

March 22, 2018

## 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: Clark Short, Angela Persico

Project ID: 4502696253

ACZ Project ID: L42846

## Kent Applegate:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on February 22, 2018. This project has been assigned to ACZ's project number, L42846. 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 L42846. 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 April 21, 2018. 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.



Scott Habermehl has reviewed  
and approved this report.



**Rio Algom Mining Company**

Project ID: 4502696253

Sample ID: 31-61 ALL

ACZ Sample ID: **L42846-01**

Date Sampled: 02/20/18 10:41

Date Received: 02/22/18

Sample Matrix: Ground Water

## Metals Analysis

| Parameter             | EPA Method            | Dilution | Result | Qual | XQ | Units | MDL   | PQL   | Date           | Analyst |
|-----------------------|-----------------------|----------|--------|------|----|-------|-------|-------|----------------|---------|
| Calcium, dissolved    | M200.7 ICP            | 10       | 531    |      |    | mg/L  | 1     | 5     | 03/07/18 21:32 | dcm     |
| Iron, dissolved       | M200.7 ICP            | 10       |        | U    |    | mg/L  | 0.2   | 0.5   | 03/07/18 21:32 | dcm     |
| Magnesium, dissolved  | M200.7 ICP            | 10       | 1270   |      |    | mg/L  | 2     | 10    | 03/07/18 21:32 | dcm     |
| Molybdenum, dissolved | M200.8 ICP-MS         | 10       |        | U    |    | mg/L  | 0.005 | 0.03  | 03/05/18 13:30 | msh     |
| Nickel, dissolved     | M200.8 ICP-MS         | 10       | 0.054  |      |    | mg/L  | 0.006 | 0.03  | 03/05/18 13:30 | msh     |
| Potassium, dissolved  | M200.7 ICP            | 10       | 28     |      |    | mg/L  | 2     | 10    | 03/07/18 21:32 | dcm     |
| Selenium, dissolved   | SM 3114 B, AA-Hydride | 1        | 0.0048 | B    |    | mg/L  | 0.001 | 0.005 | 02/28/18 14:51 | sck     |
| Sodium, dissolved     | M200.7 ICP            | 10       | 1680   |      |    | mg/L  | 2     | 10    | 03/07/18 21:32 | dcm     |
| Uranium, dissolved    | M200.8 ICP-MS         | 10       | 0.666  |      |    | mg/L  | 0.001 | 0.005 | 03/05/18 13:30 | msh     |

## Wet Chemistry

| Parameter                         | EPA Method  | Dilution | Result | Qual | XQ | Units    | MDL  | PQL  | Date           | Analyst |
|-----------------------------------|---|----------|--------|------|----|----------|------|------|----------------|---------|
| Alkalinity as CaCO <sub>3</sub>   | SM2320B - Titration                               |          |        |      |    |          |      |      |                |         |
| Bicarbonate as CaCO <sub>3</sub>  |   | 1        | 1860   |      |    | mg/L     | 2    | 20   | 02/27/18 0:00  | ecc     |
| Carbonate as CaCO <sub>3</sub>    |   | 1        |        | U    |    | mg/L     | 2    | 20   | 02/27/18 0:00  | ecc     |
| Hydroxide as CaCO <sub>3</sub>    |   | 1        |        | U    |    | mg/L     | 2    | 20   | 02/27/18 0:00  | ecc     |
| Total Alkalinity                  |   | 1        | 1860   |      |    | mg/L     | 2    | 20   | 02/27/18 0:00  | ecc     |
| Cation-Anion Balance              | Calculation                                       |          |        |      |    |          |      |      |                |         |
| Cation-Anion Balance              |   |          | -4.2   |      |    | %        |      |      | 03/22/18 0:00  | calc    |
| Sum of Anions                     |   |          | 223    |      |    | meq/L    |      |      | 03/22/18 0:00  | calc    |
| Sum of Cations                    |   |          | 205    |      |    | meq/L    |      |      | 03/22/18 0:00  | calc    |
| Chloride                          | SM4500Cl-E  | 50       | 2420   |      |    | mg/L     | 30   | 100  | 02/27/18 13:31 | kea     |
| Conductivity @25C                 | SM2510B   | 1        | 15400  |      |    | umhos/cm | 1    | 10   | 02/27/18 2:32  | ecc     |
| Nitrate/Nitrite as N              | M353.2 - H <sub>2</sub> SO <sub>4</sub> preserved | 4        | 6.69   |      |    | mg/L     | 0.08 | 0.4  | 03/10/18 0:09  | pjb     |
| Residue, Filterable (TDS) @180C   | SM2540C   | 5        | 13800  |      |    | mg/L     | 50   | 100  | 02/24/18 12:19 | che     |
| Sulfate                           | D516-02/-07 - Turbidimetric                       | 200      | 5630   |      | *  | mg/L     | 200  | 1000 | 02/28/18 12:12 | kea     |
| TDS (calculated)                  | Calculation                                       |          | 12700  |      |    | mg/L     |      |      | 03/22/18 0:00  | calc    |
| TDS (ratio - measured/calculated) | Calculation                                       |          | 1.09   |      |    |          |      |      | 03/22/18 0:00  | calc    |

**Rio Algom Mining Company**

Project ID: 4502696253

Sample ID: 31-65 ALL

ACZ Sample ID: **L42846-02**

Date Sampled: 02/20/18 13:02

Date Received: 02/23/18

Sample Matrix: Ground Water

**Metals Analysis**

| Parameter             | EPA Method            | Dilution | Result | Qual | XQ | Units | MDL   | PQL   | Date           | Analyst |
|-----------------------|-----------------------|----------|--------|------|----|-------|-------|-------|----------------|---------|
| Calcium, dissolved    | M200.7 ICP            | 10       | 576    |      |    | mg/L  | 1     | 5     | 03/07/18 21:35 | dcm     |
| Iron, dissolved       | M200.7 ICP            | 10       | 147    |      |    | mg/L  | 0.2   | 0.5   | 03/07/18 21:35 | dcm     |
| Magnesium, dissolved  | M200.7 ICP            | 10       | 1440   |      |    | mg/L  | 2     | 10    | 03/07/18 21:35 | dcm     |
| Molybdenum, dissolved | M200.8 ICP-MS         | 10       |        | U    |    | mg/L  | 0.005 | 0.03  | 03/05/18 13:33 | msh     |
| Nickel, dissolved     | M200.8 ICP-MS         | 10       | 0.126  |      |    | mg/L  | 0.006 | 0.03  | 03/05/18 13:33 | msh     |
| Potassium, dissolved  | M200.7 ICP            | 10       | 46     |      |    | mg/L  | 2     | 10    | 03/07/18 21:35 | dcm     |
| Selenium, dissolved   | SM 3114 B, AA-Hydride | 5        |        | U    | *  | mg/L  | 0.005 | 0.025 | 02/28/18 15:10 | sck     |
| Sodium, dissolved     | M200.7 ICP            | 10       | 1770   |      |    | mg/L  | 2     | 10    | 03/07/18 21:35 | dcm     |
| Uranium, dissolved    | M200.8 ICP-MS         | 10       | 0.084  |      |    | mg/L  | 0.001 | 0.005 | 03/05/18 13:33 | msh     |

**Wet Chemistry**

| Parameter                         | EPA Method  | Dilution | Result | Qual | XQ | Units    | MDL  | PQL  | Date           | Analyst |
|-----------------------------------|---|----------|--------|------|----|----------|------|------|----------------|---------|
| Alkalinity as CaCO <sub>3</sub>   | SM2320B - Titration                               |          |        |      |    |          |      |      |                |         |
| Bicarbonate as CaCO <sub>3</sub>  |   | 1        | 1660   |      |    | mg/L     | 2    | 20   | 02/27/18 0:00  | ecc     |
| Carbonate as CaCO <sub>3</sub>    |   | 1        |        | U    |    | mg/L     | 2    | 20   | 02/27/18 0:00  | ecc     |
| Hydroxide as CaCO <sub>3</sub>    |   | 1        |        | U    |    | mg/L     | 2    | 20   | 02/27/18 0:00  | ecc     |
| Total Alkalinity                  |   | 1        | 1660   |      | *  | mg/L     | 2    | 20   | 02/27/18 0:00  | ecc     |
| Cation-Anion Balance              | Calculation                                       |          |        |      |    |          |      |      |                |         |
| Cation-Anion Balance              |   |          | -0.6   |      |    | %        |      |      | 03/22/18 0:00  | calc    |
| Sum of Anions                     |   |          | 237    |      |    | meq/L    |      |      | 03/22/18 0:00  | calc    |
| Sum of Cations                    |   |          | 234    |      |    | meq/L    |      |      | 03/22/18 0:00  | calc    |
| Chloride                          | SM4500Cl-E  | 50       | 2610   |      |    | mg/L     | 30   | 100  | 02/27/18 13:31 | kea     |
| Conductivity @25C                 | SM2510B   | 1        | 16000  |      | *  | umhos/cm | 1    | 10   | 02/27/18 2:53  | ecc     |
| Nitrate/Nitrite as N              | M353.2 - H <sub>2</sub> SO <sub>4</sub> preserved | 1        | 0.03   | B    |    | mg/L     | 0.02 | 0.1  | 03/09/18 23:34 | pjb     |
| Residue, Filterable (TDS) @180C   | SM2540C   | 5        | 15200  |      |    | mg/L     | 50   | 100  | 02/24/18 12:21 | che     |
| Sulfate                           | D516-02/-07 - Turbidimetric                       | 200      | 6240   |      | *  | mg/L     | 200  | 1000 | 02/28/18 12:12 | kea     |
| TDS (calculated)                  | Calculation                                       |          | 13800  |      |    | mg/L     |      |      | 03/22/18 0:00  | calc    |
| TDS (ratio - measured/calculated) | Calculation                                       |          | 1.10   |      |    |          |      |      | 03/22/18 0:00  | calc    |

