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## REPORT ON

# Geochemical Assessment of Potential Road Construction Material Meliadine Gold Project, Nunavut

**Submitted to:**

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REPORT



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### 1.0 INTRODUCTION

Agnico-Eagle Mines Ltd. (AEM) proposes to construct and operate an all weather road between Rankin Inlet and the Meliadine site (Figure 1). The northern part of the road is situated on Inuit Owned Land administered by the Kivalliq Inuit Association (KIA), while the southern part is on Commissioner's land held by the Government of Nunavut for the benefit of the Hamlet of Rankin Inlet.

The all-weather access road will be constructed and operated to service the proposed extension of the underground exploration and bulk sample program as well as provide access for the residents of Rankin inlet to Meliadine Lake and traditional land use areas (Figure 1).

Golder Associates Ltd. (Golder) initiated a geochemical characterization program for potential road construction material in July 2010. As there are no guidelines that apply specifically to quarry rock, the characterization was carried out following methods that apply to mining wastes for comparative purposes only, including INAC (1992) and MEND (2009) recommended methods. The objective of the program is to evaluate the chemical characteristics of rock and till that are targeted for use in road construction. Static testing methods were used to assess the chemical composition of the potential road building material, its potential to generate acid rock drainage (ARD) and its potential to leach metals (ML) to the receiving environment upon exposure to ambient conditions. Results of this static testing program are meant to guide the selection of appropriate material for road construction to minimize potential effects to the water quality of nearby lakes and streams.

This report discusses the static test results for rock and till from proposed quarry and borrow material locations along the road alignment. It describes the methods utilized as part of the static testing program and presents the interpreted test results. It is understood that results of this assessment will be used to guide the selection of the material that is environmentally suitable for use as road fill, with particular emphasis on potential acid generation and metal leaching that could affect water quality in nearby watercourses.

### 1.1 Regional and Site Geology

The following summary is adapted from various sources (Snowden (2008), Pincock, Allen & Holt (2008), Golder (2010a and b), and from visual observations in the field.

The Meliadine property is located in the Rankin Inlet Greenstone Belt of the Churchill Structural Province. This is an Archean, deformed and metamorphosed sequence of mafic volcanic, felsic pyroclastic, sedimentary rocks and gabbro sills. The Meliadine trend is defined by the regional Pyke Fault, a prominent high-strain fault zone which is northwest trending within the stratigraphy of the Archean Rankin Inlet Group. The Rankin Inlet Group was subjected to lower to middle greenschist facies metamorphism and multiple periods of deformation, including two identified periods of Archean and Proterozoic age. The Meliadine ore deposits are low-sulphide, gold-quartz vein deposits as per the geo-environmental classifications provided in Plumlee et al. (1999).



Regional geologic mapping indicates that the bedrock along the proposed alignment is dominated by the following rock types:

- Mafic volcanics and meta-sediments of the Rankin Inlet Group in the southern section to about two kilometre northeast of the Meliadine River;
- Schists of the Rankin Inlet Group north to Meliadine Lake;
- Archean felsic to intermediate volcanic and meta-sediment band trending east-northeast a few kilometres north of the Meliadine River; and,
- Proterozoic granites trending west-northwest through the mid section of the road.

The surface geology of the proposed road alignment comprises glacial (moraine), glaciofluvial (esker), and marine (delta and beach) deposits. Surface topography is low lying and gently to moderately sloping with topography flattening towards the Meliadine River into Rankin Inlet.

### 1.2 Previous Studies

In 2007, Comaplex Minerals Corporation (Comaplex) collected samples of potential construction material along the proposed road alignment, including bedrock from outcrops and glacial till from eskers at 10 and 12 locations, respectively. These samples were submitted for acid base accounting (ABA) and metal leach testing. Results indicate that the samples contain little sulphur but aluminum, arsenic, and copper, were found to leach from some samples of rock and till at concentrations greater than Canadian Environmental Quality Guidelines for the Protection of Aquatic Life (CCME 2007).

Approximately 17 potential rock quarry locations were identified by Golder (2010a) at bedrock outcrops along the proposed road alignment, including one large prospective gabbro outcrop near the town of Rankin Inlet (identified as R16<sup>1</sup>). The 10 potential locations identified by Comaplex are included in those identified by Golder.

The locations of potential quarry and borrow locations identified by both Comaplex and Golder are described in Section 2.1.

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<sup>1</sup> R16 was recently removed from the list of potential quarries due to the presence of archaeological sites.



## 2.0 SAMPLE COLLECTION AND TEST METHODS

Canadian guidelines (INAC 1992 and MEND 2009) recommend that the number of samples required for an appropriate volumetric representation of geochemical characteristics be based on the quantity of waste rock to be excavated for each lithology disturbed by mining activities. INAC (1992) recommends a minimum number of samples as a function of the tonnage of specific rock types. These recommendations are in line with the MEND (2009) guidelines presented in Table 1. These guidance documents suggest that minimum sample numbers be based on the tonnage and variability of material being assessed.

**Table 1: Suggested Initial Sampling Frequency Based on Tonnage (MEND 2009)**

| Mass of Each Separate Rock Type (tonnes) | Minimum Number of Samples |
|------------------------------------------|---------------------------|
| <10,000                                  | 3                         |
| <100,000                                 | 8                         |
| <1,000,000                               | 26                        |
| <10,000,000                              | 80                        |

The volume estimates for each proposed quarry/borrow source location were not available at the time of sampling to allow determination of an appropriate number of samples following MEND (2009) and INAC (1992) recommendations. As such, Golder collected 2 to 9 samples from each location, depending on its apparent size. Should the quarries footprint become much larger than the size of the outcrop, additional samples should be considered to verify if the trend identified herein continues beyond the area sampled.

### 2.1 Sample Collection

The current study includes 17 rock quarry locations identified by Golder (2010a) as well as the 12 borrow source (till) locations identified by Comaplex in 2007, at locations along the proposed road alignment. These locations are described in Table 2 and presented in Figure 1. In addition, four samples of crushed aggregate were collected from the existing Itivia quarry within the town of Rankin Inlet. Samples were collected in August 2010 by Jennifer Cole, P.Geol. (NT,NU) of Golder. In September 2010, AEM geology staff collected an additional 15 samples of esker material collected from two proposed borrow source locations on islands in Meliadine Lake (Figure 1).

Each rock sample was described in terms of rock type, sulphide mineralogy, metamorphism, alteration, and staining associated with sulphide mineral oxidation. Each sample consisted of a composite of 3 to 5 kilograms of fresh (relatively unweathered) rock collected from exposed outcrop.

Grab samples of till were collected from eskers using a metal shovel. Sample depth was approximately 50 cm. Each sample consisted of approximately 5 kg of till and was described in terms of texture and colour. Organic material and rock fragments (coarse gravel to cobble size) were avoided in the till samples.

All rock and till samples were forwarded to SGS Canada Inc. (SGS) of Lakefield, Ontario for geochemical testing as detailed in Section 2.2.



## MELIADINE ROAD MATERIAL GEOCHEMICAL ASSESSMENT

**Table 2: Summary of the Geochemical Sampling Locations**

| Quarry / Borrow Pit Location                    |                  |                 |          | Material Type     | Number of Samples Collected |
|-------------------------------------------------|------------------|-----------------|----------|-------------------|-----------------------------|
| Type                                            | Name             | Easting         | Northing |                   |                             |
| PROPOSED QUARRY LOCATIONS<br>(BEDROCK OUTCROPS) | Itivia           | in Rankin Inlet |          | crushed aggregate | 4                           |
|                                                 | R1               | 539585          | 6989222  | meta-sedimentary  | 3                           |
|                                                 | R2               | 543508          | 6983691  | mafic volcanic    | 3                           |
|                                                 | R5               | 544817          | 6981426  | granite           | 3                           |
|                                                 | R7               | 547593          | 6979642  | mafic volcanic    | 5                           |
|                                                 | R9               | 547899          | 6977652  | mafic volcanic    | 3                           |
|                                                 | R11              | 547861          | 6976006  | granite           | 5                           |
|                                                 | R14              | 547026          | 6974196  | mafic volcanic    | 5                           |
|                                                 | R16 <sup>2</sup> | 546961          | 6971947  | gabbro            | 9                           |
|                                                 | R17              | 545054          | 6971604  | mafic volcanic    | 3                           |
|                                                 | R19              | 543911          | 6970400  | mafic volcanic    | 3                           |
|                                                 | R82              | 547487          | 6977212  | mafic volcanic    | 3                           |
|                                                 | R280             | 544454          | 6981822  | granite           | 3                           |
|                                                 | R350             | 543755          | 6983078  | mafic volcanic    | 4                           |
|                                                 | R359             | 543764          | 6983360  | mafic volcanic    | 3                           |
|                                                 | T041             | 547666          | 6978227  | mafic volcanic    | 5                           |
|                                                 | T043             | 547548          | 6976957  | mafic volcanic    | 5                           |
|                                                 | T046             | 553066          | 6981335  | mafic volcanic    | 5                           |
| PROPOSED BORROW PIT LOCATIONS<br>(ESKER)        | B1A              | 539726          | 6988322  | glacial till      | 3                           |
|                                                 | B3               | 539345          | 6987505  | glacial till      | 3                           |
|                                                 | B5               | 540859          | 6985870  | glacial till      | 3                           |
|                                                 | B6A              | 542225          | 6984605  | glacial till      | 3                           |
|                                                 | B8               | 543575          | 6983992  | glacial till      | 3                           |
|                                                 | B10              | 545520          | 6980773  | glacial till      | 3                           |
|                                                 | B11A             | 546601          | 6979232  | glacial till      | 3                           |
|                                                 | B12              | 547583          | 6977067  | glacial till      | 3                           |
|                                                 | B13              | 547003          | 6974287  | glacial till      | 2                           |
|                                                 | B15              | 546229          | 6972497  | glacial till      | 3                           |
|                                                 | B18              | 546798          | 6971307  | glacial till      | 3                           |
|                                                 | B19              | 544398          | 6971261  | glacial till      | 3                           |
|                                                 | Island 1         | 542141*         | 6989658* | glacial till      | 9                           |
|                                                 | Island 2         | 542969*         | 6989347* | glacial till      | 6                           |

