L71355-02ASD	ASD	02/17/22 19:16	II220215-2	.50045	.096	.608	mg/L	102	85	115	2	20	
WG537165													
WG537165ICV	ICV	02/22/22 15:15	II220215-3	2		1.988	mg/L	99	95	105			
WG537165ICB	ICB	02/22/22 15:21				U	mg/L		-0.06	0.06			
WG537165LFB	LFB	02/22/22 15:33	II220215-2	.50045		.504	mg/L	101	85	115			
L71349-01AS	AS	02/22/22 15:52	II220215-2	2.50225	U	2.481	mg/L	99	85	115			
L71349-01ASD	ASD	02/22/22 15:55	II220215-2	2.50225	U	2.508	mg/L	100	85	115	1	20	

Rio Algom Mining Company

ACZ Project ID: **L71353**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L71353-01	WG537033	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	DB	Sample required dilution due to low bias result.
			M353.2 - H2SO4 preserved	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).
	WG536516	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).
	WG536615	Selenium, dissolved	SM 3114 B, AA-Hydride	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
WG536815	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.	
L71353-02	WG537008	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	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 - H2SO4 preserved	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).
	WG536516	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).
	WG536615	Selenium, dissolved	SM 3114 B, AA-Hydride	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
WG536815	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.	
L71353-03	WG537008	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	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 - H2SO4 preserved	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).
	WG536516	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).
	WG536615	Selenium, dissolved	SM 3114 B, AA-Hydride	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
WG536815	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.	
L71353-04	WG537008	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	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 - H2SO4 preserved	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).
	WG536516	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).
	WG536615	Selenium, dissolved	SM 3114 B, AA-Hydride	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
WG536815	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.	

Rio Algom Mining Company

ACZ Project ID: **L71353**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L71353-05	WG537008	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	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).
	WG536516	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).
	WG536615	Selenium, dissolved	SM 3114 B, AA-Hydride	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG536815	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.
L71353-06	WG536673	Chloride	SM4500CI-E	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.
	WG537008	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	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).
	WG536516	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).
	WG536615	Selenium, dissolved	SM 3114 B, AA-Hydride	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG536815	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.
L71353-07	WG536895	Boron, dissolved	M200.7 ICP	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG537610	Cyanide, Total	D7511-09	HC	Initial analysis within holding time. Reanalysis was past holding time, which was required due to a QC failure during the initial analysis.
			D7511-09	N1	See Case Narrative.
	WG536963	Fluoride	M300.0 - Ion Chromatography	DC	Sample required dilution. Non-target analyte exceeded calibration range.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG537008	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	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).
	WG536516	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).
	WG536615	Selenium, dissolved	SM 3114 B, AA-Hydride	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.

Rio Algom Mining Company

ACZ Project ID: **L71353**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION	
L71353-08	WG536673	Chloride	SM4500CI-E	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.	
	WG537008	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	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).	
	WG536516	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).	
	WG536615	Selenium, dissolved	SM 3114 B, AA-Hydride	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.	
	WG536815	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.	
L71353-09	WG536673	Chloride	SM4500CI-E	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.	
	WG537321		M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).	
	WG537610	Cyanide, Total	D7511-09	H1	Sample prep or analysis performed past holding time. See case narrative.	
	WG537187	Fluoride		M300.0 - Ion Chromatography	DC	Sample required dilution. Non-target analyte exceeded calibration range.
				M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG536516	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).	
	WG536615	Selenium, dissolved	SM 3114 B, AA-Hydride	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.	
	WG536815	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.	
	WG537321		M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).	

Rio Algom Mining Company

Project ID: 4512060294
 Sample ID: 31-65 ALL-02042022
 Locator:

ACZ Sample ID: **L71353-01**
 Date Sampled: 02/04/22 13:25
 Date Received: 02/10/22
 Sample Matrix: Groundwater

Lead 210, dissolved
 EICHROM, OTW01

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Lead 210, dissolved	03/22/22 13:18		-0.26	5.9	16	pCi/L	*	amk

Polonium 210, dissolved
 HASL Po-01-RC

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Polonium 210, dissolved	02/24/22 8:32		0.0	310	13	pCi/L	*	slc

Radium 226, dissolved
 M903.1

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, dissolved	03/18/22 0:11		0.15	0.14	0.75	pCi/L	*	fdw