### Rio Algom Mining Company

Project ID: 4502696253

Sample ID: 19-77 TRB

ACZ Sample ID: **L42846-03**

Date Sampled: 02/21/18 11:00

Date Received: 02/23/18

Sample Matrix: Ground Water

### Metals Analysis

| Parameter             | EPA Method            | Dilution | Result | Qual | XQ | Units | MDL    | PQL   | Date           | Analyst |
|-----------------------|-----------------------|----------|--------|------|----|-------|--------|-------|----------------|---------|
| Calcium, dissolved    | M200.7 ICP            | 2        | 109    |      |    | mg/L  | 0.2    | 1     | 03/07/18 21:38 | dcm     |
| Iron, dissolved       | M200.7 ICP            | 2        |        | U    |    | mg/L  | 0.04   | 0.1   | 03/07/18 21:38 | dcm     |
| Magnesium, dissolved  | M200.7 ICP            | 2        | 54.2   |      |    | mg/L  | 0.4    | 2     | 03/07/18 21:38 | dcm     |
| Molybdenum, dissolved | M200.8 ICP-MS         | 2        | 0.004  | B    |    | mg/L  | 0.001  | 0.005 | 03/05/18 13:36 | msh     |
| Nickel, dissolved     | M200.8 ICP-MS         | 2        | 0.002  | B    |    | mg/L  | 0.001  | 0.006 | 03/05/18 13:36 | msh     |
| Potassium, dissolved  | M200.7 ICP            | 2        | 7.6    |      |    | mg/L  | 0.4    | 2     | 03/07/18 21:38 | dcm     |
| Selenium, dissolved   | SM 3114 B, AA-Hydride | 1        |        | U    | *  | mg/L  | 0.001  | 0.005 | 02/28/18 15:12 | sck     |
| Sodium, dissolved     | M200.7 ICP            | 2        | 900    |      |    | mg/L  | 0.4    | 2     | 03/07/18 21:38 | dcm     |
| Uranium, dissolved    | M200.8 ICP-MS         | 2        | 0.0113 |      |    | mg/L  | 0.0002 | 0.001 | 03/05/18 13:36 | msh     |

### Wet Chemistry

| Parameter                         | EPA Method                  | Dilution | Result | Qual | XQ | Units    | MDL   | PQL  | Date           | Analyst |
|-----------------------------------|-----------------------------|----------|--------|------|----|----------|-------|------|----------------|---------|
| Alkalinity as CaCO3               | SM2320B - Titration         |          |        |      |    |          |       |      |                |         |
| Bicarbonate as CaCO3              |                             | 1        | 488    |      |    | mg/L     | 2     | 20   | 02/27/18 0:00  | ecc     |
| Carbonate as CaCO3                |                             | 1        |        | U    |    | mg/L     | 2     | 20   | 02/27/18 0:00  | ecc     |
| Hydroxide as CaCO3                |                             | 1        |        | U    |    | mg/L     | 2     | 20   | 02/27/18 0:00  | ecc     |
| Total Alkalinity                  |                             | 1        | 488    |      |    | mg/L     | 2     | 20   | 02/27/18 0:00  | ecc     |
| Cation-Anion Balance              | Calculation                 |          |        |      |    |          |       |      |                |         |
| Cation-Anion Balance              |                             |          | -1.0   |      |    | %        |       |      | 03/22/18 0:00  | calc    |
| Sum of Anions                     |                             |          | 51     |      |    | meq/L    |       |      | 03/22/18 0:00  | calc    |
| Sum of Cations                    |                             |          | 50     |      |    | meq/L    |       |      | 03/22/18 0:00  | calc    |
| Chloride                          | SM4500Cl-E                  | 1        | 16.1   |      |    | mg/L     | 0.5   | 2    | 02/27/18 13:19 | kea     |
| Conductivity @25C                 | SM2510B                     | 1        | 4430   |      |    | umhos/cm | 1     | 10   | 02/27/18 3:03  | ecc     |
| Cyanide, Total                    | D7511-09                    | 1        |        | U    |    | mg/L     | 0.003 | 0.01 | 02/27/18 14:54 | las     |
| Nitrate/Nitrite as N              | M353.2 - H2SO4 preserved    | 1        | 0.33   |      |    | mg/L     | 0.02  | 0.1  | 03/09/18 23:35 | pjb     |
| Residue, Filterable (TDS) @180C   | SM2540C                     | 1        | 3510   |      |    | mg/L     | 10    | 20   | 02/24/18 12:22 | che     |
| Sulfate                           | D516-02/-07 - Turbidimetric | 50       | 1920   |      | *  | mg/L     | 50    | 250  | 02/28/18 11:59 | kea     |
| TDS (calculated)                  | Calculation                 |          | 3300   |      |    | mg/L     |       |      | 03/22/18 0:00  | calc    |
| TDS (ratio - measured/calculated) | Calculation                 |          | 1.06   |      |    |          |       |      | 03/22/18 0:00  | calc    |

**Rio Algom Mining Company**

Project ID: 4502696253

Sample ID: 5-02 KD

ACZ Sample ID: **L42846-04**

Date Sampled: 02/21/18 14:10

Date Received: 02/23/18

Sample Matrix: Ground Water

**Metals Analysis**

| Parameter             | EPA Method            | Dilution | Result | Qual | XQ | Units | MDL     | PQL    | Date           | Analyst |
|-----------------------|-----------------------|----------|--------|------|----|-------|---------|--------|----------------|---------|
| Antimony, dissolved   | M200.8 ICP-MS         | 1        |        | U    |    | mg/L  | 0.0004  | 0.002  | 03/05/18 13:39 | msh     |
| Arsenic, dissolved    | M200.8 ICP-MS         | 1        |        | U    |    | mg/L  | 0.0002  | 0.001  | 03/05/18 13:39 | msh     |
| Barium, dissolved     | M200.7 ICP            | 1        | 0.030  |      |    | mg/L  | 0.003   | 0.02   | 03/07/18 21:41 | dcm     |
| Beryllium, dissolved  | M200.8 ICP-MS         | 1        |        | U    |    | mg/L  | 0.00005 | 0.0003 | 03/05/18 13:39 | msh     |
| Cadmium, dissolved    | M200.8 ICP-MS         | 1        |        | U    |    | mg/L  | 0.0001  | 0.0005 | 03/05/18 13:39 | msh     |
| Calcium, dissolved    | M200.7 ICP            | 1        | 85.7   |      |    | mg/L  | 0.1     | 0.5    | 03/07/18 21:41 | dcm     |
| Iron, dissolved       | M200.7 ICP            | 1        | 0.23   |      |    | mg/L  | 0.02    | 0.05   | 03/07/18 21:41 | dcm     |
| Lead, dissolved       | M200.8 ICP-MS         | 1        |        | U    |    | mg/L  | 0.0001  | 0.0005 | 03/05/18 13:39 | msh     |
| Magnesium, dissolved  | M200.7 ICP            | 1        | 71.7   |      |    | mg/L  | 0.2     | 1      | 03/07/18 21:41 | dcm     |
| Molybdenum, dissolved | M200.8 ICP-MS         | 1        |        | U    |    | mg/L  | 0.0005  | 0.003  | 03/05/18 13:39 | msh     |
| Nickel, dissolved     | M200.8 ICP-MS         | 1        | 0.0008 | B    |    | mg/L  | 0.0006  | 0.003  | 03/05/18 13:39 | msh     |
| Potassium, dissolved  | M200.7 ICP            | 1        | 16.1   |      |    | mg/L  | 0.2     | 1      | 03/07/18 21:41 | dcm     |
| Selenium, dissolved   | SM 3114 B, AA-Hydride | 1        |        | U    | *  | mg/L  | 0.001   | 0.005  | 02/28/18 15:14 | sck     |
| Sodium, dissolved     | M200.7 ICP            | 1        | 90.4   |      |    | mg/L  | 0.2     | 1      | 03/07/18 21:41 | dcm     |
| Uranium, dissolved    | M200.8 ICP-MS         | 1        | 0.0013 |      |    | mg/L  | 0.0001  | 0.0005 | 03/05/18 13:39 | msh     |

**Wet Chemistry**

| Parameter                         | EPA Method  | Dilution | Result | Qual | XQ | Units    | MDL   | PQL  | Date           | Analyst |
|-----------------------------------|---|----------|--------|------|----|----------|-------|------|----------------|---------|
| Alkalinity as CaCO <sub>3</sub>   | SM2320B - Titration                               |          |        |      |    |          |       |      |                |         |
| Bicarbonate as CaCO <sub>3</sub>  |   | 1        | 431    |      |    | mg/L     | 2     | 20   | 02/27/18 0:00  | ecc     |
| Carbonate as CaCO <sub>3</sub>    |   | 1        | 16.5   | B    |    | mg/L     | 2     | 20   | 02/27/18 0:00  | ecc     |
| Hydroxide as CaCO <sub>3</sub>    |   | 1        |        | U    |    | mg/L     | 2     | 20   | 02/27/18 0:00  | ecc     |
| Total Alkalinity                  |   | 1        | 448    |      | *  | mg/L     | 2     | 20   | 02/27/18 0:00  | ecc     |
| Cation-Anion Balance              | Calculation                                       |          |        |      |    |          |       |      |                |         |
| Cation-Anion Balance              |   |          | 0.0    |      |    | %        |       |      | 03/22/18 0:00  | calc    |
| Sum of Anions                     |   |          | 15.0   |      |    | meq/L    |       |      | 03/22/18 0:00  | calc    |
| Sum of Cations                    |   |          | 15     |      |    | meq/L    |       |      | 03/22/18 0:00  | calc    |
| Chloride                          | SM4500Cl-E  | 1        | 10.1   |      |    | mg/L     | 0.5   | 2    | 02/27/18 13:19 | kea     |
| Conductivity @25C                 | SM2510B   | 1        | 1260   |      | *  | umhos/cm | 1     | 10   | 02/27/18 3:14  | ecc     |
| Cyanide, Total                    | D7511-09  | 1        |        | U    |    | mg/L     | 0.003 | 0.01 | 02/27/18 14:56 | las     |
| Nitrate/Nitrite as N              | M353.2 - H <sub>2</sub> SO <sub>4</sub> preserved | 1        | 0.26   |      |    | mg/L     | 0.02  | 0.1  | 03/09/18 23:37 | pjb     |
| pH (lab)                          | SM4500H+ B  |          |        |      |    |          |       |      |                |         |
| pH                                |   | 1        | 8.3    | H    | *  | units    | 0.1   | 0.1  | 02/27/18 0:00  | ecc     |
| pH measured at                    |   | 1        | 21.7   |      |    | C        | 0.1   | 0.1  | 02/27/18 0:00  | ecc     |
| Residue, Filterable (TDS) @180C   | SM2540C   | 1        | 852    |      |    | mg/L     | 10    | 20   | 02/24/18 12:23 | che     |
| Sulfate                           | D516-02/-07 - Turbidimetric                       | 20       | 273    |      | *  | mg/L     | 20    | 100  | 02/28/18 11:52 | kea     |
| TDS (calculated)                  | Calculation                                       |          | 820    |      |    | mg/L     |       |      | 03/22/18 0:00  | calc    |
| TDS (ratio - measured/calculated) | Calculation                                       |          | 1.04   |      |    |          |       |      | 03/22/18 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).<br>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.<br>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:

<http://www.acz.com/public/extquallist.pdf>

Rio Algom Mining Company

ACZ Project ID: **L42846**

**Alkalinity as CaCO<sub>3</sub>**

SM2320B - Titration

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC       | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|----------|--------|-------|-------|-----|-------|-------|-----|-------|------|
| <b>WG442485</b> |      |                |            |          |        |       |       |     |       |       |     |       |      |
| WG442485PBW1    | PBW  | 02/26/18 15:59 |            |          |        | 14.8  | mg/L  |     | -20   | 20    |     |       |      |
| WG442485LCSW3   | LCSW | 02/26/18 16:16 | WC180216-2 | 820.0001 |        | 799   | mg/L  | 97  | 90    | 110   |     |       |      |
| WG442485LCSW6   | LCSW | 02/26/18 18:26 | WC180216-2 | 820.0001 |        | 786   | mg/L  | 96  | 90    | 110   |     |       |      |
| WG442485PBW2    | PBW  | 02/26/18 18:32 |            |          |        | 4.6   | mg/L  |     | -20   | 20    |     |       |      |
| WG442485LCSW9   | LCSW | 02/26/18 21:08 | WC180216-2 | 820.0001 |        | 796   | mg/L  | 97  | 90    | 110   |     |       |      |
| WG442485PBW3    | PBW  | 02/26/18 21:14 |            |          |        | 2.9   | mg/L  |     | -20   | 20    |     |       |      |
| WG442485LCSW12  | LCSW | 02/27/18 0:27  | WC180216-2 | 820.0001 |        | 812   | mg/L  | 99  | 90    | 110   |     |       |      |
| WG442485PBW4    | PBW  | 02/27/18 0:33  |            |          |        | 3.3   | mg/L  |     | -20   | 20    |     |       |      |
| L42856-01DUP    | DUP  | 02/27/18 3:32  |            |          | 162    | 145   | mg/L  |     |       |       | 11  | 20    |      |
| WG442485LCSW15  | LCSW | 02/27/18 3:49  | WC180216-2 | 820.0001 |        | 820   | mg/L  | 100 | 90    | 110   |     |       |      |

**Antimony, dissolved**

M200.8 ICP-MS

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC  | Sample | Found  | Units | Rec | Lower   | Upper  | RPD | Limit | Qual |
|-----------------|------|----------------|------------|-----|--------|--------|-------|-----|---------|--------|-----|-------|------|
| <b>WG442858</b> |      |                |            |     |        |        |       |     |         |        |     |       |      |
| WG442858ICV     | ICV  | 03/05/18 12:46 | MS180219-2 | .02 |        | .01972 | mg/L  | 99  | 90      | 110    |     |       |      |
| WG442858ICB     | ICB  | 03/05/18 12:49 |            |     |        | U      | mg/L  |     | -0.0012 | 0.0012 |     |       |      |
| WG442858LFB     | LFB  | 03/05/18 12:52 | MS180302-2 | .01 |        | .00967 | mg/L  | 97  | 85      | 115    |     |       |      |
| L42852-03AS     | AS   | 03/05/18 13:52 | MS180302-2 | .05 | U      | .0469  | mg/L  | 94  | 70      | 130    |     |       |      |
| L42852-03ASD    | ASD  | 03/05/18 13:55 | MS180302-2 | .05 | U      | .047   | mg/L  | 94  | 70      | 130    | 0   | 20    |      |

**Arsenic, dissolved**

M200.8 ICP-MS

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC    | Sample | Found  | Units | Rec | Lower   | Upper  | RPD | Limit | Qual |
|-----------------|------|----------------|------------|-------|--------|--------|-------|-----|---------|--------|-----|-------|------|
| <b>WG442858</b> |      |                |            |       |        |        |       |     |         |        |     |       |      |
| WG442858ICV     | ICV  | 03/05/18 12:46 | MS180219-2 | .05   |        | .05127 | mg/L  | 103 | 90      | 110    |     |       |      |
| WG442858ICB     | ICB  | 03/05/18 12:49 |            |       |        | U      | mg/L  |     | -0.0006 | 0.0006 |     |       |      |
| WG442858LFB     | LFB  | 03/05/18 12:52 | MS180302-2 | .0501 |        | .04962 | mg/L  | 99  | 85      | 115    |     |       |      |
| L42852-03AS     | AS   | 03/05/18 13:52 | MS180302-2 | .2505 | U      | .2446  | mg/L  | 98  | 70      | 130    |     |       |      |
| L42852-03ASD    | ASD  | 03/05/18 13:55 | MS180302-2 | .2505 | U      | .2482  | mg/L  | 99  | 70      | 130    | 1   | 20    |      |

**Barium, dissolved**

M200.7 ICP

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC    | Sample | Found | Units | Rec | Lower  | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|-------|--------|-------|-------|-----|--------|-------|-----|-------|------|
| <b>WG443025</b> |      |                |            |       |        |       |       |     |        |       |     |       |      |
| WG443025ICV     | ICV  | 03/07/18 20:26 | II180208-1 | 2     |        | 1.968 | mg/L  | 98  | 95     | 105   |     |       |      |
| WG443025ICB     | ICB  | 03/07/18 20:33 |            |       |        | .0046 | mg/L  |     | -0.009 | 0.009 |     |       |      |
| WG443025LFB     | LFB  | 03/07/18 20:46 | II180228-3 | .5025 |        | .4862 | mg/L  | 97  | 85     | 115   |     |       |      |
| L42912-04AS     | AS   | 03/07/18 21:54 | II180228-3 | .5025 | .036   | .5415 | mg/L  | 101 | 85     | 115   |     |       |      |
| L42912-04ASD    | ASD  | 03/07/18 22:04 | II180228-3 | .5025 | .036   | .5141 | mg/L  | 95  | 85     | 115   | 5   | 20    |      |

**Beryllium, dissolved**

M200.8 ICP-MS

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC     | Sample | Found  | Units | Rec | Lower    | Upper   | RPD | Limit | Qual |
|-----------------|------|----------------|------------|--------|--------|--------|-------|-----|----------|---------|-----|-------|------|
| <b>WG442858</b> |      |                |            |        |        |        |       |     |          |         |     |       |      |
| WG442858ICV     | ICV  | 03/05/18 12:46 | MS180219-2 | .05    |        | .04732 | mg/L  | 95  | 90       | 110     |     |       |      |
| WG442858ICB     | ICB  | 03/05/18 12:49 |            |        |        | U      | mg/L  |     | -0.00015 | 0.00015 |     |       |      |
| WG442858LFB     | LFB  | 03/05/18 12:52 | MS180302-2 | .05035 |        | .04643 | mg/L  | 92  | 85       | 115     |     |       |      |
| L42852-03AS     | AS   | 03/05/18 13:52 | MS180302-2 | .25175 | U      | .2435  | mg/L  | 97  | 70       | 130     |     |       |      |
| L42852-03ASD    | ASD  | 03/05/18 13:55 | MS180302-2 | .25175 | U      | .24315 | mg/L  | 97  | 70       | 130     | 0   | 20    |      |

Rio Algom Mining Company

ACZ Project ID: **L42846**

**Cadmium, dissolved**

M200.8 ICP-MS

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC     | Sample | Found  | Units | Rec | Lower   | Upper  | RPD | Limit | Qual |
|-----------------|------|----------------|------------|--------|--------|--------|-------|-----|---------|--------|-----|-------|------|
| <b>WG442858</b> |      |                |            |        |        |        |       |     |         |        |     |       |      |
| WG442858ICV     | ICV  | 03/05/18 12:46 | MS180219-2 | .05    |        | .05154 | mg/L  | 103 | 90      | 110    |     |       |      |
| WG442858ICB     | ICB  | 03/05/18 12:49 |            |        |        | U      | mg/L  |     | -0.0003 | 0.0003 |     |       |      |
| WG442858LFB     | LFB  | 03/05/18 12:52 | MS180302-2 | .05005 |        | .04894 | mg/L  | 98  | 85      | 115    |     |       |      |
| L42852-03AS     | AS   | 03/05/18 13:52 | MS180302-2 | .25025 | U      | .2298  | mg/L  | 92  | 70      | 130    |     |       |      |
| L42852-03ASD    | ASD  | 03/05/18 13:55 | MS180302-2 | .25025 | U      | .2295  | mg/L  | 92  | 70      | 130    | 0   | 20    |      |