\*average of UTM coordinates provided by AEM for samples collected from each proposed borrow pit location

<sup>2</sup> R16 was recently removed from the list of potential quarries due to the presence of archaeological sites.



## 2.2 Analytical Test Methods

The test program incorporated a comprehensive set of standard geochemical methods to characterize the ARD/ML potential of the different material types expected to be utilized for road construction. The static testing program included the following components:

- Whole rock and trace element chemical composition;
- Potential to generate acidic drainage analyzed through acid base accounting (ABA) by the Modified Sobek method; and,
- Readily leachable metals through short-term metal leach testing by a modified version of the shake flask extraction (SFE; Modified ASTM D3987).

All analyses were performed at SGS. Geochemical characterization methods are discussed in the next sections.

### 2.2.1 Chemical Composition

The chemical composition of each sample was determined through whole rock and trace element analysis to determine the content of major rock forming elements and trace metals, respectively. This information is used to assess the variation in chemical composition by lithology and to identify parameters of potential environmental concern. Results for waste rock are compared to typical crustal abundances (Price 1997) for similar lithologies, while till results are compared against Canadian Soil Quality Guidelines (CEQG) for the Protection of Environmental and Human Health (industrial land use) (CCME 2007). The following components were included in the chemical analyses:

- Metals (including arsenic and selenium) by inductively coupled plasma-mass spectroscopy (ICP-MS), with samples extracted using a concentrated strong acid solution of perchloric, nitric, hydrochloric and hydrofluoric acids; and,
- Whole rock analysis for major metals by borate fusion / x-ray fluorescence (XRF).

### 2.2.2 Potential for Acid Rock Drainage

The potential of geologic material to oxidize and generate acidic drainage is evaluated through acid-base accounting (ABA). This test was conducted following the Modified Sobek method and included determination of the following parameters:

- Paste pH;
- Total sulphur by LECO furnace, (ASTM E 1915-01 methodology);
- Sulphide and sulphate sulphur;
- Total Carbon (TC as %C) and carbonate (as %C) by LECO furnace; and,
- Bulk neutralization potential (NP; by the 1996 Modified NP method (MEND 2009)).



The following sections describe neutralization potential (NP) and acid potential (AP) in terms of acid rock drainage prediction.

### **Neutralization Potential (NP)**

The NP is a bulk measurement of the acid-buffering capacity of a sample provided by various minerals of different reactivities and effective neutralization capacity. It is measured by digestion of a pulverized portion of the sample using a strong acid. This process consumes all minerals affected by the acid, including minerals that may not normally be reactive under ambient conditions and minerals that would not neutralize to pH-neutral conditions (such as silicate minerals; Blowes and Ptacek 1994). Because the type and occurrence of neutralizing minerals present in the sample will have a determining effect on whether the ARD potential of a sample will be realized, NP was evaluated using two different analytical techniques to more accurately determine the amount of available NP:

*1996 Modified NP Determination:* Represents the bulk NP of the sample, including contributions from some reactive aluminosilicate minerals, if present. It is calculated from the amount of base consumed to neutralize acid remaining from the sample acid-digested at room temperature. This test method is modified from the Standard (Sobek) NP method which more aggressively dissolves neutralization minerals and may thus overestimate NP because of the higher digestion temperature (boiling).

*Carbonate NP:* Represents the NP available from reactive carbonate minerals, including siderite and other divalent metal carbonates (which provide no net neutralization). It was calculated based on the carbonate ( $\text{CO}_3$ ) content of the sample, assuming all carbonate is in the form of carbonate minerals. Carbonate NP was calculated using the detection limit value for carbonate when these were measured as less than the method detection limit (MDL <0.005).

### **Acid Potential (AP)**

The AP is calculated from the sulphide sulphur content of the sample, on the basis that the entire sulphide content of the rock will oxidize to generate acid. The sulphide content of the sample is calculated as the difference between laboratory-measured total sulphur and sulphate sulphur.

Values of AP, NP and CaNP are reported as kg equivalent calcium carbonate per tonne of rock.

#### **2.2.2.1 ARD Screening Criteria**

For this study, ABA results were compared to Guidelines for Acid Rock Drainage Prediction in the North (INAC 1992). The suggested screening criteria for inferring ARD potential based on the net potential ratio (NPR) and net neutralization potential (NNP) are summarized in Table 3. The NPR is the ratio of NP to AP (or CaNP to AP for CaNPR) and NNP is the difference between NP (or CaNP) and AP.



**Table 3: Acid-Base Accounting Screening Criteria for Waste Rock (INAC 1992)**

| Potential for ARD | Initial Screening Criteria |                         | Description                                                           |
|-------------------|----------------------------|-------------------------|-----------------------------------------------------------------------|
| Likely            | $\text{NPR} < 1$           | $\text{NNP} < -20$      | Likely to generate acidity, unless sulphide minerals are non-reactive |
| Uncertain         | $1 < \text{NPR} < 3$       | $-20 < \text{NNP} < 20$ | Neither clearly acid generating nor acid consuming                    |
| None              | $\text{NPR} > 3$           | $\text{NNP} > 20$       | Acid consuming                                                        |

In evaluating the ARD potential of the waste material at this site, consideration was also given to the Prediction Manual for Drainage Chemistry from Sulphidic Geologic Materials (MEND 2009). According to MEND (2009), samples with NPR values between 1 and 2 are considered “possibly acid generating” if NP is insufficiently reactive or is depleted at a rate faster than the sulphide oxidation rate. Samples with NPR values greater than 2 have low potential to generate acid unless significant preferential exposure of sulphide along fracture planes, or extremely reactive sulphides in combination with insufficiently reactive NP.

For this assessment an NPR ratio of 3 or higher was used to define materials that have no potential to generate acid drainage (non-PAG).

### 2.2.3 Metal Leaching Potential

Metal leaching tests are used to assess the potential of the waste rock to release readily-soluble metals to the receiving environment by simulating interaction between water and solids.

Samples were subjected to short-term leach tests using a modified version of the shake flask extraction (Modified ASTM D3987). Crushed samples ( $< 9.5$  mm) were mixed with distilled water (4:1 solution to solid ratio) and the pulp was placed in a flask and shaken for 24 hours using a variable speed shaker table. Leachate was collected from the pump through a  $0.45\text{-}\mu\text{m}$  filter and analyzed for pH, sulphate, chloride, and dissolved metals.

The results of the short-term leach tests were screened against Metal Mining Effluent Regulations (MMER) (DFO 2006) and Canadian Environmental Quality Guidelines (CEQG) for the Protection of Aquatic Life (CCME 2007). These comparisons are an initial screening tool in the identification of potential constituents of concern for mine site water management planning. Short-term leach tests provide an estimate of which metals have a potential to leach from a particular material. However, actual drainage chemistry at site will almost certainly differ from short-term leach test results due to the inability of short-term leach tests to accurately simulate natural conditions, in particular transient processes such as sulphide oxidation. Short term leach test results are therefore only considered as indicators of potential constituents of interest rather than accurate representations of future drainage compositions.



### 2.2.4 QA/QC

The objective of a quality assurance/quality control (QA/QC) program is to assess sample representativeness and defensibility of reported results based on the level of accuracy and precision achieved during the study. Samples of rock and till collected by Golder were obtained using a consistent sampling procedure and sample size. Sampled material was bagged individually to avoid cross-contamination, sealed, numbered and sent to the analytical laboratory with chain-of-custody records.

The samples collected by AEM personnel were not part of the sampling QA/QC assessment. These samples were received by SGS in individual bags labelled with the unique sample identification number. Similar analytical methods were used on all solid samples to allow direct comparison of results.