Radium 228, dissolved
 M9320

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228, dissolved	03/09/22 17:32		2.3	3.3	8.1	pCi/L	*	ttg

Thorium 230, dissolved
 ESM 4506

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Thorium 230, dissolved	03/17/22 11:00		3.68	4.1	6.7	pCi/L	*	amk

Rio Algom Mining Company

Project ID: 4512060294
 Sample ID: 31-61 ALL-02042022
 Locator:

ACZ Sample ID: **L71353-02**
 Date Sampled: 02/04/22 14:27
 Date Received: 02/10/22
 Sample Matrix: Groundwater

Lead 210, dissolved
 EICHROM, OTW01

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Lead 210, dissolved	04/06/22 9:36		-26	23	67	pCi/L	*	fdw

Polonium 210, dissolved
 HASL Po-01-RC

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Polonium 210, dissolved	02/24/22 8:32		0.184	3.1	3.9	pCi/L	*	slc

Radium 226, dissolved
 M903.1

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, dissolved	03/24/22 0:02		0.24	0.13	0.33	pCi/L	*	fdw

Radium 228, dissolved
 M9320

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228, dissolved	03/09/22 17:32		1.8	0.73	1.7	pCi/L	*	ttg

Thorium 230, dissolved
 ESM 4506

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Thorium 230, dissolved	03/17/22 11:00		2.24	3.5	5.9	pCi/L	*	amk

Rio Algom Mining Company

Project ID: 4512060294
 Sample ID: 32-59 ALL-02072022
 Locator:

ACZ Sample ID: **L71353-03**
 Date Sampled: 02/07/22 10:25
 Date Received: 02/10/22
 Sample Matrix: Groundwater

Lead 210, dissolved
 EICHROM, OTW01

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Lead 210, dissolved	03/22/22 13:18		0.49	1.4	3.7	pCi/L	*	amk

Polonium 210, dissolved
 HASL Po-01-RC

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Polonium 210, dissolved	03/07/22 14:41		0.0	34	4.6	pCi/L	*	slc

Radium 226, dissolved
 M903.1

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, dissolved	03/18/22 0:12		0.08	0.06	0.15	pCi/L	*	fdw

Radium 228, dissolved
 M9320

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228, dissolved	03/09/22 17:32		-0.28	0.75	1.8	pCi/L	*	ttg

Thorium 230, dissolved
 ESM 4506

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Thorium 230, dissolved	03/17/22 11:01		7.97	4.3	6	pCi/L	*	amk

Rio Algom Mining Company

Project ID: 4512060294
 Sample ID: 5-08 ALL-R-02082022
 Locator:

ACZ Sample ID: **L71353-04**
 Date Sampled: 02/08/22 12:50
 Date Received: 02/10/22
 Sample Matrix: Groundwater

Lead 210, dissolved
 EICHROM, OTW01

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Lead 210, dissolved	03/22/22 13:18		1.2	1.5	4	pCi/L	*	amk

Polonium 210, dissolved
 HASL Po-01-RC

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Polonium 210, dissolved	03/07/22 14:41		0.0	40	5.9	pCi/L	*	slc

Radium 226, dissolved
 M903.1

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, dissolved	03/18/22 0:14		0.13	0.06	0.23	pCi/L	*	fdw

Radium 228, dissolved
 M9320

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228, dissolved	03/09/22 17:32		0.4	0.83	2.1	pCi/L	*	ttg

Thorium 230, dissolved
 ESM 4506

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Thorium 230, dissolved	03/17/22 16:12		1.4	0.77	1	pCi/L	*	amk

Rio Algom Mining Company

Project ID: 4512060294
 Sample ID: 5-03 ALL-R-02082022
 Locator:

ACZ Sample ID: **L71353-05**
 Date Sampled: 02/08/22 12:00
 Date Received: 02/10/22
 Sample Matrix: Groundwater

Lead 210, dissolved
 EICHROM, OTW01

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Lead 210, dissolved	03/22/22 13:18		-0.05	1.9	5.1	pCi/L	*	amk

Polonium 210, dissolved
 HASL Po-01-RC

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Polonium 210, dissolved	03/08/22 9:28		0.551	3.1	3.9	pCi/L	*	slc

Radium 226, dissolved
 M903.1

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, dissolved	03/18/22 0:15		0.13	0.05	0.31	pCi/L	*	fdw

Radium 228, dissolved
 M9320

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228, dissolved	03/24/22 16:35		0.81	0.68	1.7	pCi/L	*	slc