**Calcium, dissolved**

M200.7 ICP

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC       | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|----------|--------|-------|-------|-----|-------|-------|-----|-------|------|
| <b>WG443025</b> |      |                |            |          |        |       |       |     |       |       |     |       |      |
| WG443025ICV     | ICV  | 03/07/18 20:26 | II180208-1 | 100      |        | 99.02 | mg/L  | 99  | 95    | 105   |     |       |      |
| WG443025ICB     | ICB  | 03/07/18 20:33 |            |          |        | U     | mg/L  |     | -0.3  | 0.3   |     |       |      |
| WG443025LFB     | LFB  | 03/07/18 20:46 | II180228-3 | 68.03333 |        | 67.26 | mg/L  | 99  | 85    | 115   |     |       |      |
| L42845-07AS     | AS   | 03/07/18 21:25 | II180228-3 | 68.03333 | 113    | 175.3 | mg/L  | 92  | 85    | 115   |     |       |      |
| L42845-07ASD    | ASD  | 03/07/18 21:28 | II180228-3 | 68.03333 | 113    | 175   | mg/L  | 91  | 85    | 115   | 0   | 20    |      |
| L42912-04AS     | AS   | 03/07/18 21:54 | II180228-3 | 68.03333 | 108    | 171.9 | mg/L  | 94  | 85    | 115   |     |       |      |
| L42912-04ASD    | ASD  | 03/07/18 22:04 | II180228-3 | 68.03333 | 108    | 171.1 | mg/L  | 93  | 85    | 115   | 0   | 20    |      |

**Chloride**

SM4500CI-E

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC     | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|--------|--------|-------|-------|-----|-------|-------|-----|-------|------|
| <b>WG442557</b> |      |                |            |        |        |       |       |     |       |       |     |       |      |
| WG442557ICB     | ICB  | 02/27/18 11:23 |            |        |        | U     | mg/L  |     | -1.5  | 1.5   |     |       |      |
| WG442557ICV     | ICV  | 02/27/18 11:23 | WI170807-5 | 55.165 |        | 59.99 | mg/L  | 109 | 90    | 110   |     |       |      |
| WG442557LFB1    | LFB  | 02/27/18 13:16 | WI171229-5 | 30.03  |        | 31.97 | mg/L  | 106 | 90    | 110   |     |       |      |
| L42845-05AS     | AS   | 02/27/18 13:18 | WI171229-5 | 30.03  | 52.9   | 81.21 | mg/L  | 94  | 90    | 110   |     |       |      |
| L42845-06DUP    | DUP  | 02/27/18 13:18 |            |        | 29.6   | 29.38 | mg/L  |     |       |       | 1   | 20    |      |
| WG442557LFB2    | LFB  | 02/27/18 13:19 | WI171229-5 | 30.03  |        | 32.7  | mg/L  | 109 | 90    | 110   |     |       |      |

**Conductivity @25C**

SM2510B

| ACZ ID          | Type | Analyzed       | PCN/SCN  | QC   | Sample | Found | Units    | Rec | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|----------|------|--------|-------|----------|-----|-------|-------|-----|-------|------|
| <b>WG442485</b> |      |                |          |      |        |       |          |     |       |       |     |       |      |
| WG442485LCSW2   | LCSW | 02/26/18 16:04 | PCN55151 | 1410 |        | 1450  | umhos/cm | 103 | 90    | 110   |     |       |      |
| WG442485LCSW5   | LCSW | 02/26/18 18:15 | PCN55151 | 1410 |        | 1430  | umhos/cm | 101 | 90    | 110   |     |       |      |
| WG442485LCSW8   | LCSW | 02/26/18 20:57 | PCN55151 | 1410 |        | 1430  | umhos/cm | 101 | 90    | 110   |     |       |      |
| WG442485LCSW11  | LCSW | 02/27/18 0:15  | PCN55151 | 1410 |        | 1430  | umhos/cm | 101 | 90    | 110   |     |       |      |
| L42856-01DUP    | DUP  | 02/27/18 3:32  |          |      | 464    | 462   | umhos/cm |     |       |       | 0   | 20    |      |
| WG442485LCSW14  | LCSW | 02/27/18 3:37  | PCN55151 | 1410 |        | 1390  | umhos/cm | 99  | 90    | 110   |     |       |      |

**Cyanide, Total**

D7511-09

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC    | Sample | Found | Units | Rec | Lower  | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|-------|--------|-------|-------|-----|--------|-------|-----|-------|------|
| <b>WG442562</b> |      |                |            |       |        |       |       |     |        |       |     |       |      |
| WG442562ICV     | ICV  | 02/27/18 14:14 | WI180227-7 | .3006 |        | .315  | mg/L  | 105 | 90     | 110   |     |       |      |
| WG442562ICB     | ICB  | 02/27/18 14:16 |            |       |        | U     | mg/L  |     | -0.003 | 0.003 |     |       |      |
| WG442562LFB     | LFB  | 02/27/18 14:22 | WI180227-4 | .1    |        | .0966 | mg/L  | 97  | 84     | 116   |     |       |      |
| L42846-04AS     | AS   | 02/27/18 14:58 | WI180227-4 | .1    | U      | .0871 | mg/L  | 87  | 84     | 116   |     |       |      |
| L42846-04ASD    | ASD  | 02/27/18 15:00 | WI180227-4 | .1    | U      | .0979 | mg/L  | 98  | 84     | 116   | 12  | 20    |      |



Rio Algom Mining Company

ACZ Project ID: **L42846**

**Iron, dissolved**

M200.7 ICP

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC     | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|--------|--------|-------|-------|-----|-------|-------|-----|-------|------|
| <b>WG443025</b> |      |                |            |        |        |       |       |     |       |       |     |       |      |
| WG443025ICV     | ICV  | 03/07/18 20:26 | II180208-1 | 2      |        | 1.935 | mg/L  | 97  | 95    | 105   |     |       |      |
| WG443025ICB     | ICB  | 03/07/18 20:33 |            |        |        | U     | mg/L  |     | -0.06 | 0.06  |     |       |      |
| WG443025LFB     | LFB  | 03/07/18 20:46 | II180228-3 | 1.0011 |        | .977  | mg/L  | 98  | 85    | 115   |     |       |      |
| L42845-07AS     | AS   | 03/07/18 21:25 | II180228-3 | 1.0011 | .03    | 1.065 | mg/L  | 103 | 85    | 115   |     |       |      |
| L42845-07ASD    | ASD  | 03/07/18 21:28 | II180228-3 | 1.0011 | .03    | 1.028 | mg/L  | 100 | 85    | 115   | 4   | 20    |      |
| L42912-04AS     | AS   | 03/07/18 21:54 | II180228-3 | 1.0011 | U      | 1.017 | mg/L  | 102 | 85    | 115   |     |       |      |
| L42912-04ASD    | ASD  | 03/07/18 22:04 | II180228-3 | 1.0011 | U      | .961  | mg/L  | 96  | 85    | 115   | 6   | 20    |      |

**Lead, dissolved**

M200.8 ICP-MS

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC    | Sample | Found  | Units | Rec | Lower   | Upper  | RPD | Limit | Qual |
|-----------------|------|----------------|------------|-------|--------|--------|-------|-----|---------|--------|-----|-------|------|
| <b>WG442858</b> |      |                |            |       |        |        |       |     |         |        |     |       |      |
| WG442858ICV     | ICV  | 03/05/18 12:46 | MS180219-2 | .05   |        | .05384 | mg/L  | 108 | 90      | 110    |     |       |      |
| WG442858ICB     | ICB  | 03/05/18 12:49 |            |       |        | U      | mg/L  |     | -0.0003 | 0.0003 |     |       |      |
| WG442858LFB     | LFB  | 03/05/18 12:52 | MS180302-2 | .0496 |        | .04956 | mg/L  | 100 | 85      | 115    |     |       |      |
| L42852-03AS     | AS   | 03/05/18 13:52 | MS180302-2 | .248  | U      | .2421  | mg/L  | 98  | 70      | 130    |     |       |      |
| L42852-03ASD    | ASD  | 03/05/18 13:55 | MS180302-2 | .248  | U      | .2423  | mg/L  | 98  | 70      | 130    | 0   | 20    |      |

**Magnesium, dissolved**

M200.7 ICP

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC       | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|----------|--------|-------|-------|-----|-------|-------|-----|-------|------|
| <b>WG443025</b> |      |                |            |          |        |       |       |     |       |       |     |       |      |
| WG443025ICV     | ICV  | 03/07/18 20:26 | II180208-1 | 100      |        | 98.79 | mg/L  | 99  | 95    | 105   |     |       |      |
| WG443025ICB     | ICB  | 03/07/18 20:33 |            |          |        | U     | mg/L  |     | -0.6  | 0.6   |     |       |      |
| WG443025LFB     | LFB  | 03/07/18 20:46 | II180228-3 | 50.05743 |        | 45.94 | mg/L  | 92  | 85    | 115   |     |       |      |
| L42845-07AS     | AS   | 03/07/18 21:25 | II180228-3 | 50.05743 | 46.7   | 91.01 | mg/L  | 89  | 85    | 115   |     |       |      |
| L42845-07ASD    | ASD  | 03/07/18 21:28 | II180228-3 | 50.05743 | 46.7   | 90.89 | mg/L  | 88  | 85    | 115   | 0   | 20    |      |
| L42912-04AS     | AS   | 03/07/18 21:54 | II180228-3 | 50.05743 | 20     | 65.68 | mg/L  | 91  | 85    | 115   |     |       |      |
| L42912-04ASD    | ASD  | 03/07/18 22:04 | II180228-3 | 50.05743 | 20     | 65.51 | mg/L  | 91  | 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 |
|-----------------|------|----------------|------------|--------|--------|-------|-------|-----|---------|--------|-----|-------|------|
| <b>WG442858</b> |      |                |            |        |        |       |       |     |         |        |     |       |      |
| WG442858ICV     | ICV  | 03/05/18 12:46 | MS180219-2 | .02006 |        | .0195 | mg/L  | 97  | 90      | 110    |     |       |      |
| WG442858ICB     | ICB  | 03/05/18 12:49 |            |        |        | U     | mg/L  |     | -0.0015 | 0.0015 |     |       |      |
| WG442858LFB     | LFB  | 03/05/18 12:52 | MS180302-2 | .0501  |        | .0483 | mg/L  | 96  | 85      | 115    |     |       |      |
| L42804-03AS     | AS   | 03/05/18 13:08 | MS180302-2 | .0501  | .1505  | .1982 | mg/L  | 95  | 70      | 130    |     |       |      |
| L42804-03ASD    | ASD  | 03/05/18 13:11 | MS180302-2 | .0501  | .1505  | .1975 | mg/L  | 94  | 70      | 130    | 0   | 20    |      |
| L42852-03AS     | AS   | 03/05/18 13:52 | MS180302-2 | .2505  | U      | .2415 | mg/L  | 96  | 70      | 130    |     |       |      |
| L42852-03ASD    | ASD  | 03/05/18 13:55 | MS180302-2 | .2505  | U      | .2418 | mg/L  | 97  | 70      | 130    | 0   | 20    |      |