### 3.0 GEOCHEMICAL CHARACTERIZATION RESULTS

Static test results for samples collected from proposed rock quarry and borrow source (esker) locations are discussed in the following sections. Tabulated results and figures are presented in Appendix A and laboratory analytical certificates are included in Appendix B.

Results are reported by proposed quarry or borrow source location.

#### 3.1 Chemical Composition

The results of chemical analyses are presented in Appendix A.1 as tables. Summary statistics are provided for each sample location, including: minimum, maximum, average, median, 75<sup>th</sup> percentile and standard deviation.

##### Bedrock Quarry Material

Major constituents are similar for all rock types and include silica, aluminum and iron as well as calcium in mafic volcanic rocks. Minor constituents include calcium, magnesium, potassium and sodium. Major oxides show little variation within each sample group as demonstrated by standard deviation values.

Trace metal composition is evaluated against the typical crustal abundance as defined by Price (1997) for comparison purposes only. Element concentrations that are greater than five times the typical crustal abundance are considered to be significantly enriched compared to typical crustal abundance. The results of the comparisons are summarized in Table 4.

There was little variation in trace element composition within each sample group with standard deviation values equal to or less than median values. Antimony, arsenic, beryllium, bismuth, chromium, copper and silver were found at concentrations exceeding five times typical crustal abundance for some sample groups. For most sample groups, elevated values are isolated and the median concentration for the sample group did not exceed five times crustal abundance.

**Table 4: Summary of Quarry Rock Chemical Composition**

| Proposed Location | Material Type     | Sample Count | Parameter Concentrations Greater than Five Times Typical Crustal Abundance (Price 1997) <sup>1,2</sup> |
|-------------------|-------------------|--------------|--------------------------------------------------------------------------------------------------------|
| Itivia            | crushed aggregate | 4            | <b>Cr</b>                                                                                              |
| R1                | meta-sedimentary  | 3            | <b>As, Bi</b>                                                                                          |
| R2                | mafic volcanic    | 3            | Ag, <b>Bi</b>                                                                                          |
| R5                | Granite           | 3            | Bi                                                                                                     |
| R7                | mafic volcanic    | 5            | <b>Bi</b>                                                                                              |
| R9                | mafic volcanic    | 3            | <b>Be, Bi</b>                                                                                          |
| R11               | Granite           | 5            | Bi                                                                                                     |
| R14               | mafic volcanic    | 5            | Bi, Mo                                                                                                 |
| R16               | Gabbro            | 9            | As, Bi, <b>Sb</b>                                                                                      |
| R17               | mafic volcanic    | 3            | <b>As, Bi, Sb</b>                                                                                      |
| R19               | mafic volcanic    | 3            | As, Bi, Sb                                                                                             |
| R82               | mafic volcanic    | 3            | <b>Bi</b>                                                                                              |
| R280              | Granite           | 3            | n.e.                                                                                                   |



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| Proposed Location | Material Type  | Sample Count | Parameter Concentrations Greater than Five Times Typical Crustal Abundance (Price 1997) <sup>1,2</sup> |
|-------------------|----------------|--------------|--------------------------------------------------------------------------------------------------------|
| R350              | mafic volcanic | 4            | n.e.                                                                                                   |
| R359              | mafic volcanic | 3            | Ag, Bi, Cu                                                                                             |
| T041              | mafic volcanic | 5            | Bi, <b>Mo</b>                                                                                          |
| T043              | mafic volcanic | 5            | Ag, <b>Bi</b> , Mo                                                                                     |
| T046              | mafic volcanic | 5            | <b>As</b> , Bi                                                                                         |

n.e. no exceedances

1- where at least one sample exceeds five times crustal abundance

2- bold values indicate parameters where median concentration exceed five times the stated typical crustal abundance

### Till (Escher) Material

Major constituents are similar for all till samples and include silica and aluminum with minor iron, sodium, calcium, magnesium, and potassium. Major oxides show little variation within each sample group as demonstrated by standard deviation values.

Trace metal composition was evaluated against CEQG Soil Quality Guidelines for the Protection of Environmental and Human Health, Industrial Land Use (CCME, 2007). The results of these comparisons are summarized in Table 5.

There was little variation in trace element composition within each sample group with standard deviation values equal to or less than median values. Arsenic, chromium, and nickel were found at concentrations exceeding CCME soil guidelines for some sample groups, including the calculated median concentrations of arsenic and chromium.

Table 5: Summary of Till (Escher) Chemical Composition

| Proposed Location | Sample Count | Parameter Concentrations Above CCME Industrial Soil Guideline <sup>1,2</sup> |
|-------------------|--------------|------------------------------------------------------------------------------|
| B1A               | 3            | <b>As, Cr</b>                                                                |
| B3                | 3            | <b>As, Cr</b>                                                                |
| B5                | 3            | <b>As, Cr</b>                                                                |
| B6A               | 3            | As, <b>Cr</b>                                                                |
| B8                | 3            | <b>As, Cr, Ni</b>                                                            |
| B10               | 3            | <b>Cr</b>                                                                    |
| B11A              | 3            | <b>Cr</b>                                                                    |
| B12               | 3            | <b>Cr</b>                                                                    |
| B13               | 2            | As, <b>Cr</b>                                                                |
| B15               | 3            | <b>Cr</b>                                                                    |
| B18               | 3            | <b>As, Cr</b>                                                                |
| B19               | 3            | <b>Cr</b>                                                                    |
| Island 1          | 9            | As, Cr                                                                       |
| Island 2          | 6            | Cr                                                                           |

1- where at least one sample exceeds CCME soil guidelines

2- bold values indicate parameters where median concentration exceed CCME soil guidelines



### 3.2 Acid Generation Potential

The results of ABA testing are presented in Appendix A.2 as tables and figures. The results provide information on the ARD potential of each sample as determined based on sulphide content, net neutralization potential ( $\text{NNP} = \text{NP} - \text{AP}$ ), NPR ( $\text{NP}/\text{AP}$ ), and CaNPR ( $\text{CaNP}/\text{AP}$ ). Summary statistics are provided for each sample location, including: minimum, maximum, average, median, 75<sup>th</sup> percentile and standard deviation.

A summary of the ARD potential for each sample group is presented in Table 6. Samples that have a potential to generate ARD are referred to as “potentially acid generating” (PAG), while those that are acid-buffering are referred to as non PAG. All other material is referred to as “uncertain” as these samples are either not clearly net acid generating or acid producing or have variable NPR results within the sample group based on available ABA results.

The quarry and esker samples show no potential to generate acid drainage with the exception of one sample which is considered PAG (R14-03). The low ARD potential stems from the low sulphide content and high buffering capacity of the sample material. Sulphide sulphur content ranges from <0.01 to 0.17% (in rock) and 0.07% (in till) and total sulphur ranges from <0.005 to 0.34% (in rock) and 0.09% (in till). The dominant species in most samples is sulphide sulphur (Figure A.2-1) as sulphate is frequently below the MDL (<0.01%).

Paste pH is circum-neutral to alkaline and ranges from 7.4 to 9.9 (in rock) and 5.8 to 9.1 (in till). Buffering capacity (NP) ranges from 4.3 to 131 tonnes  $\text{CaCO}_3$  /100 tonnes (rock) and 4.5 to 28 tonnes  $\text{CaCO}_3$  /100 tonnes (till). NP is similar to carbonate NP (Figure A.2-2) where NP is greater than 10 tonnes  $\text{CaCO}_3$  /100 tonnes; however a deviation of this general trend is observed in the low-NP portion of samples and is likely due to aluminosilicate minerals being a provider of NP.

ARD classification (INAC 1992) is shown graphically for all samples in Appendix Figures A.2-3 and A.2-4. Based on the low sulphide sulphur content and high NPR values, most samples are classified as non acid generating (non PAG). One sample (R14-03) reports the highest total sulphur content of the rock samples (0.34%) and the lowest buffering capacity (4.3 tonnes  $\text{CaCO}_3$  /100 tonnes). Based on the NPR value (0.8), this sample is classified as PAG.