Thorium 230, dissolved
 ESM 4506

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Thorium 230, dissolved	03/17/22 16:12		1.4	0.76	0.98	pCi/L	*	amk

Rio Algom Mining Company

Project ID: 4512060294
 Sample ID: 5-73 ALL-R-02082022
 Locator:

ACZ Sample ID: **L71353-06**
 Date Sampled: 02/08/22 9:43
 Date Received: 02/10/22
 Sample Matrix: Groundwater

Lead 210, dissolved
 EICHROM, OTW01

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Lead 210, dissolved	03/22/22 13:18		-1.6	1.6	4.5	pCi/L	*	amk

Polonium 210, dissolved
 HASL Po-01-RC

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Polonium 210, dissolved	03/08/22 9:28		0.0	48	6.3	pCi/L	*	slc

Radium 226, dissolved
 M903.1

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, dissolved	03/24/22 0:04		0.01	0.08	0.29	pCi/L	*	fdw

Radium 228, dissolved
 M9320

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228, dissolved	03/24/22 16:35		3.6	5.5	13	pCi/L	*	slc

Thorium 230, dissolved
 ESM 4506

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Thorium 230, dissolved	03/17/22 16:12		3.6	1.1	1.1	pCi/L	*	amk

Rio Algom Mining Company

Project ID: 4512060294
 Sample ID: 31-03 KD-02082022
 Locator:

ACZ Sample ID: **L71353-07**
 Date Sampled: 02/08/22 16:50
 Date Received: 02/10/22
 Sample Matrix: Groundwater

Lead 210, dissolved
 EICHROM, OTW01

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Lead 210, dissolved	03/22/22 13:18		-2.7	1.9	5.3	pCi/L	*	amk

Polonium 210, dissolved
 HASL Po-01-RC

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Polonium 210, dissolved	03/08/22 9:28		0.0	27	3.8	pCi/L	*	slc

Radium 226, dissolved
 M903.1

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, dissolved	03/18/22 0:17		8.5	0.28	0.16	pCi/L	*	fdw

Radium 228, dissolved
 M9320

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228, dissolved	03/24/22 16:35		8.9	1.4	2.4	pCi/L	*	slc

Thorium 230, dissolved
 ESM 4506

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Thorium 230, dissolved	03/28/22 14:32		0.557	0.38	0.55	pCi/L	*	amk

Rio Algom Mining Company

Project ID: 4512060294
 Sample ID: DUP-03-02082022
 Locator:

ACZ Sample ID: **L71353-08**
 Date Sampled: 02/08/22 0:00
 Date Received: 02/10/22
 Sample Matrix: Groundwater

Lead 210, dissolved
 EICHROM, OTW01

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Lead 210, dissolved	03/22/22 16:39		1.5	1.6	4.2	pCi/L	*	amk

Polonium 210, dissolved
 HASL Po-01-RC

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Polonium 210, dissolved	03/08/22 9:28		0.0	39	4.9	pCi/L	*	slc

Radium 226, dissolved
 M903.1

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, dissolved	03/18/22 0:18		0.14	0.05	0.23	pCi/L	*	fdw

Radium 228, dissolved
 M9320

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228, dissolved	03/24/22 16:35		1.7	1.9	4.7	pCi/L	*	slc

Thorium 230, dissolved
 ESM 4506

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Thorium 230, dissolved	03/17/22 16:12		3.17	1	1	pCi/L	*	amk

Rio Algom Mining Company

Project ID: 4512060294
 Sample ID: DUP-05-02082022
 Locator:

ACZ Sample ID: **L71353-09**
 Date Sampled: 02/08/22 0:00
 Date Received: 02/10/22
 Sample Matrix: Groundwater

Lead 210, dissolved
 EICHROM, OTW01

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Lead 210, dissolved	03/22/22 16:39		-0.19	2.6	6.9	pCi/L	*	amk

Polonium 210, dissolved
 HASL Po-01-RC

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Polonium 210, dissolved	03/08/22 9:28		1.01	3.3	3.8	pCi/L	*	slc

Radium 226, dissolved
 M903.1

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, dissolved	03/18/22 0:20		8.4	0.28	0.19	pCi/L	*	fdw

Radium 228, dissolved
 M9320

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228, dissolved	03/24/22 16:35		10	1.5	2.8	pCi/L	*	slc