Rio Algom Mining Company

ACZ Project ID: **L42846**

**Nickel, dissolved**

M200.8 ICP-MS

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC    | Sample | Found  | Units | Rec | Lower   | Upper  | RPD | Limit | Qual |
|-----------------|------|----------------|------------|-------|--------|--------|-------|-----|---------|--------|-----|-------|------|
| <b>WG442858</b> |      |                |            |       |        |        |       |     |         |        |     |       |      |
| WG442858ICV     | ICV  | 03/05/18 12:46 | MS180219-2 | .05   |        | .05197 | mg/L  | 104 | 90      | 110    |     |       |      |
| WG442858ICB     | ICB  | 03/05/18 12:49 |            |       |        | U      | mg/L  |     | -0.0018 | 0.0018 |     |       |      |
| WG442858LFB     | LFB  | 03/05/18 12:52 | MS180302-2 | .0501 |        | .0483  | mg/L  | 96  | 85      | 115    |     |       |      |
| L42804-03AS     | AS   | 03/05/18 13:08 | MS180302-2 | .0501 | .0056  | .04586 | mg/L  | 80  | 70      | 130    |     |       |      |
| L42804-03ASD    | ASD  | 03/05/18 13:11 | MS180302-2 | .0501 | .0056  | .04609 | mg/L  | 81  | 70      | 130    | 1   | 20    |      |
| L42852-03AS     | AS   | 03/05/18 13:52 | MS180302-2 | .2505 | .003   | .2155  | mg/L  | 85  | 70      | 130    |     |       |      |
| L42852-03ASD    | ASD  | 03/05/18 13:55 | MS180302-2 | .2505 | .003   | .2196  | mg/L  | 86  | 70      | 130    | 2   | 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 |
|-----------------|------|----------------|-------------|-------|--------|-------|-------|-----|-------|-------|-----|-------|------|
| <b>WG443191</b> |      |                |             |       |        |       |       |     |       |       |     |       |      |
| WG443191ICV     | ICV  | 03/09/18 21:50 | WI180301-7  | 2.416 |        | 2.425 | mg/L  | 100 | 90    | 110   |     |       |      |
| WG443191ICB     | ICB  | 03/09/18 21:51 |             |       |        | U     | mg/L  |     | -0.02 | 0.02  |     |       |      |
| <b>WG443194</b> |      |                |             |       |        |       |       |     |       |       |     |       |      |
| WG443194LFB1    | LFB  | 03/09/18 23:16 | WI180103-12 | 2     |        | 1.966 | mg/L  | 98  | 90    | 110   |     |       |      |
| L42845-01AS     | AS   | 03/09/18 23:18 | WI180103-12 | 2     | 1.33   | 3.273 | mg/L  | 97  | 90    | 110   |     |       |      |
| L42845-02DUP    | DUP  | 03/09/18 23:21 |             |       | 1.18   | 1.18  | mg/L  |     |       |       | 0   | 20    |      |
| L42846-04AS     | AS   | 03/09/18 23:38 | WI180103-12 | 2     | .26    | 2.292 | mg/L  | 102 | 90    | 110   |     |       |      |
| WG443194LFB2    | LFB  | 03/09/18 23:56 | WI180103-12 | 2     |        | 1.938 | mg/L  | 97  | 90    | 110   |     |       |      |
| L42915-01DUP    | DUP  | 03/10/18 0:12  |             |       | 6.67   | 6.653 | mg/L  |     |       |       | 0   | 20    |      |

**pH (lab)**

SM4500H+ B

| ACZ ID          | Type | Analyzed       | PCN/SCN  | QC   | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|----------|------|--------|-------|-------|-----|-------|-------|-----|-------|------|
| <b>WG442485</b> |      |                |          |      |        |       |       |     |       |       |     |       |      |
| WG442485LCSW1   | LCSW | 02/26/18 16:02 | PCN54162 | 6.01 |        | 6.1   | units | 101 | 5.9   | 6.1   |     |       |      |
| WG442485LCSW4   | LCSW | 02/26/18 18:13 | PCN54162 | 6.01 |        | 6.1   | units | 101 | 5.9   | 6.1   |     |       |      |
| WG442485LCSW7   | LCSW | 02/26/18 20:55 | PCN54162 | 6.01 |        | 6.1   | units | 101 | 5.9   | 6.1   |     |       |      |
| WG442485LCSW10  | LCSW | 02/27/18 0:13  | PCN54162 | 6.01 |        | 6.1   | units | 101 | 5.9   | 6.1   |     |       |      |
| L42856-01DUP    | DUP  | 02/27/18 3:32  |          |      | 8.3    | 8.3   | units |     |       |       | 0   | 20    |      |
| WG442485LCSW13  | LCSW | 02/27/18 3:35  | PCN54162 | 6.01 |        | 6.1   | units | 101 | 5.9   | 6.1   |     |       |      |

**Potassium, dissolved**

M200.7 ICP

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC       | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|----------|--------|-------|-------|-----|-------|-------|-----|-------|------|
| <b>WG443025</b> |      |                |            |          |        |       |       |     |       |       |     |       |      |
| WG443025ICV     | ICV  | 03/07/18 20:26 | II180208-1 | 20       |        | 19.94 | mg/L  | 100 | 95    | 105   |     |       |      |
| WG443025ICB     | ICB  | 03/07/18 20:33 |            |          |        | U     | mg/L  |     | -0.6  | 0.6   |     |       |      |
| WG443025LFB     | LFB  | 03/07/18 20:46 | II180228-3 | 100.0094 |        | 97.85 | mg/L  | 98  | 85    | 115   |     |       |      |
| L42845-07AS     | AS   | 03/07/18 21:25 | II180228-3 | 100.0094 | 5      | 104.5 | mg/L  | 99  | 85    | 115   |     |       |      |
| L42845-07ASD    | ASD  | 03/07/18 21:28 | II180228-3 | 100.0094 | 5      | 104.3 | mg/L  | 99  | 85    | 115   | 0   | 20    |      |
| L42912-04AS     | AS   | 03/07/18 21:54 | II180228-3 | 100.0094 | 2.7    | 103.5 | mg/L  | 101 | 85    | 115   |     |       |      |
| L42912-04ASD    | ASD  | 03/07/18 22:04 | II180228-3 | 100.0094 | 2.7    | 102.8 | mg/L  | 100 | 85    | 115   | 1   | 20    |      |

Rio Algom Mining Company

ACZ Project ID: **L42846**

**Residue, Filterable (TDS) @180C**

SM2540C

| ACZ ID          | Type | Analyzed       | PCN/SCN  | QC  | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|----------|-----|--------|-------|-------|-----|-------|-------|-----|-------|------|
| <b>WG442435</b> |      |                |          |     |        |       |       |     |       |       |     |       |      |
| WG442435PBW     | PBW  | 02/24/18 11:55 |          |     |        | 10    | mg/L  |     | -20   | 20    |     |       |      |
| WG442435LCSW    | LCSW | 02/24/18 11:56 | PCN55381 | 260 |        | 262   | mg/L  | 101 | 80    | 120   |     |       |      |
| L42846-04DUP    | DUP  | 02/24/18 12:24 |          |     | 852    | 856   | mg/L  |     |       |       | 0   | 10    |      |

**Selenium, dissolved**

SM 3114 B, AA-Hydride

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC      | Sample | Found | Units | Rec | Lower  | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|---------|--------|-------|-------|-----|--------|-------|-----|-------|------|
| <b>WG442488</b> |      |                |            |         |        |       |       |     |        |       |     |       |      |
| WG442488ICV     | ICV  | 02/28/18 13:50 | SE180226-2 | .025025 |        | .0245 | mg/L  | 98  | 90     | 110   |     |       |      |
| WG442488ICB     | ICB  | 02/28/18 13:52 |            |         |        | U     | mg/L  |     | -0.003 | 0.003 |     |       |      |
| WG442488LRB     | LRB  | 02/28/18 13:54 |            |         |        | U     | mg/L  |     | -0.003 | 0.003 |     |       |      |
| WG442488LFB     | LFB  | 02/28/18 13:56 | SE180226-4 | .02224  |        | .0207 | mg/L  | 93  | 85     | 115   |     |       |      |
| L42700-04LFM    | LFM  | 02/28/18 14:31 | SE180226-4 | .02224  | U      | .0193 | mg/L  | 87  | 85     | 115   |     |       |      |
| L42700-04LFMD   | LFMD | 02/28/18 14:33 | SE180226-4 | .02224  | U      | .0195 | mg/L  | 88  | 85     | 115   | 1   | 20    |      |
| <b>WG442489</b> |      |                |            |         |        |       |       |     |        |       |     |       |      |
| WG442489LRB     | LRB  | 02/28/18 15:06 |            |         |        | U     | mg/L  |     | -0.003 | 0.003 |     |       |      |
| WG442489LFB     | LFB  | 02/28/18 15:08 | SE180226-4 | .02224  |        | .0212 | mg/L  | 95  | 85     | 115   |     |       |      |
| L42852-01LFM    | LFM  | 02/28/18 15:39 | SE180226-4 | .02224  | .0642  | .0823 | mg/L  | 81  | 85     | 115   |     |       | M2   |
| L42852-01LFMD   | LFMD | 02/28/18 15:41 | SE180226-4 | .02224  | .0642  | .0817 | mg/L  | 79  | 85     | 115   | 1   | 20    | M2   |