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**Table 6: Summary of Rock and Till ARD Potential**

| Proposed Location             |          | Material Type     | Sample Count | Sample Count |     | Median Paste pH Value | Average Sulphide (%) | Overall ARD Designation per Quarry/ Borrow Location |
|-------------------------------|----------|-------------------|--------------|--------------|-----|-----------------------|----------------------|-----------------------------------------------------|
|                               |          |                   |              | non PAG      | PAG |                       |                      |                                                     |
| PROPOSED QUARRY LOCATIONS     | Itivia   | crushed aggregate | 4            | 4            | 0   | 9.1                   | 0.05                 | non PAG                                             |
|                               | R1       | meta-sedimentary  | 3            | 3            | 0   | 9.5                   | 0.06                 | non PAG                                             |
|                               | R2       | mafic volcanic    | 3            | 3            | 0   | 9.4                   | 0.06                 | non PAG                                             |
|                               | R5       | granite           | 3            | 3            | 0   | 9.7                   | <0.01                | non PAG                                             |
|                               | R7       | mafic volcanic    | 5            | 5            | 0   | 9.7                   | 0.03                 | non PAG                                             |
|                               | R9       | mafic volcanic    | 3            | 3            | 0   | 8.9                   | 0.03                 | non PAG                                             |
|                               | R11      | granite           | 5            | 5            | 0   | 9.8                   | <0.07                | non PAG                                             |
|                               | R14      | mafic volcanic    | 5            | 4            | 1   | 9.4                   | 0.07                 | non PAG                                             |
|                               | R16      | gabbro            | 9            | 9            | 0   | 9.2                   | 0.05                 | non PAG                                             |
|                               | R17      | mafic volcanic    | 3            | 3            | 0   | 9.1                   | 0.05                 | non PAG                                             |
|                               | R19      | mafic volcanic    | 3            | 3            | 0   | 9.0                   | 0.01                 | non PAG                                             |
|                               | R82      | mafic volcanic    | 3            | 3            | 0   | 9.2                   | 0.03                 | non PAG                                             |
|                               | R280     | granite           | 3            | 3            | 0   | 9.7                   | 0.01                 | non PAG                                             |
|                               | R350     | mafic volcanic    | 4            | 4            | 0   | 9.5                   | 0.02                 | non PAG                                             |
|                               | R359     | mafic volcanic    | 3            | 3            | 0   | 9.6                   | 0.02                 | non PAG                                             |
|                               | T041     | mafic volcanic    | 5            | 5            | 0   | 9.3                   | 0.04                 | non PAG                                             |
|                               | T043     | mafic volcanic    | 5            | 5            | 0   | 9.2                   | 0.03                 | non PAG                                             |
|                               | T046     | mafic volcanic    | 5            | 5            | 0   | 9.0                   | 0.02                 | non PAG                                             |
| PROPOSED BORROW PIT LOCATIONS | B1A      | glacial till      | 3            | 3            | 0   | 7.4                   | 0.01                 | non PAG                                             |
|                               | B3       | glacial till      | 3            | 3            | 0   | 9.0                   | <0.01                | non PAG                                             |
|                               | B5       | glacial till      | 3            | 3            | 0   | 8.2                   | <0.02                | non PAG                                             |
|                               | B6A      | glacial till      | 3            | 3            | 0   | 8.2                   | <0.01                | non PAG                                             |
|                               | B8       | glacial till      | 3            | 3            | 0   | 7.4                   | 0.02                 | non PAG                                             |
|                               | B10      | glacial till      | 3            | 3            | 0   | 7.8                   | <0.02                | non PAG                                             |
|                               | B11A     | glacial till      | 3            | 3            | 0   | 7.6                   | 0.02                 | non PAG                                             |
|                               | B12      | glacial till      | 3            | 3            | 0   | 8.0                   | <0.01                | non PAG                                             |
|                               | B13      | glacial till      | 2            | 2            | 0   | 6.1                   | 0.05                 | non PAG                                             |
|                               | B15      | glacial till      | 3            | 3            | 0   | 8.1                   | <0.03                | non PAG                                             |
|                               | B18      | glacial till      | 3            | 3            | 0   | 7.9                   | 0.03                 | non PAG                                             |
|                               | B19      | glacial till      | 3            | 3            | 0   | 7.8                   | <0.03                | non PAG                                             |
|                               | Island 1 | glacial till      | 9            | 9            | 0   | 8.2                   | <0.01                | non PAG                                             |
|                               | Island 2 | glacial till      | 6            | 6            | 0   | 7.4                   | <0.01                | non PAG                                             |



### 3.3 Metal Leaching Potential

Leachate quality results for quarry rock and esker (till) samples are presented in Appendix A.3. Results are compared with effluent regulations (MMER; DFO 2006) and CEQG guidelines for the protection of aquatic life (CCME 2007). Results for rock and till samples are discussed separately below, including Tables 7 and 8 which present a summary of parameters exceeding screening criteria.

Exceedances in leachates from laboratory tests do not necessarily imply non-compliance of contact water quality. The quality of drainage water will depend on a number of factors that are difficult to reproduce in static leach tests such as the SFE test, including, but not necessarily limited to, grain size and site climate which affect the ratio of leaching solution to solid material and water-rock contact time. Rather, results discussed below underline the propensity of the rock and till material to release metals in dissolved form in contact water drainage.

Median pH (>9.0), copper and aluminum concentrations frequently exceed CEQG for rock, while SFE aluminum concentrations exceed CEQG for most rock and till samples. Iron often exceeds CEQG for till. Chemical principles dictate that the dissolved iron concentration should be lower in the pH range of the SFE tests. In neutral to slightly alkaline pH conditions, the reported elevated concentrations of iron and aluminum are likely to include a portion of colloidal (particulate) iron and aluminum in the leachate sample. Colloidal particles are typically smaller than the 0.45- $\mu$ m filter pore size used to collect leach test water for analysis and thus this solid-phase fraction can be reported as a dissolved phase concentration. In Golder (2010c), chemical speciation and saturation modelling was conducted using the USGS Code PhreeqC (Parkhurst, 1995) to assess the proportion of the aluminum concentration that may be precipitated (colloidal) and it was noted that a proportion of dissolved aluminum was likely present as solid phase colloidal particulates. This is also likely the case for some of the reported dissolved iron concentrations.

The following sections discuss SFE leachate results for rock and till material separately. Specific metal leachability for both materials is discussed in a subsequent section.

#### Rock Quarry Material

The final pH values of the rock material SFE leachates are circum-neutral to alkaline with values ranging from 5.9 to 10.0. For most samples, the alkaline pH values corroborate the available buffering capacity. The one uncertain/PAG sample reported the lowest pH value (5.9), indicating that this sample has some readily available buffering capacity to neutralize acid but it remains uncertain whether the buffering capacity would remain available for the long term.

For all proposed quarry locations investigated, the concentrations of most leachate parameters meet CEQG guidelines for the protection of aquatic life (CCME 2007). Exceptions include aluminum, arsenic, copper, and pH (<6.5 and >9.0). Arsenic, cadmium and copper are discussed further below.

All parameters, except pH (>9.5) in some samples, meet mine effluent criteria (MMER; DFO 2006).



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**Table 7: Summary of SFE Parameters Exceeding Screening Criteria – Rock**

| Proposed Location | Material Type     | Sample Count | Median Final pH | CEQG <sup>1</sup>                                                                | MMER <sup>2</sup> |
|-------------------|-------------------|--------------|-----------------|----------------------------------------------------------------------------------|-------------------|
| Itivia            | crushed aggregate | 4            | 9.9             | pH (>9.0), <b>Al</b>                                                             | pH (>9.5)         |
| R1                | meta-sedimentary  | 3            | 9.2             | pH (>9.0), <b>Al</b> , <b>As</b> , <b>Cu</b>                                     | n.e.              |
| R2                | mafic volcanic    | 3            | 9.7             | pH (>9.0), <b>Al</b>                                                             | pH (>9.5)         |
| R5                | granite           | 3            | 8.5             | pH (>9.0), <b>Al</b> , <b>Cd</b>                                                 | n.e.              |
| R7                | mafic volcanic    | 5            | 9.6             | pH (>9.0), <b>Al</b> , <b>Cu</b>                                                 | pH (>9.5)         |
| R9                | mafic volcanic    | 3            | 9.5             | pH (>9.0), <b>Al</b> , <b>Cd</b> , <b>Cr</b> , <b>Cu</b>                         | n.e.              |
| R11               | granite           | 5            | 9.2             | pH (>9.0), <b>Al</b> , <b>Cd</b> , <b>Cu</b>                                     | n.e.              |
| R14               | mafic volcanic    | 5            | 9.2             | pH (<6.5; >9.0), <b>Al</b> , <b>Cu</b>                                           | pH (>9.5)         |
| R16               | gabbro            | 9            | 9.6             | pH (>9.0), <b>Al</b> , <b>As</b> , <b>Cd</b> , <b>Cu</b>                         | pH (>9.5)         |
| R17               | mafic volcanic    | 3            | 9.6             | pH (>9.0), <b>Al</b> , <b>As</b> , <b>Cu</b>                                     | pH (>9.5)         |
| R19               | mafic volcanic    | 3            | 9.6             | pH (>9.0), <b>Al</b> , <b>As</b> , <b>Cu</b> , <b>Fe</b>                         | pH (>9.5)         |
| R82               | mafic volcanic    | 3            | 8.4             | pH (>9.0), <b>Ag</b> , <b>Al</b> , <b>As</b> , <b>Cd</b> , <b>Cu</b> , <b>Fe</b> | n.e.              |
| R280              | granite           | 3            | 8.9             | pH (>9.0), <b>Al</b> , <b>Cd</b>                                                 | n.e.              |
| R350              | mafic volcanic    | 4            | 9.4             | pH (>9.0), <b>Ag</b> , <b>Al</b> , <b>Cd</b> , <b>Cu</b> , <b>Fe</b>             | pH (>9.5)         |
| R359              | mafic volcanic    | 3            | 9.7             | pH (>9.0), <b>Al</b> , <b>As</b> , <b>Cu</b>                                     | pH (>9.5)         |
| T041              | mafic volcanic    | 5            | 9.6             | pH (>9.0), <b>Al</b> , <b>Cd</b> , <b>Cr</b> , <b>Cu</b> , <b>Fe</b>             | pH (>9.5)         |
| T043              | mafic volcanic    | 5            | 9.6             | pH (>9.0), <b>Al</b> , <b>Cd</b> , <b>Cu</b>                                     | pH (>9.5)         |
| T046              | mafic volcanic    | 5            | 9.6             | pH (>9.0), <b>Al</b> , <b>As</b> , <b>Cd</b> , <b>Cu</b>                         | pH (>9.5)         |