Thorium 230, dissolved
 ESM 4506

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Thorium 230, dissolved	03/28/22 14:32		0.341	0.33	0.53	pCi/L	*	amk

Report Header Explanations

<i>Batch</i>	A distinct set of samples analyzed at a specific time
<i>Error(+/-)</i>	Calculated sample specific uncertainty
<i>Found</i>	Value of the QC Type of interest
<i>Limit</i>	Upper limit for RPD, in %.
<i>LCL</i>	Lower Control Limit, in % (except for LCSS, mg/Kg)
<i>LLD</i>	Calculated sample specific Lower Limit of Detection
<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
<i>QC</i>	True Value of the Control Sample or the amount added to the Spike
<i>Rec</i>	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
<i>REr</i>	Relative Error Ratio, calculation used for Dup. QC taking into account the error factor.
<i>RPD</i>	Relative Percent Difference, calculation used for Duplicate QC Types
<i>UCL</i>	Upper Control Limit, in % (except for LCSS, mg/Kg)
<i>Sample</i>	Value of the Sample of interest

QC Sample Types

<i>DUP</i>	Sample Duplicate	<i>MS/MSD</i>	Matrix Spike/Matrix Spike Duplicate
<i>LCSS</i>	Laboratory Control Sample - Soil	<i>PBS</i>	Prep Blank - Soil
<i>LCSW</i>	Laboratory Control Sample - Water	<i>PBW</i>	Prep Blank - Water

QC Sample Type Explanations

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

ACZ Qualifiers (Qual)

H	Analysis exceeded method hold time.
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Method Prefix Reference

M	EPA methodology, including those under SDWA, CWA, and RCRA
SM	Standard Methods for the Examination of Water and Wastewater.
D	ASTM
RP	DOE
ESM	DOE/ESM

Comments

- (1) Solid matrices are reported on a dry weight basis.
- (2) Preparation method: "Method" indicates preparation defined in analytical method.
- (3) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
- (4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.

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

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

QUIVIRA

ACZ Project ID: **L71353**

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

Lead 210, dissolved

EICHROM, OTW01

Units: pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG537353																
WG537353LCSW	LCSW	03/22/22	PCN64363	98.43				83	3.1	3.6	84	55	121			
WG537353PBW	PBW	03/22/22						-36	1.2	3.3			6.6			
L71215-04MS	MS	03/22/22	PCN64363	328.08	-3.9	4.7	13	240	11	14	74	55	121			
L71215-04DUP	DUP-RER	03/22/22			-3.9	4.7	13	3.1	4.1	11				1.12	2	
L71215-04DUP	DUP-RPD	03/22/22			-3.9	4.7	13	3.1	4.1	11				1750	20	RG
L71353-08DUP	DUP-RPD	03/22/22			1.5	1.6	4.2	1.6	1.7	4.3				6	20	
WG539097																
WG539097LCSW	LCSW	04/05/22	PCN64364	98.31				99	4.5	6.7	101	55	121			
WG539097PBW	PBW	04/05/22						-2.6	2.3	6.9			13.8			
L71280-01DUP	DUP-RPD	04/05/22			6.9	19	54	7.1	12	35				3	20	
L72132-02DUP	DUP-RPD	04/06/22			-34	25	70	7.7	16	43				317	20	RG
L72132-01MS	MS	04/06/22	PCN64364	983	4.8	14	37	830	34	43	84	55	121			
L72132-02DUP	DUP-RER	04/06/22			-34	25	70	7.7	16	43				1.4	2	

Polonium 210, dissolved

HASL Po-01-RC

Units: pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG537144																
WG537144PBW	PBW	02/23/22						0	29	4.1			8.2			
L71352-01MS	MS	02/23/22	PCN64364	500	0.413	2.4	3.1	545	120	4.3	109	51	128			
WG537144LCSW	LCSW	02/23/22	PCN64364	500				493	110	4.5	99	51	128			
L71353-02DUP	DUP-RER	02/24/22			0.184	3.1	3.9	0	31	4.2				0.01	2	
L71353-02DUP	DUP-RPD	02/24/22			0.184	3.1	3.9	0	31	4.2				200	20	RG
WG537575																
WG537575LCSW	LCSW	03/07/22	PCN64364	500				500	110	4.5	100	51	128			
WG537575PBW	PBW	03/07/22						.18	1.9	2.5			5			
L71349-02DUP	DUP-RPD	03/07/22			0	24	3.2	0	20	2.8				0	20	
L71379-01DUP	DUP-RPD	03/08/22			0	42	5.8	0	30	4				0	20	
L71353-04MS	MS	03/08/22	PCN64364	500	0	40	5.9	517	120	6.1	103	51	128			

QUIVIRA

ACZ Project ID: **L71353**

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.