**Sodium, dissolved**

M200.7 ICP

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC       | Sample | Found  | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|----------|--------|--------|-------|-----|-------|-------|-----|-------|------|
| <b>WG443025</b> |      |                |            |          |        |        |       |     |       |       |     |       |      |
| WG443025ICV     | ICV  | 03/07/18 20:26 | II180208-1 | 100      |        | 100.88 | mg/L  | 101 | 95    | 105   |     |       |      |
| WG443025ICB     | ICB  | 03/07/18 20:33 |            |          |        | U      | mg/L  |     | -0.6  | 0.6   |     |       |      |
| WG443025LFB     | LFB  | 03/07/18 20:46 | II180228-3 | 100.0062 |        | 99.22  | mg/L  | 99  | 85    | 115   |     |       |      |
| L42845-07AS     | AS   | 03/07/18 21:25 | II180228-3 | 100.0062 | 255    | 347.5  | mg/L  | 92  | 85    | 115   |     |       |      |
| L42845-07ASD    | ASD  | 03/07/18 21:28 | II180228-3 | 100.0062 | 255    | 348.9  | mg/L  | 94  | 85    | 115   | 0   | 20    |      |
| L42912-04AS     | AS   | 03/07/18 21:54 | II180228-3 | 100.0062 | 7.4    | 108.6  | mg/L  | 101 | 85    | 115   |     |       |      |
| L42912-04ASD    | ASD  | 03/07/18 22:04 | II180228-3 | 100.0062 | 7.4    | 108.4  | mg/L  | 101 | 85    | 115   | 0   | 20    |      |

**Sulfate**

D516-02/-07 - Turbidimetric

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|----|--------|-------|-------|-----|-------|-------|-----|-------|------|
| <b>WG442616</b> |      |                |            |    |        |       |       |     |       |       |     |       |      |
| WG442616ICB     | ICB  | 02/28/18 11:17 |            |    |        | U     | mg/L  |     | -3    | 3     |     |       |      |
| WG442616ICV     | ICV  | 02/28/18 11:17 | WI180222-2 | 20 |        | 19.4  | mg/L  | 97  | 90    | 110   |     |       |      |
| WG442616LFB     | LFB  | 02/28/18 11:33 | WI171212-5 | 10 |        | 10.5  | mg/L  | 105 | 90    | 110   |     |       |      |
| L42828-02AS     | AS   | 02/28/18 11:33 | WI171212-5 | 10 | U      | 8.7   | mg/L  | 87  | 90    | 110   |     |       | M2   |
| L42885-02DUP    | DUP  | 02/28/18 11:35 |            |    | U      | U     | mg/L  |     |       |       | 0   | 20    | RA   |
| L42885-03AS     | AS   | 02/28/18 11:35 | WI171212-5 | 10 | U      | 10.8  | mg/L  | 108 | 90    | 110   |     |       |      |
| L42828-01DUP    | DUP  | 02/28/18 11:39 |            |    | 137    | 138   | mg/L  |     |       |       | 1   | 20    |      |

Rio Algom Mining Company

ACZ Project ID: **L42846**

**Uranium, dissolved**

M200.8 ICP-MS

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC  | Sample | Found  | Units | Rec | Lower   | Upper  | RPD | Limit | Qual |
|-----------------|------|----------------|------------|-----|--------|--------|-------|-----|---------|--------|-----|-------|------|
| <b>WG442858</b> |      |                |            |     |        |        |       |     |         |        |     |       |      |
| WG442858ICV     | ICV  | 03/05/18 12:46 | MS180219-2 | .05 |        | .05253 | mg/L  | 105 | 90      | 110    |     |       |      |
| WG442858ICB     | ICB  | 03/05/18 12:49 |            |     |        | U      | mg/L  |     | -0.0003 | 0.0003 |     |       |      |
| WG442858LFB     | LFB  | 03/05/18 12:52 | MS180302-2 | .05 |        | .04996 | mg/L  | 100 | 85      | 115    |     |       |      |
| L42804-03AS     | AS   | 03/05/18 13:08 | MS180302-2 | .05 | .0078  | .06367 | mg/L  | 112 | 70      | 130    |     |       |      |
| L42804-03ASD    | ASD  | 03/05/18 13:11 | MS180302-2 | .05 | .0078  | .0638  | mg/L  | 112 | 70      | 130    | 0   | 20    |      |
| L42852-03AS     | AS   | 03/05/18 13:52 | MS180302-2 | .25 | .0972  | .35755 | mg/L  | 104 | 70      | 130    |     |       |      |
| L42852-03ASD    | ASD  | 03/05/18 13:55 | MS180302-2 | .25 | .0972  | .3585  | mg/L  | 105 | 70      | 130    | 0   | 20    |      |

Rio Algom Mining Company

ACZ Project ID: **L42846**

| ACZ ID           | WORKNUM  | PARAMETER           | METHOD                      | QUAL | DESCRIPTION   |
|------------------|----------|---------------------|-----------------------------|------|---|
| <b>L42846-01</b> | WG442616 | Sulfate             | D516-02/-07 - Turbidimetric | M2   | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.   |
| <b>L42846-02</b> | WG442485 | Conductivity @25C   | SM2510B                     | ZW   | Method deviation. The sample was centrifuged prior to analysis due to high solid content.   |
|                  | WG442489 | Selenium, dissolved | SM 3114 B, AA-Hydride       | D1   | Sample required dilution due to matrix.   |
|                  |          |                     | SM 3114 B, AA-Hydride       | DC   | Sample required dilution. Non-target analyte exceeded calibration range.  |
|                  |          |                     | SM 3114 B, AA-Hydride       | M2   | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.   |
|                  | WG442616 | Sulfate             | D516-02/-07 - Turbidimetric | M2   | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.   |
|                  | WG442485 | Total Alkalinity    | SM2320B - Titration         | ZW   | Method deviation. The sample was centrifuged prior to analysis due to high solid content.   |
| <b>L42846-03</b> | WG442489 | Selenium, dissolved | SM 3114 B, AA-Hydride       | M2   | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.   |
|                  | WG442616 | Sulfate             | D516-02/-07 - Turbidimetric | M2   | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.   |
| <b>L42846-04</b> | WG442485 | Conductivity @25C   | SM2510B                     | ZW   | Method deviation. The sample was centrifuged prior to analysis due to high solid content.   |
|                  |          | pH                  | SM4500H+ B                  | ZW   | Method deviation. The sample was centrifuged prior to analysis due to high solid content.   |
|                  | WG442489 | Selenium, dissolved | SM 3114 B, AA-Hydride       | M2   | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.   |
|                  | WG442616 | Sulfate             | D516-02/-07 - Turbidimetric | RA   | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL). |
|                  | WG442485 | Total Alkalinity    | SM2320B - Titration         | ZW   | Method deviation. The sample was centrifuged prior to analysis due to high solid content.   |
|                  |          |                     |                             |      |   |

**Rio Algom Mining Company**

Project ID: 4502696253

Sample ID: 31-61 ALL

Locator:

ACZ Sample ID: **L42846-01**

Date Sampled: 02/20/18 10:41

Date Received: 02/22/18

Sample Matrix: Ground Water

Gross Alpha, dissolved

Prep Method:

M9310

| Parameter              | Measure Date  | Prep Date | Result | Error(+/-) | LLD | Units | XQ | Analyst |
|------------------------|---------------|-----------|--------|------------|-----|-------|----|---------|
| Gross Alpha, dissolved | 03/02/18 0:10 |           | 320    | 98         | 280 | pCi/L |    | leb     |

Lead 210, dissolved

Prep Method:

EICHROM, OTW01

| Parameter           | Measure Date   | Prep Date | Result | Error(+/-) | LLD | Units | XQ | Analyst |
|---------------------|----------------|-----------|--------|------------|-----|-------|----|---------|
| Lead 210, dissolved | 03/07/18 15:50 |           | 11     | 4.7        | 15  | pCi/L | *  | jljg    |

Radium 226, dissolved

Prep Method:

M903.1

| Parameter             | Measure Date  | Prep Date | Result | Error(+/-) | LLD  | Units | XQ | Analyst |
|-----------------------|---------------|-----------|--------|------------|------|-------|----|---------|
| Radium 226, dissolved | 03/15/18 0:30 |           | 0.19   | 0.09       | 0.14 | pCi/L |    | leb     |

Radium 228, dissolved

Prep Method:

M9320

| Parameter             | Measure Date   | Prep Date | Result | Error(+/-) | LLD  | Units | XQ | Analyst |
|-----------------------|----------------|-----------|--------|------------|------|-------|----|---------|
| Radium 228, dissolved | 03/09/18 15:39 |           | 0.99   | 0.6        | 0.57 | pCi/L |    | jljg    |

Thorium 230, dissolved

Prep Method:

ESM 4506

| Parameter              | Measure Date  | Prep Date | Result | Error(+/-) | LLD | Units | XQ | Analyst |
|------------------------|---------------|-----------|--------|------------|-----|-------|----|---------|
| Thorium 230, dissolved | 03/09/18 0:14 |           | -0.11  | 0.42       | 1.1 | pCi/L | *  | djc     |