1- Canadian Environmental Quality Guidelines for the protection of aquatic life (CCME 2007)

2- Metal Mining Effluent Regulations (DFO 2006)

n.e. no exceedances

bold values indicate that average concentrations exceed CEQG criteria; bold and underlined values indicate that average concentrations exceed CEQG criteria by one order of magnitude or more

### Till (Escher) Material

The final pH values of the till SFE leachates are generally lower than the rock sample results with values ranging from 5.1 to 8.8. For most samples, the alkaline pH values corroborate the available buffering capacity. Samples reporting neutral to mildly acidic pH values may contain stored acidity from metal salts that are released in the leach test.

For all proposed borrow source locations investigated, the concentrations of most leachate parameters meet CEQG guidelines for the protection of aquatic life (CCME 2007). Exceptions in some samples include aluminum, arsenic, cadmium, chromium, copper, iron, lead, nickel, zinc and pH (<6.5). Arsenic, cadmium and copper are discussed further below. Chromium, lead and zinc report average concentrations above CEQG guidelines for some sample groups; however, the averages are only slightly higher than CEQG and as such these parameters are not expected to be of concern to receiving water quality.

All parameters, except pH (<6.0) in some samples, meet mine effluent criteria (MMER; DFO 2006).



**Table 8: Summary of SFE Parameters Exceeding Screening Criteria – Till**

| Proposed Location | Sample Count | Median Final pH | CEQG <sup>1</sup>                         | MMER <sup>2</sup>   |
|-------------------|--------------|-----------------|-------------------------------------------|---------------------|
| B1A               | 3            | 6.7             | pH (<6.5), <b>Al, As, Cd, Cu, Fe</b>      | n.e.                |
| B3                | 3            | 8.7             | <b>Al, As, Cu</b>                         | n.e.                |
| B5                | 3            | 7.2             | pH (<6.5), <b>Al, As, Cd, Cu</b>          | n.e.                |
| B6A               | 3            | 6.9             | pH (<6.5), Ag, <b>Al, Cd, Cu</b>          | n.e.                |
| B8                | 3            | 6.6             | pH (<6.5), <b>Al, As, Cr, Cu, Fe</b>      | n.e.                |
| B10               | 3            | 7.2             | <b>Al, Cd, Cu</b>                         | n.e.                |
| B11A              | 3            | 6.8             | <b>Al, Cu, Fe</b>                         | n.e.                |
| B12               | 3            | 6.7             | pH (<6.5), <b>Al, Cd, Cu</b>              | n.e.                |
| B13               | 2            | 5.5             | <b>pH (&lt;6.5), Al, Cd, Cr, Cu, Fe</b>   | <b>pH (&lt;6.0)</b> |
| B15               | 3            | 7.0             | pH (<6.5), Ag, <b>Al, Cd, Cu</b>          | n.e.                |
| B18               | 3            | 7.0             | <b>Al, As, Cd, Cu</b>                     | n.e.                |
| B19               | 3            | 5.9             | <b>pH (&lt;6.5), Al, Cd, Cr, Cu, Fe</b>   | <b>pH (&lt;6.0)</b> |
| Island 1          | 9            | 6.9             | <b>Al, As, Cd, Cr, Cu, Fe, Ni, Pb, Zn</b> | pH (<6.0)           |
| Island 2          | 6            | 6.4             | <b>Al, As, Cd, Cr, Cu, Fe, Ni, Pb, Zn</b> | pH (<6.0)           |

1- Canadian Environmental Quality Guidelines for the protection of aquatic life (CCME 2007)

2- Metal Mining Effluent Regulations (DFO 2006)

n.e. no exceedances

bold values indicate that average concentrations exceed CEQG criteria; bold and underlined values indicate that average concentrations exceed CEQG criteria by one order of magnitude or more

### Arsenic, Copper and Cadmium Leachability

Arsenic, copper and cadmium are considered to be constituents of environmental interest as they report average SFE leachate concentrations above CEQG aquatic life guidelines for many sample groups. These parameters are discussed further below.

Observations on **arsenic** leaching in the potential road construction material include:

- Arsenic concentrations leached from rock quarry material range from <0.0002 to 0.4 mg/L with a median of 0.001 mg/L. Most values are well below MMER arsenic criteria (0.5 mg/L) except for two samples from T046 that report arsenic concentrations near MMER criteria (0.1 and 0.4 mg/L). Although maximum concentrations are above the CEQG guideline (0.005 mg/L), the 75<sup>th</sup> percentile concentration (0.004 mg/L) is well below the CEQG guideline.
- Arsenic concentrations leached from till material range from 0.0004 to 0.03 mg/L. All values from till locations are well below MMER arsenic criteria (0.5 mg/L). Although upper quartile concentrations are above the CEQG guideline of 0.005 mg/L, the 75<sup>th</sup> percentile concentration (0.005 mg/L) is equal to CEQG and the median (0.002 mg/L) is well below CEQG guideline.
- Leachable arsenic concentrations (SFE) correlate moderately with the total arsenic concentrations as indicated by an R<sup>2</sup> value of 0.8 and 0.6 for rock and till, respectively (Figure A.3-1). The correlation between total and leachable arsenic and the lack of correlation between total arsenic and sulphide content (Figure A.3-2) suggest that arsenopyrite may not be the only source of labile arsenic in both rock and till



material. Other mineral phases (possibly non-sulphide minerals) may contribute to the leached arsenic load observed.

- One proposed quarry location reports leachable arsenic concentrations near the MMER criteria. It is a mafic volcanic location (T046) and would service the Discovery spur road when developed in the future. Two locations report leachable arsenic concentrations greater than one order of magnitude higher than CEQG aquatic life criteria, and include R1 and R16<sup>3</sup>.
- The proposed esker (till) borrow locations reporting the highest arsenic leaching concentrations are all close to the Project site and include B1a, B3 and B5.

Observations on **cadmium** leaching in the potential road construction material include:

- Cadmium concentrations leached from rock quarry material range from <0.000003 to 0.000182 mg/L with a median of 0.000003 mg/L. There is no MMER criterion for cadmium. Although maximum concentrations are above the CEQG guideline (0.000017 mg/L), the 75<sup>th</sup> percentile concentration (0.000006 mg/L) is well below the CEQG guideline.
- Cadmium concentrations leached from till material range from 0.000003 to 0.000151 mg/L. Although the 75<sup>th</sup> percentile concentration (0.00003 mg/L) is above the CEQG guideline (0.000017 mg/L), the median concentration (0.000014 mg/L) is below CEQG guideline.
- Leachable cadmium concentrations (SFE) do not correlate with the total cadmium concentrations as indicated by an R<sup>2</sup> value of 0.01 for both rock and till (Figure A.3-3). The correlation is also weak between total cadmium and sulphide content (Figure A.3-4). It is likely that the source of cadmium in the leachate is contributed by mineral phases other than sulphides.
- Leachable cadmium concentrations are above CEQG aquatic life guidelines in many rock quarry and till samples. However, all sample groups report average cadmium concentrations of the same order of magnitude as the criteria and thus actual site drainage will not likely pose a significant concern with respect to cadmium.

Observations on **copper** leaching in the potential road construction material include:

- Copper concentrations leached from rock quarry material range from <0.0005 to 0.06 mg/L. All values are well below MMER copper criteria (0.3 mg/L). Median and 75<sup>th</sup> percentile copper concentrations (0.006 and 0.013 mg/L, respectively) are above the CEQG guideline (0.002 mg/L);
- Copper concentrations leached from till material range from 0.002 to 0.032 mg/L. All values are well below MMER copper criteria (0.3 mg/L). Median and 75<sup>th</sup> percentile copper concentrations (0.009 and 0.013 mg/L, respectively) are above the CEQG guideline of 0.002 mg/L; and
- Leachable copper concentrations (SFE) do not correlate with the total copper concentrations as indicated by R<sup>2</sup> values of 0.01 and 0.4 for rock and till, respectively (Figure A.3-5). The correlation is also weak between total copper and sulphide content (Figure A.3-6). It is likely that the source of copper in the leachate is contributed by mineral phases other than sulphides;

<sup>3</sup> R16 was recently removed from the list of potential quarries due to the presence of archaeological sites.