Radium 226, dissolved

M903.1

Units: pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG537124																
WG537124LCSW	LCSW	03/18/22	PCN64374	20				16	0.45	0.41	80	43	148			
WG537124PBW	PBW	03/18/22						.11	0.1	0.7			1.4			
L71349-01DUP	DUP-RPD	03/18/22			2	0.16	0.41	1.9	0.16	0.43				5	20	
L71351-01MS	MS	03/18/22	PCN64374	20	2.2	0.15	0.29	9.4	0.28	0.23	36	43	148			M2
L71541-01DUP	DUP-RPD	03/18/22			0.03	0.04	0.23	.34	0.07	0.3				168	20	RM
WG538067																
WG538067LCSW	LCSW	03/24/22	PCN64374	20				18	0.49	0.46	90	43	148			
WG538067PBW	PBW	03/24/22						.09	0.06	0.36			0.72			
L71457-01DUP	DUP-RPD	03/24/22			1.9	0.21	0.61	.19	0.11	0.66				164	20	RM
L71457-02MS	MS	03/24/22	PCN64374	20	0.05	0.09	0.99	19	0.44	0.29	95	43	148			
L71552-01DUP	DUP-RPD	03/24/22			1.7	0.21	0.71	1.6	0.22	0.62				6	20	

Radium 228, dissolved

M9320

Units: pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG537188																
WG537188LCSW	LCSW	03/09/22	PCN64684	9.52				7.5	1.1	2.1	79	47	123			
WG537188PBW	PBW	03/09/22						1.1	0.71	1.9			3.8			
L71212-02MS	MS	03/09/22	PCN64684	1904.93	1000	180	340	2800	270	390	94	47	123			
L71212-02DUP	DUP-RPD	03/09/22			1000	180	340	1600	230	430				46	20	RM
L71353-01DUP	DUP-RPD	03/09/22			2.3	3.3	8.1	3.2	3.9	9.4				33	20	RG
L71353-01DUP	DUP-RER	03/09/22			2.3	3.3	8.1	3.2	3.9	9.4				0.18	2	
WG538074																
WG538074LCSW	LCSW	03/24/22	PCN64684	9.48				8.6	1.1	2	91	47	123			
WG538074PBW	PBW	03/24/22						.3	0.71	1.8			3.6			
L71291-01DUP	DUP-RER	03/24/22			4.7	1.6	3.5	2.1	1.7	4				1.11	2	
L71291-01DUP	DUP-RPD	03/24/22			4.7	1.6	3.5	2.1	1.7	4				76	20	RG
L71300-01MS	MS	03/24/22	PCN64684	9.48	0.49	1.3	2.9	9.6	1.2	2	96	47	123			
L71350-01DUP	DUP-RPD	03/24/22			1.8	1.1	2.7	2.1	1	2.4				15	20	

QUIVIRA

ACZ Project ID: **L71353**

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.

Thorium 230, dissolved

ESM 4506

Units: pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG537467																
WG537467LCSW	LCSW	03/16/22	PCN63437	200				188	24	0.62	94	91	126			
WG537467PBW	PBW	03/16/22						.537	0.31	0.41			0.82			
L71215-04DUP	DUP-RPD	03/16/22			28.6	11	13	53.1	17	17				60	20	RG
L71215-04DUP	DUP-RER	03/16/22			28.6	11	13	53.1	17	17				1.21	2	
L71215-04MS	MS	03/16/22	PCN63437	5000	28.6	11	13	4990	620	12	99	91	126			
WG538651																
WG538651LCSW	LCSW	03/25/22	PCN63437	200				205	26	0.31	103	91	126			
L71282-01DUP	DUP-RPD	03/25/22			0.081	0.43	0.79	.738	1	1.8				160	20	RG
L71282-01DUP	DUP-RER	03/25/22			0.081	0.43	0.79	.738	1	1.8				0.6	2	
WG538651PBW	PBW	03/28/22						1.2	0.45	0.5			1			N1
L71379-01MS	MS	03/28/22	PCN63437	200	0.641	0.36	0.48	190	24	0.38	95	91	126			
L71943-06DUP	DUP-RER	03/29/22			0.736	0.44	0.62	1.03	0.91	1.4				0.29	2	
L71943-06DUP	DUP-RPD	03/29/22			0.736	0.44	0.62	1.03	0.91	1.4				33	20	RG