**Rio Algom Mining Company**

Project ID: 4502696253

Sample ID: 31-65 ALL

Locator:

ACZ Sample ID: **L42846-02**

Date Sampled: 02/20/18 13:02

Date Received: 02/23/18

Sample Matrix: Ground Water

Gross Alpha, dissolved

Prep Method:

M9310

| Parameter              | Measure Date  | Prep Date | Result | Error(+/-) | LLD | Units | XQ | Analyst |
|------------------------|---------------|-----------|--------|------------|-----|-------|----|---------|
| Gross Alpha, dissolved | 03/02/18 0:11 |           | 120    | 81         | 190 | pCi/L |    | leb     |

Lead 210, dissolved

Prep Method:

EICHROM, OTW01

| Parameter           | Measure Date   | Prep Date | Result | Error(+/-) | LLD | Units | XQ | Analyst |
|---------------------|----------------|-----------|--------|------------|-----|-------|----|---------|
| Lead 210, dissolved | 03/07/18 15:50 |           | 4.1    | 1.4        | 3.4 | pCi/L | *  | jljg    |

Radium 226, dissolved

Prep Method:

M903.1

| Parameter             | Measure Date  | Prep Date | Result | Error(+/-) | LLD | Units | XQ | Analyst |
|-----------------------|---------------|-----------|--------|------------|-----|-------|----|---------|
| Radium 226, dissolved | 03/16/18 0:14 |           | 0.18   | 0.07       | 0.1 | pCi/L |    | tr      |

Radium 228, dissolved

Prep Method:

M9320

| Parameter             | Measure Date   | Prep Date | Result | Error(+/-) | LLD  | Units | XQ | Analyst |
|-----------------------|----------------|-----------|--------|------------|------|-------|----|---------|
| Radium 228, dissolved | 03/09/18 15:39 |           | 1.2    | 0.67       | 0.63 | pCi/L |    | jljg    |

Thorium 230, dissolved

Prep Method:

ESM 4506

| Parameter              | Measure Date  | Prep Date | Result | Error(+/-) | LLD | Units | XQ | Analyst |
|------------------------|---------------|-----------|--------|------------|-----|-------|----|---------|
| Thorium 230, dissolved | 03/09/18 0:15 |           | -0.18  | 0.48       | 1.4 | pCi/L | *  | djc     |

**Rio Algom Mining Company**

Project ID: 4502696253

Sample ID: 19-77 TRB

Locator:

ACZ Sample ID: **L42846-03**

Date Sampled: 02/21/18 11:00

Date Received: 02/23/18

Sample Matrix: Ground Water

Gross Alpha - Corrected  
Calculation

Prep Method:

| Parameter               | Measure Date  | Prep Date | Result | Error(+/-) | LLD | Units | XQ | Analyst |
|-------------------------|---------------|-----------|--------|------------|-----|-------|----|---------|
| Gross Alpha - Corrected | 03/22/18 9:57 |           | 6.4    |            |     | pCi/L |    | calc    |

Gross Alpha, dissolved  
M9310

Prep Method:

| Parameter              | Measure Date  | Prep Date | Result | Error(+/-) | LLD | Units | XQ | Analyst |
|------------------------|---------------|-----------|--------|------------|-----|-------|----|---------|
| Gross Alpha, dissolved | 03/02/18 0:12 |           | 14     | 14         | 29  | pCi/L |    | leb     |

Lead 210, dissolved  
EICHROM, OTW01

Prep Method:

| Parameter           | Measure Date   | Prep Date | Result | Error(+/-) | LLD | Units | XQ | Analyst |
|---------------------|----------------|-----------|--------|------------|-----|-------|----|---------|
| Lead 210, dissolved | 03/07/18 15:50 |           | 5.5    | 1.3        | 2.9 | pCi/L | *  | jlg     |

Radium 226, dissolved  
M903.1

Prep Method:

| Parameter             | Measure Date  | Prep Date | Result | Error(+/-) | LLD  | Units | XQ | Analyst |
|-----------------------|---------------|-----------|--------|------------|------|-------|----|---------|
| Radium 226, dissolved | 03/16/18 0:15 |           | 0.37   | 0.12       | 0.11 | pCi/L |    | tr      |

Radium 228, dissolved  
M9320

Prep Method:

| Parameter             | Measure Date   | Prep Date | Result | Error(+/-) | LLD | Units | XQ | Analyst |
|-----------------------|----------------|-----------|--------|------------|-----|-------|----|---------|
| Radium 228, dissolved | 03/09/18 15:39 |           | 0.51   | 0.59       | 0.6 | pCi/L |    | jlg     |

Thorium 230, dissolved  
ESM 4506

Prep Method:

| Parameter              | Measure Date  | Prep Date | Result | Error(+/-) | LLD  | Units | XQ | Analyst |
|------------------------|---------------|-----------|--------|------------|------|-------|----|---------|
| Thorium 230, dissolved | 03/09/18 0:17 |           | -0.11  | 0.25       | 0.58 | pCi/L | *  | djc     |



**Rio Algom Mining Company**

Project ID: 4502696253

Sample ID: 5-02 KD

Locator:

ACZ Sample ID: **L42846-04**

Date Sampled: 02/21/18 14:10

Date Received: 02/23/18

Sample Matrix: Ground Water

Gross Alpha - Corrected  
Calculation

Prep Method:

| Parameter               | Measure Date  | Prep Date | Result | Error(+/-) | LLD | Units | XQ | Analyst |
|-------------------------|---------------|-----------|--------|------------|-----|-------|----|---------|
| Gross Alpha - Corrected | 03/22/18 9:57 |           | 1.2    |            |     | pCi/L |    | calc    |

Gross Alpha, dissolved  
M9310

Prep Method:

| Parameter              | Measure Date  | Prep Date | Result | Error(+/-) | LLD | Units | XQ | Analyst |
|------------------------|---------------|-----------|--------|------------|-----|-------|----|---------|
| Gross Alpha, dissolved | 03/02/18 0:14 |           | 2.1    | 3.6        | 12  | pCi/L |    | leb     |

Lead 210, dissolved  
EICHROM, OTW01

Prep Method:

| Parameter           | Measure Date   | Prep Date | Result | Error(+/-) | LLD | Units | XQ | Analyst |
|---------------------|----------------|-----------|--------|------------|-----|-------|----|---------|
| Lead 210, dissolved | 03/07/18 15:50 |           | 2.4    | 1.4        | 3.4 | pCi/L | *  | jlg     |

Radium 226, dissolved  
M903.1

Prep Method:

| Parameter             | Measure Date  | Prep Date | Result | Error(+/-) | LLD  | Units | XQ | Analyst |
|-----------------------|---------------|-----------|--------|------------|------|-------|----|---------|
| Radium 226, dissolved | 03/16/18 0:17 |           | 0.64   | 0.15       | 0.08 | pCi/L |    | tr      |

Radium 228, dissolved  
M9320

Prep Method:

| Parameter             | Measure Date   | Prep Date | Result | Error(+/-) | LLD  | Units | XQ | Analyst |
|-----------------------|----------------|-----------|--------|------------|------|-------|----|---------|
| Radium 228, dissolved | 03/09/18 15:39 |           | 0.33   | 0.76       | 0.79 | pCi/L |    | jlg     |

Thorium 230, dissolved  
ESM 4506

Prep Method:

| Parameter              | Measure Date  | Prep Date | Result | Error(+/-) | LLD  | Units | XQ | Analyst |
|------------------------|---------------|-----------|--------|------------|------|-------|----|---------|
| Thorium 230, dissolved | 03/09/18 0:18 |           | -0.34  | 0.34       | 0.82 | pCi/L | *  | djc     |

**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. |
|---|-------------------------------------|

**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:

<http://www.acz.com/public/extquallist.pdf>

Rio Algom Mining Company

ACZ Project ID: **L42846**

**Gross Alpha, dissolved** M9310 **Units: pCi/L**

| ACZ ID          | Type    | Analyzed | PCN/SCN    | QC  | Sample | Error | LLD | Found | Error | LLD | Rec | Lower | Upper | RPD/RER | Limit | Qual |
|-----------------|---------|----------|------------|-----|--------|-------|-----|-------|-------|-----|-----|-------|-------|---------|-------|------|
| <b>WG442910</b> |         |          |            |     |        |       |     |       |       |     |     |       |       |         |       |      |
| WG442539PBW     | PBW     | 03/02/18 |            |     |        |       |     | 1.4   | 1.5   | 3.3 |     |       | 6.6   |         |       |      |
| WG442539LCSW    | LCSW    | 03/02/18 | RC180131-1 | 100 |        |       |     | 100   | 8.6   | 4.7 | 100 | 67    | 144   |         |       |      |
| L42858-03DUP    | DUP-RER | 03/02/18 |            |     | 2.2    | 1.8   | 2.7 | 4.9   | 2.2   | 6.1 |     |       |       | 0.95    | 2     |      |
| L42858-05DUP    | DUP-RER | 03/02/18 |            |     | 1.2    | 1.4   | 5.8 | 4.1   | 2     | 5.8 |     |       |       | 1.19    | 2     |      |
| L42867-01MS     | MS      | 03/02/18 | RC180131-1 | 100 | 4.8    | 2.8   | 12  | 89    | 10    | 12  | 84  | 67    | 144   |         |       |      |