- Copper concentrations are above CEQG aquatic life criteria in most locations. However, sample groups reporting average copper concentrations one order of magnitude or more as the criteria include R9, R14, R16, R82, R350, T041, and T043; and B3, B5, B19 and Island 1 and Island 2.

As stated earlier, results from the laboratory testing serve to highlight chemicals of environmental interest and are not necessarily indicative of actual drainage quality because this will depend on the exposure of the materials to ambient conditions, particularly to water and snow melt.

Some parameters, including chromium, lead and zinc, report average concentrations above CEQG guidelines for some sample groups. These average concentrations are only slightly higher than CEQG and as such these parameters are not considered to be problematic in the overall assessment of leachability in terms of receiving water quality.



### 4.0 SUMMARY OF ENVIRONMENTAL CHARACTERISTICS

The geochemical characterization program conducted to date is limited to the use of static tests. With these results, it is possible to develop screening-level observations with regard to the general chemical characteristics of the proposed road construction material. The following considerations are preliminary and are subject to re-evaluation upon further sampling if warranted, should the size or quantity of material extracted from a borrow or quarry area be substantially larger than anticipated herein based on the size of the outcrop.

The results of the geochemical characterization program of road construction material can be summarized as follows:

#### ARD Potential

Most rock samples have no potential to generate acid rock drainage (ARD). This generally stems from the low sulphide content and excess buffering capacity. As such, there is likely no concern for ARD generation from the quarry area or from the rock material used for road construction. The only sample identified as potentially acid generating has both low sulphide content and low buffering capacity from the R14 quarry location. Other R14 samples analyzed show no ARD potential and as such, this is not considered to be a concern for this location.

All till samples show no potential to generate acid rock drainage (ARD). This relates to low sulphide content and high buffering capacity. As such, there is likely no concern for ARD generation from the use of rock material for road construction. However, moderately acidic SFE pH values ( $>5.1$ ) suggest that this material may contain stored metal acidity.

Many rock and till samples produce SFE leachate pH values that fall outside of the MMER range of 6.0 to 9.5. Rock samples produce leachate pH ranging from 5.9 to 10.0 and till leachate pH ranges from 5.1 to 8.8. This corroborates the lower available buffering capacity of the till material.

#### Metal Leach Potential

Metal concentrations in leaching tests for both rock and till samples are below MMER (DFO 2006) criteria with the exception of pH values outside the criteria range (6.0 to 9.5). Two of five samples collected from a single rock quarry location (T043) report arsenic leachate concentrations slightly below MMER criteria.

Rock and till samples report metal leachate concentrations that, for some elements in some samples, exceed the CEQG guideline for the protection of aquatic life (CCME 2007), namely, aluminum, arsenic, cadmium, chromium, copper, iron, lead, nickel, silver, and zinc. These concentrations generally exceed CEQG guidelines marginally but for some samples (R1, R9, R14, R16, R82, R350, T041, T043, and T046, B3, B5, B8, B19, Island 1, and Island 2.) they exceed the respective CCME criterion by one order of magnitude. Given that the CCME criteria apply to receiving water bodies, material extracted from these locations should be placed on high ground away from surface water bodies. Recommendations on the use of material from specific locations are described in Section 5.0.



### 5.0 RECOMMENDATIONS FOR MATERIAL USE

The following discussion pertains to both the extracted material used for road construction and the quarry/borrow pit locations remaining after material excavation. Table 9 summarizes recommendations regarding the use of material from the various locations in road construction.

#### Quarry / Borrow Pit Excavations

It is understood that quarries and borrow source (esker) locations on higher topographic features will be favoured over potential locations in low-lying areas. The strategy will be to utilize locations where the material can be stripped to the surrounding ground elevation rather than digging below grade and minimize the potential for water to accumulate at these locations. This strategy would reduce the requirement for future water management at the quarry locations.

#### Road Construction Material

Recommendation of material use for construction is based on the suitability of the group of samples from each outcrop, specifically relating to the overall potential to leach metals to the receiving environment. In Table 9, recommendations for use in road construction are provided for each potential quarry and esker location. Golder recommends that for locations designated as “limited”, material from these locations should be limited to portions of the road that are either farthest from surface water bodies and/or are topographically higher than the surrounding area.

At locations where arsenic, cadmium, or copper concentrations exceed CEQG aquatic life guidelines by one order of magnitude or more, material may be used as source for construction material but on high ground and away from surface water bodies. These locations include:

- Rock quarry locations: R1, R9, R14, R82, R350, T041, and T043; and,
- Till (Esker) locations: B3, B5, B8, B19, Island 1, and Island 2.

The following locations should not be used as a source for construction material:

- R2, R16, and T046.



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**Table 9: Summary of Environmental Characteristics of Potential Road Construction Material**

| Table of Summary of Environmental Characteristics of Potential Road Construction Material |          |                   |              |                                      |                     |                                                           |                               |
|-------------------------------------------------------------------------------------------|----------|-------------------|--------------|--------------------------------------|---------------------|-----------------------------------------------------------|-------------------------------|
| Proposed Location                                                                         |          | Material Type     | Sample Count | Overall ARD Designation <sup>1</sup> | Median Final SFE pH | Average SFE Concentration > CEQG by ≥1 Order of Magnitude | Recommended for Construction? |
| PROPOSED QUARRY LOCATIONS                                                                 | Itivia   | crushed aggregate | 4            | non PAG                              | 9.9                 | -                                                         | yes                           |
|                                                                                           | R1       | meta-sedimentary  | 3            | non PAG                              | 9.2                 | As                                                        | <b>no</b>                     |
|                                                                                           | R2       | mafic volcanic    | 3            | non PAG                              | 9.7                 | -                                                         | yes                           |
|                                                                                           | R5       | granite           | 3            | non PAG                              | 8.5                 | -                                                         | yes                           |
|                                                                                           | R7       | mafic volcanic    | 5            | non PAG                              | 9.6                 | -                                                         | yes                           |
|                                                                                           | R9       | mafic volcanic    | 3            | non PAG                              | 9.5                 | Cu                                                        | <b>limited</b>                |
|                                                                                           | R11      | granite           | 5            | non PAG                              | 9.2                 | -                                                         | yes                           |
|                                                                                           | R14      | mafic volcanic    | 5            | non PAG                              | 9.2                 | Cu                                                        | <b>limited</b>                |
|                                                                                           | R16      | gabbro            | 9            | non PAG                              | 9.6                 | As, Cu                                                    | <b>no</b>                     |
|                                                                                           | R17      | mafic volcanic    | 3            | non PAG                              | 9.6                 | -                                                         | yes                           |
|                                                                                           | R19      | mafic volcanic    | 3            | non PAG                              | 9.6                 | -                                                         | yes                           |
|                                                                                           | R82      | mafic volcanic    | 3            | non PAG                              | 8.4                 | Cu                                                        | <b>limited</b>                |
|                                                                                           | R280     | granite           | 3            | non PAG                              | 8.9                 | -                                                         | yes                           |
|                                                                                           | R350     | mafic volcanic    | 4            | non PAG                              | 9.4                 | Cu, Al <sup>2</sup>                                       | <b>limited</b>                |
|                                                                                           | R359     | mafic volcanic    | 3            | non PAG                              | 9.7                 | Al <sup>2</sup>                                           | yes                           |
|                                                                                           | T041     | mafic volcanic    | 5            | non PAG                              | 9.6                 | Cu, Al <sup>2</sup>                                       | <b>limited</b>                |
|                                                                                           | T043     | mafic volcanic    | 5            | non PAG                              | 9.6                 | Cu, Al <sup>2</sup>                                       | <b>limited</b>                |
|                                                                                           | T046     | mafic volcanic    | 5            | non PAG                              | 9.6                 | As, Al <sup>2</sup>                                       | <b>no</b>                     |
| PROPOSED BORROW PIT LOCATIONS                                                             | B1A      | glacial till      | 3            | non PAG                              | 6.7                 | -                                                         | yes                           |
|                                                                                           | B3       | glacial till      | 3            | non PAG                              | 8.7                 | As, Cu                                                    | <b>limited</b>                |
|                                                                                           | B5       | glacial till      | 3            | non PAG                              | 7.2                 | Cu                                                        | <b>limited</b>                |
|                                                                                           | B6A      | glacial till      | 3            | non PAG                              | 6.9                 | -                                                         | yes                           |
|                                                                                           | B8       | glacial till      | 3            | non PAG                              | 6.6                 | As                                                        | <b>limited</b>                |
|                                                                                           | B10      | glacial till      | 3            | non PAG                              | 7.2                 | -                                                         | yes                           |
|                                                                                           | B11A     | glacial till      | 3            | non PAG                              | 6.8                 | -                                                         | yes                           |
|                                                                                           | B12      | glacial till      | 3            | non PAG                              | 6.7                 | -                                                         | yes                           |
|                                                                                           | B13      | glacial till      | 2            | non PAG                              | 5.5                 | -                                                         | yes                           |
|                                                                                           | B15      | glacial till      | 3            | non PAG                              | 7.0                 | -                                                         | yes                           |
|                                                                                           | B18      | glacial till      | 3            | non PAG                              | 7.0                 | -                                                         | yes                           |
|                                                                                           | B19      | glacial till      | 3            | non PAG                              | 5.9                 | Cu                                                        | <b>limited</b>                |
|                                                                                           | Island 1 | glacial till      | 9            | non PAG                              | 6.9                 | Al <sup>2</sup> , Cu, Fe <sup>2</sup>                     | <b>limited</b>                |
|                                                                                           | Island 2 | glacial till      | 6            | non PAG                              | 6.4                 | Al <sup>2</sup> , Cu, Fe <sup>2</sup> , Zn                | <b>limited</b>                |