Rio Algom Mining Company

ACZ Project ID: **L71353**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L71353-01	WG537353	Lead 210, dissolved	EICHROM, OTW01	D1	Sample required dilution due to matrix.
			EICHROM, OTW01	QB	Method-specified preservation criteria cannot be met due to sample matrix.
	WG537144	Polonium 210, dissolved	HASL Po-01-RC	D1	Sample required dilution due to matrix.
			HASL Po-01-RC	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG537124	Radium 226, dissolved	M903.1	D1	Sample required dilution due to matrix.
			M903.1	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M903.1	Q5	Sample received with inadequate chemical preservation. Additional preservation performed by the laboratory.
	WG537188	Radium 228, dissolved	M9320	D1	Sample required dilution due to matrix.
			M9320	Q5	Sample received with inadequate chemical preservation. Additional preservation performed by the laboratory.
			M9320	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG537467	Thorium 230, dissolved	ESM 4506	D1	Sample required dilution due to matrix.
			ESM 4506	QB	Method-specified preservation criteria cannot be met due to sample matrix.
ESM 4506			RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.	
L71353-02	WG539097	Lead 210, dissolved	EICHROM, OTW01	D1	Sample required dilution due to matrix.
			EICHROM, OTW01	Q5	Sample received with inadequate chemical preservation. Additional preservation performed by the laboratory.
	WG537144	Polonium 210, dissolved	HASL Po-01-RC	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
				DJ	Sample dilution required due to insufficient sample.
	WG538067	Radium 226, dissolved	M903.1	QB	Method-specified preservation criteria cannot be met due to sample matrix.
			M903.1	RM	For a water matrix, the duplicate precision assessment (RPD or RER) exceeded the control limit. High sediment, turbidity, or presence of an immiscible liquid attributed to non-homogeneity of the sample.
			M903.1	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG537188	Radium 228, dissolved	M9320	Q5	Sample received with inadequate chemical preservation. Additional preservation performed by the laboratory.
			M9320	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
			ESM 4506	DJ	Sample dilution required due to insufficient sample.
	WG537467	Thorium 230, dissolved	ESM 4506	QB	Method-specified preservation criteria cannot be met due to sample matrix.
			ESM 4506	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
ESM 4506			RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.	
L71353-03	WG537124	Radium 226, dissolved	M903.1	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M903.1	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG537188	Radium 228, dissolved	M9320	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
DJ				Sample dilution required due to insufficient sample.	
WG537467	Thorium 230, dissolved	ESM 4506	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.	
			ESM 4506	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.

Rio Algom Mining Company

ACZ Project ID: **L71353**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L71353-04	WG537124	Radium 226, dissolved	M903.1	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG537188	Radium 228, dissolved	M9320	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG537467	Thorium 230, dissolved	ESM 4506	DJ	Sample dilution required due to insufficient sample.
ESM 4506			RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.	
L71353-05	WG537124	Radium 226, dissolved	M903.1	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG538074	Radium 228, dissolved	M9320	DE	Sample required dilution. See Case Narrative.
	WG537467	Thorium 230, dissolved	ESM 4506	DJ	Sample dilution required due to insufficient sample.
ESM 4506			RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.	
L71353-06	WG538067	Radium 226, dissolved	M903.1	DJ	Sample dilution required due to insufficient sample.
			M903.1	RM	For a water matrix, the duplicate precision assessment (RPD or RER) exceeded the control limit. High sediment, turbidity, or presence of an immiscible liquid attributed to non-homogeneity of the sample.
	WG538074	Radium 228, dissolved	M9320	DE	Sample required dilution. See Case Narrative.
L71353-07	WG537124	Radium 226, dissolved	ESM 4506	DJ	Sample dilution required due to insufficient sample.
			ESM 4506	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG538651	Thorium 230, dissolved	ESM 4506	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
L71353-08	WG538074	Radium 228, dissolved	M9320	DE	Sample required dilution. See Case Narrative.
			ESM 4506	N1	See Case Narrative.
	WG537467	Thorium 230, dissolved	ESM 4506	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
L71353-09	WG537124	Radium 226, dissolved	M903.1	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M903.1	RM	For a water matrix, the duplicate precision assessment (RPD or RER) exceeded the control limit. High sediment, turbidity, or presence of an immiscible liquid attributed to non-homogeneity of the sample.
	WG538651	Thorium 230, dissolved	ESM 4506	DE	Sample required dilution. See Case Narrative.
L71353-09	WG538074	Radium 228, dissolved	M9320	N1	See Case Narrative.
			ESM 4506	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG537467	Thorium 230, dissolved	ESM 4506	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.