**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 |
|-----------------|---------|----------|----------|-------|--------|-------|-----|-------|-------|-----|-----|-------|-------|---------|-------|------|
| <b>WG442917</b> |         |          |          |       |        |       |     |       |       |     |     |       |       |         |       |      |
| WG442538LCSW    | LCSW    | 03/07/18 | PCN54283 | 98.33 |        |       |     | 110   | 3.3   | 3.1 | 112 | 55    | 121   |         |       |      |
| WG442538PBW     | PBW     | 03/07/18 |          |       |        |       |     | 2.5   | 1.1   | 2.8 |     |       | 5.6   |         |       |      |
| L42700-02DUP    | DUP-RER | 03/07/18 |          |       | 4      | 1.3   | 3.1 | 2.1   | 1.3   | 3.3 |     |       |       | 1.03    | 2     |      |
| L42700-05MS     | MS      | 03/07/18 | PCN54283 | 98.33 | 1.7    | 1.5   | 4   | 93    | 3.1   | 3.5 | 93  | 55    | 121   |         |       |      |
| L42852-02DUP    | DUP-RER | 03/07/18 |          |       | 3.4    | 1.3   | 3.2 | 2.3   | 1.4   | 3.6 |     |       |       | 0.58    | 2     |      |

Rio Algom Mining Company

ACZ Project ID: **L42846**

**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 |
|-----------------|---------|----------|----------|----|--------|-------|------|-------|-------|------|-----|-------|-------|---------|-------|------|
| <b>WG443515</b> |         |          |          |    |        |       |      |       |       |      |     |       |       |         |       |      |
| WG442807PBW     | PBW     | 03/15/18 |          |    |        |       |      | .04   | 0.08  | 0.25 |     |       | 0.5   |         |       |      |
| WG442807LCSW    | LCSW    | 03/15/18 | PCN54812 | 20 |        |       |      | 19    | 0.5   | 0.07 | 95  | 43    | 148   |         |       |      |
| L42845-01DUP    | DUP-RER | 03/15/18 |          |    | 0.42   | 0.11  | 0.33 | .33   | 0.09  | 0.12 |     |       |       | 0.63    | 2     |      |
| L42845-03DUP    | DUP-RER | 03/15/18 |          |    | 0.94   | 0.14  | 0.12 | .92   | 0.13  | 0.06 |     |       |       | 0.1     | 2     |      |
| L42845-05MS     | MS      | 03/15/18 | PCN54812 | 20 | 0.24   | 0.09  | 0.11 | 16    | 0.45  | 0.06 | 79  | 43    | 148   |         |       |      |
| <b>WG443753</b> |         |          |          |    |        |       |      |       |       |      |     |       |       |         |       |      |
| WG442932PBW     | PBW     | 03/16/18 |          |    |        |       |      | .07   | 0.06  | 0.14 |     |       | 0.28  |         |       |      |
| WG442932LCSW    | LCSW    | 03/16/18 | PCN54812 | 20 |        |       |      | 22    | 0.87  | 0.48 | 110 | 43    | 148   |         |       |      |
| L42834-01DUP    | DUP-RER | 03/16/18 |          |    | 0.49   | 0.11  | 0.08 | .68   | 0.18  | 0.2  |     |       |       | 0.9     | 2     |      |
| L42917-01DUP    | DUP-RER | 03/16/18 |          |    | 0.51   | 0.11  | 0.05 | .62   | 0.13  | 0.07 |     |       |       | 0.64    | 2     |      |
| L42917-02MS     | MS      | 03/16/18 | PCN54812 | 40 | 0.46   | 0.11  | 0.05 | 36    | 1     | 0.1  | 89  | 43    | 148   |         |       |      |

**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 |
|-----------------|---------|----------|----------|-----|--------|-------|------|-------|-------|------|-----|-------|-------|---------|-------|------|
| <b>WG443248</b> |         |          |          |     |        |       |      |       |       |      |     |       |       |         |       |      |
| WG442920PBW     | PBW     | 03/09/18 |          |     |        |       |      | .08   | 0.54  | 0.57 |     |       | 1.14  |         |       |      |
| WG442920LCSW    | LCSW    | 03/09/18 | PCN53179 | 8.9 |        |       |      | 9.1   | 1     | 0.61 | 102 | 47    | 123   |         |       |      |
| L42782-11DUP    | DUP-RER | 03/09/18 |          |     | 0.93   | 0.62  | 0.6  | -.24  | 0.6   | 0.65 |     |       |       | 1.36    | 2     |      |
| L42845-04DUP    | DUP-RER | 03/09/18 |          |     | 0.76   | 0.58  | 0.57 | .16   | 0.52  | 0.54 |     |       |       | 0.77    | 2     |      |
| L42846-03MS     | MS      | 03/09/18 | PCN53179 | 8.9 | 0.51   | 0.59  | 0.6  | 7.4   | 0.89  | 0.56 | 77  | 47    | 123   |         |       |      |

Rio Algom Mining Company

ACZ Project ID: **L42846**

**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 |
|-----------------|---------|----------|----------|-----|--------|-------|------|-------|-------|------|-----|-------|-------|---------|-------|------|
| <b>WG443276</b> |         |          |          |     |        |       |      |       |       |      |     |       |       |         |       |      |
| WG442483PBW     | PBW     | 03/09/18 |          |     |        |       |      | -.33  | 0.19  | 0.57 |     |       | 1.14  |         |       |      |
| WG442483LCSW    | LCSW    | 03/09/18 | PCN52270 | 200 |        |       |      | 200   | 5.2   | 0.71 | 100 | 91    | 126   |         |       |      |
| L42700-03DUP    | DUP-RER | 03/09/18 |          |     | 0.03   | 0.22  | 0.58 | -.12  | 0.2   | 0.63 |     |       |       | 0.5     | 2     |      |
| L42852-01DUP    | DUP-RER | 03/09/18 |          |     | -0.17  | 0.38  | 0.64 | -.13  | 0.49  | 0.68 |     |       |       | 0.06    | 2     |      |
| L42846-03MS     | MS      | 03/09/18 | PCN52270 | 200 | -0.11  | 0.25  | 0.58 | 190   | 4.9   | 0.63 | 95  | 91    | 126   |         |       |      |

**Rio Algom Mining Company**

ACZ Project ID: **L42846**

| ACZ ID           | WORKNUM  | PARAMETER              | METHOD         | QUAL | DESCRIPTION                             |
|------------------|----------|------------------------|----------------|------|---|
| <b>L42846-01</b> | WG442917 | Lead 210, dissolved    | EICHROM, OTW01 | D1   | Sample required dilution due to matrix. |
|                  | WG443276 | Thorium 230, dissolved | ESM 4506       | D1   | Sample required dilution due to matrix. |
| <b>L42846-02</b> | WG443276 | Thorium 230, dissolved | ESM 4506       | D1   | Sample required dilution due to matrix. |

**Rio Algom Mining Company**ACZ Project ID: **L42846**

## Radiochemistry

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

Lead 210, dissolved

EICHROM, OTW01

Thorium 230, dissolved

ESM 4506

**Rio Algom Mining Company**  
4502696253

ACZ Project ID: L42846  
Date Received: 02/22/2018 11:04  
Received By:  
Date Printed: 2/23/2018

**Receipt Verification**

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

**Samples/Containers**

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

NA indicates Not Applicable

**Chain of Custody Related Remarks**

**Client Contact Remarks**

**Shipping Containers**

| Cooler Id | Temp (°C) | Temp<br>Criteria (°C) | Rad (µR/Hr) | Custody Seal<br>Intact? |
|-----------|-----------|-----------------------|-------------|-------------------------|
| 5125      | 13.9      | NA                    | 14          | Yes                     |
| 5345      | 7.3       | NA                    | 14          | Yes                     |
| 4619      | 1.2       | <=6.0                 | 14          | Yes                     |
| 4764      | 2.4       | <=6.0                 | 15          | Yes                     |

Was ice present in the shipment container(s)?

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

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



**Rio Algom Mining Company**  
4502696253

ACZ Project ID: L42846  
Date Received: 02/22/2018 11:04  
Received By:  
Date Printed: 2/23/2018

<sup>1</sup> 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), Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).



Laboratories, Inc. L42846

CHAIN of CUSTODY

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

Report to:

Name: Kent Applegate  
Company: Rio Algom Mining LLC  
E-mail: Kent.KC.Applegate@bhpbilliton.com

Address: PO Box 218  
Grants, NM 87020  
Telephone: 1-505-287-8851

Copy of Report to:

Name: Clark Short/Angie Persico (both)  
Company: INTERA, INC.

E-mail: cshort@intera.com/apersico@intera.com  
Telephone: 505-246-1600 x1207

Invoice to:

Name: Gail Alexander  
Company: Rio Algom Mining LLC  
E-mail: Gail.Alexander@BHPBilliton.com

Address: PO Box 218  
Grants, NM 87020  
Telephone: 1-505-287-8851

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: Jana Tautz Sampler's Site Information State NM Zip code 87020 Time Zone MST

\*Sampler's Signature: Jana Tautz

\*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 #: 587140

PO#: 4502696253

Reporting state for compliance testing:

Check box if samples include NRC licensed material? ☐

| SAMPLE IDENTIFICATION |         |      | DATE:TIME | Matrix | # of Containers          | SAP-GW                              | NRC-ALL                             | NRC-KD                              | NRC-TRB                  |                          |                          |                          |                          |                          |                          |                          |                          |
|-----------------------|---------|------|-----------|--------|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 31-61 ALL             | 2/20/18 | 1041 | GW        | 6      | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 31-65 ALL             | 2/20/18 | 1302 | GW        | 6      | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 19-77 TRB             | 2/21/18 | 1100 | GW        | 7      | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5-02 KD               | 2/21/18 | 1410 | GW        | 7      | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|                       |         |      |           |        |                          | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|                       |         |      |           |        |                          | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|                       |         |      |           |        |                          | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|                       |         |      |           |        |                          | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|                       |         |      |           |        |                          | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|                       |         |      |           |        |                          | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

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

REMARKS

RAML COC#: 17-40. Note different COC's may have different PO's. Shipment of 4 Coolers.

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

RELINQUISHED BY:

DATE:TIME

RECEIVED BY:

DATE:TIME

Jana Tautz 2/21/18 1000 J2 2/23/18 10.31

FRMAD050.06.14.14

White - Return with sample. Yellow - Retain for your records.