1-per Quarry/ Borrow Location

2-Average SFE aluminum & iron concentration > CEQG but it may be due to particulates and will likely precipitate in a settling pond



### 6.0 LIMITATIONS AND USE OF REPORT

This report was prepared for the exclusive use of Agnico-Eagle Mines Ltd. The report, which specifically includes all tables, figures and appendices, is based on data and information collected during the surface environmental investigation conducted by Golder Associates Ltd. and is based solely on the conditions of the properties at the time of the field investigation, supplemented by historical information and data obtained by Golder Associates Ltd. as described in this report.

Except where specifically stated to the contrary, the information contained in these reports was provided to Golder Associates Ltd. by others and has not been independently verified or otherwise examined by Golder Associates Ltd. to determine its accuracy or completeness. Golder Associates Ltd. has relied in good faith on this information and does not accept responsibility for any deficiency, misstatements, or inaccuracies contained in the reports as a result of omissions, misinterpretation, fraudulent acts or the persons interviewed or contacted or errors or omissions in the reviewed documentation.

The assessment of geochemical characteristics for potential quarry and borrow sites for this project has been made using the results of chemical analysis of discrete rock and till samples from a limited number of surface locations. Subsurface conditions may vary from these sample locations. Additional study, including further surface and subsurface investigation, can reduce the inherent uncertainties associated with this type of study. However, it is never possible, even with exhaustive sampling and testing, to dismiss the possibility that part of a site may have considerably different characteristics, such as different lithologies at depth.

The services performed as described in this report were conducted in a manner consistent with that level of care and skill normally exercised by other members of the geoscience profession currently practising under similar conditions, subject to the time limits and financial and physical constraints applicable to the services. Any use which a third party makes of this report, or any reliance on, or decisions to be made based on it, are the responsibilities of such third parties. Golder Associates Ltd. accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

The content of this report is based on information collected during our investigation, our present understanding of the site conditions, and our professional judgement in light of such information at the time of this report. This report provides a professional opinion and therefore no warranty is either expressed, implied, or made as to the conclusions, advice and recommendations offered in this report. This report does not provide a legal opinion regarding compliance with applicable laws. With respect to regulatory compliance issues, it should be noted that regulatory statutes and the interpretation of regulatory statutes are subject to change.

The findings and conclusions of this report are valid only as of the date of this report. If new information is discovered in future work, including excavations, borings, or other studies, Golder Associates Ltd. should be requested to re-evaluate the conclusions of this report, and to provide amendments as required.



### 7.0 CLOSURE

We trust this report meets your current requirements. Please contact us should you have any questions or comments.

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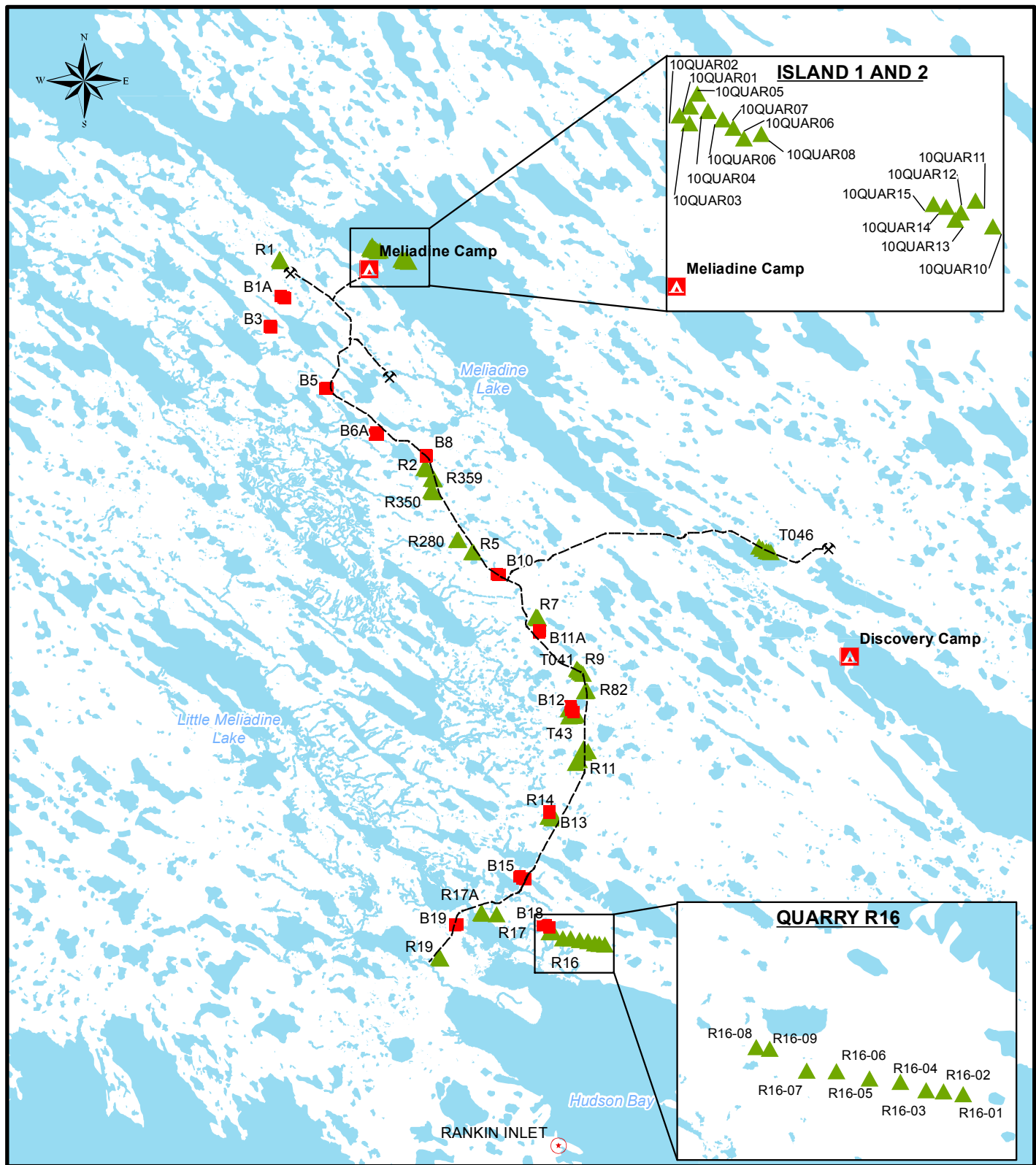
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#### LEGEND

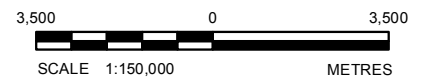
- POTENTIAL AGGREGATE SOURCE (ESKER)
- ▲ POTENTIAL QUARRY LOCATION
- PROPOSED MINE SITE
- ▲ CAMP
- PROPOSED ROADWAY
- WATERCOURSE
- WATERBODY

#### NOTE

THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT NO. 10-1127-0101

#### REFERENCE

BASE DATA OBTAINED FROM THE GOVERNMENT OF CANADA, NATURAL RESOURCES CANADA, CENTRE FOR TOPOGRAPHIC INFORMATION (1:50,000)  
PROJECTION: UTM ZONE 15 DATUM NAD 83



|         |  |                                                             |                |               |        |
|---------|--|-------------------------------------------------------------|----------------|---------------|--------|
| PROJECT |  | AGNICO-EAGLE MINE LTD.<br>MELIADINE GOLD PROJECT<br>NUNAVUT |                |               |        |
| TITLE   |  | LOCATIONS OF POTENTIAL QUARRIES<br>AND AGGREGATES           |                |               |        |
|         |  | PROJECT No. 10-1127-0101                                    | SCALE AS SHOWN |               | REV. 0 |
|         |  | DESIGN                                                      | ABD            | 23 SEPT. 2010 |        |
|         |  | CHECK                                                       | JMC            | 15 DEC. 2010  |        |
|         |  | REVIEW                                                      | VJB            | 15 DEC. 2010  |        |