Rio Algom Mining Company

ACZ Project ID: **L71353**

Radiochemistry

The following parameters are not offered for certification or are not covered by NELAC certificate #ACZ.

Lead 210, dissolved	EICHROM, OTW01
Polonium 210, dissolved	HASL Po-01-RC
Thorium 230, dissolved	ESM 4506

Rio Algom Mining Company
 4512060294

ACZ Project ID: L71353
 Date Received: 02/10/2022 09:30
 Received By:
 Date Printed: 2/11/2022

Receipt Verification

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

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? ¹		X	

L71353-01 Container B2504447 (GREEN CUBE): Added 10 mls nitric acid to the sub-sample. The pH is 4.

L71353-01 Container B2504447 (GREEN CUBE): Added 10 mls nitric acid to the sub-sample to adjust the pH to the appropriate range.

L71353-02 Container B2504453 (GREEN CUBE): Added 10 mls nitric acid to the sub-sample. The pH is 4.

L71353-02 Container B2504453 (GREEN CUBE): Added 10 mls nitric acid to the sub-sample to adjust the pH to the appropriate range.

12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

NA indicates Not Applicable

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Rio Algom Mining Company
 4512060294

ACZ Project ID: L71353
 Date Received: 02/10/2022 09:30
 Received By:
 Date Printed: 2/11/2022

Cooler Id	Temp (°C)	Temp Criteria (°C)	Rad (µR/Hr)	Custody Seal Intact?
5283	0.3	<=6.0	15	N/A
6715	1.6	<=6.0	15	N/A
6505	0.4	<=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.

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

L71353

CHAIN of CUSTODY

Report to:

Name: Kent Applegate	Address: 201 C Sante Fe Avenue
Company: Rio Algom Mining LLC	Grants NM 87020
E-mail: Kent.Applegate@bhp.com	Telephone: 505-801-1761

Copy of Report to:

Name: See Remarks	E-mail: See Remarks
Company:	Telephone:

Invoice to:

Name: Kent Applegate	Address: 201 C Sante Fe Avenue
Company: Rio Algom Mining LLC	Grants NM 87020
E-mail: Kent.Applegate@bhp.com	Telephone: 505-801-1761

Copy of Invoice to:

Name: See Remarks	Address:
Company:	Telephone:
E-mail: See Remarks	

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: Kelly Hoehn Sampler's Site Information State NM Zip code 87020 Time Zone MST

*Sampler's 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 #: BO48856	ANALYSES REQUESTED (attach list or use quote number)											
PO#: 4512060294												
Reporting state for compliance testing:												
Check box if samples include NRC licensed material? <input checked="" type="checkbox"/>	# of containers	NRC-ALL										
SAMPLE IDENTIFICATION	DATE:TIME	Matrix	#									
31-65 ALL-02042022	2/4/2022 13:25	GW	5	✓								
31-61 ALL-02042022	2/4/2022 14:27	GW	5	✓								
32-59 ALL-02072022	2/7/2022 10:25	GW	5	✓								
5-08 ALL-R-02082022	2/8/2022 12:50	GW	5	✓								
5-03 ALL-R-02082022	2/8/2022 12:00	GW	5	✓								
5-73 ALL-R-02082022	2/8/2022 09:43	GW	5	✓								
31-03 KD-02082022	2/8/2022 16:50	GW	5	✓								
DUP-03-02082022	2/8/2022 00:00	GW	5	✓								
DUP-05-02082022	2/8/2022 00:00	GW	5	✓								

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

REMARKS

Please CC Report to email list. DUP-03-02082022 and DUP-05-02082022 have no collection times.

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

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
JOE SEPUL	2/9 1530		2/10/22 9:31

Qualtrax ID: 1984 Revision #: 2 White - Return with sample. Yellow - Retain for your records.