**FIGURE 1**



# APPENDIX A

## Tabulated Results of Geochemical Analyses



## **A.1 Chemical Composition Tables**

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Appendix A.1  
Chemical Composition - Rock Quarry Material for Road Construction  
Meladine Project, Nunavut  
Agnico-Eagle Mines Ltd

| Typical Crustal Abundance (ug/g) (Price, 1997) |           |                   |         |          |  | 102  | 60   | 56300  | 20850  | 20   | 23300  | 950  | 1.2  | 23550  | 84   | 1050 | 14   | 0.20 | 0.05 | 2.3  | 370  | 5650   | 0.85  | 2.7  | 120  | 33   | 70  |
|------------------------------------------------|-----------|-------------------|---------|----------|--|------|------|--------|--------|------|--------|------|------|--------|------|------|------|------|------|------|------|--------|-------|------|------|------|-----|
| Typical Crustal Abundance (ug/g) x5            |           |                   |         |          |  | 510  | 300  | 281500 | 104250 | 100  | 116500 | 4750 | 6.0  | 117750 | 420  | 5250 | 70   | 1.00 | 0.25 | 11.5 | 1850 | 28250  | 4.25  | 13.5 | 600  | 165  | 350 |
| PROPOSED LOCATION                              | SAMPLE ID | SAMPLE TYPE       | EASTING | NORTHING |  | Fe   | Co   | Fe     | Fe     | U    | Mo     | Mo   | Mo   | Mo     | W    | P    | Pb   | Sb   | Se   | Sr   | Ti   | Cu     | Sn    | Zn   | Ti   | Ti   | Zn  |
|                                                |           |                   |         |          |  | Wt/g | Wt/g | Wt/g   | Wt/g   | Wt/g | Wt/g   | Wt/g | Wt/g | Wt/g   | Wt/g | Wt/g | Wt/g | Wt/g | Wt/g | Wt/g | Wt/g | Wt/g   | Wt/g  | Wt/g | Wt/g | Wt/g |     |
| Itivia                                         | Itivia-01 | crushed aggregate | 0       | 0        |  | 630  | 100  | 83200  | 2900   | 8.0  | 61000  | 1100 | 0.8  | 14000  | 220  | 260  | 1.1  | <0.8 | <0.7 | 0.9  | 130  | 5200   | <0.02 | 0.16 | 190  | 14   | 76  |
| Itivia                                         | Itivia-02 | crushed aggregate | 0       | 0        |  | 620  | 120  | 85000  | 3200   | 8.0  | 65000  | 980  | 0.4  | 14000  | 230  | 280  | 1.2  | <0.8 | <0.7 | 0.9  | 160  | 5500   | 0.02  | 0.18 | 190  | 16   | 80  |
| Itivia                                         | Itivia-03 | crushed aggregate | 0       | 0        |  | 670  | 95   | 85000  | 3700   | 10.0 | 65000  | 1100 | 0.9  | 10000  | 240  | 290  | 1.2  | <0.8 | <0.7 | 0.7  | 160  | 5300   | 0.04  | 0.23 | 190  | 15   | 80  |
| Itivia                                         | Itivia-04 | crushed aggregate | 0       | 0        |  | 640  | 79   | 85000  | 3700   | 8.0  | 65000  | 1100 | 0.4  | 10000  | 220  | 270  | 1.1  | <0.8 | <0.7 | 0.7  | 130  | 5200   | 0.03  | 0.16 | 190  | 14   | 72  |
|                                                |           |                   |         |          |  | 620  | 79   | 83000  | 2900   | 8.0  | 61000  | 980  | 0.4  | 10000  | 220  | 260  | 1.1  | <0.8 | <0.7 | 0.9  | 130  | 5200   | <0.02 | 0.16 | 190  | 14   | 72  |
|                                                |           |                   |         |          |  | 670  | 120  | 85000  | 3700   | 10.0 | 65000  | 1100 | 0.9  | 14000  | 240  | 290  | 1.2  | <0.8 | <0.7 | 0.9  | 160  | 5500   | 0.04  | 0.23 | 190  | 16   | 80  |
|                                                |           |                   |         |          |  | 635  | 98   | 84000  | 3450   | 8.0  | 63500  | 1100 | 0.6  | 12000  | 225  | 275  | 1.2  | nc   | nc   | 0.8  | 145  | 5250   | 0.03  | 0.17 | 190  | 15   | 78  |
|                                                |           |                   |         |          |  | 640  | 99   | 84000  | 3375   | 8.5  | 63250  | 1070 | 0.6  | 12000  | 228  | 275  | 1.2  | nc   | nc   | 0.8  | 145  | 5300   | 0.03  | 0.18 | 190  | 15   | 77  |
|                                                |           |                   |         |          |  | 22   | 17   | 1155   | 395    | 1.0  | 2062   | 60   | 0.3  | 1309   | 10   | 11   | 0.1  | nc   | nc   | 0.1  | 17   | 141    | 0.01  | 0.03 | 100  | 1.0  | 3.8 |
|                                                |           |                   |         |          |  | 640  | 105  | 85000  | 3700   | 10.0 | 65000  | 1100 | 0.8  | 14000  | 233  | 283  | 1.2  | nc   | nc   | 0.9  | 160  | 5350   | 0.03  | 0.19 | 190  | 15   | 80  |
|                                                |           |                   |         |          |  | 620  | 79   | 83000  | 2900   | 8.0  | 61000  | 980  | 0.4  | 10000  | 220  | 260  | 1.1  | <0.8 | <0.7 | 0.9  | 130  | 5200   | <0.02 | 0.16 | 190  | 14   | 72  |
|                                                |           |                   |         |          |  | 670  | 120  | 85000  | 3700   | 10.0 | 65000  | 1100 | 0.9  | 14000  | 240  | 290  | 1.2  | <0.8 | <0.7 | 0.9  | 160  | 5500   | 0.04  | 0.23 | 190  | 16   | 80  |
|                                                |           |                   |         |          |  | 635  | 98   | 84000  | 3450   | 8.0  | 63500  | 1100 | 0.6  | 12000  | 225  | 275  | 1.2  | nc   | nc   | 0.8  | 145  | 5250   | 0.03  | 0.17 | 190  | 15   | 78  |
|                                                |           |                   |         |          |  | 640  | 99   | 84000  | 3375   | 8.5  | 63250  | 1070 | 0.6  | 12000  | 228  | 275  | 1.2  | nc   | nc   | 0.8  | 145  | 5300   | 0.03  | 0.18 | 190  | 15   | 77  |
|                                                |           |                   |         |          |  | 22   | 17   | 1155   | 395    | 1.0  | 2062   | 60   | 0.3  | 1309   | 10   | 11   | 0.1  | nc   | nc   | 0.1  | 17   | 141    | 0.01  | 0.03 | 100  | 1.0  | 3.8 |
|                                                |           |                   |         |          |  | 640  | 105  | 85000  | 3700   | 10.0 | 65000  | 1100 | 0.8  | 14000  | 233  | 283  | 1.2  | nc   | nc   | 0.9  | 160  | 5350   | 0.03  | 0.19 | 190  | 15   | 80  |
|                                                |           |                   |         |          |  | 620  | 79   | 83000  | 2900   | 8.0  | 61000  | 980  | 0.4  | 10000  | 220  | 260  | 1.1  | <0.8 | <0.7 | 0.9  | 130  | 5200   | <0.02 | 0.16 | 190  | 14   | 72  |
|                                                |           |                   |         |          |  | 670  | 120  | 85000  | 3700   | 10.0 | 65000  | 1100 | 0.9  | 14000  | 240  | 290  | 1.2  | <0.8 | <0.7 | 0.9  | 160  | 5500   | 0.04  | 0.23 | 190  | 16   | 80  |
|                                                |           |                   |         |          |  | 635  | 98   | 84000  | 3450   | 8.0  | 63500  | 1100 | 0.6  | 12000  | 225  | 275  | 1.2  | nc   | nc   | 0.8  | 145  | 5250   | 0.03  | 0.17 | 190  | 15   | 78  |
|                                                |           |                   |         |          |  | 640  | 99   | 84000  | 3375   | 8.5  | 63250  | 1070 | 0.6  | 12000  | 228  | 275  | 1.2  | nc   | nc   | 0.8  | 145  | 5300   | 0.03  | 0.18 | 190  | 15   | 77  |
|                                                |           |                   |         |          |  | 22   | 17   | 1155   | 395    | 1.0  | 2062   | 60   | 0.3  | 1309   | 10   | 11   | 0.1  | nc   | nc   | 0.1  | 17   | 141    | 0.01  | 0.03 | 100  | 1.0  | 3.8 |
|                                                |           |                   |         |          |  | 640  | 105  | 85000  | 3700   | 10.0 | 65000  | 1100 | 0.8  | 14000  | 233  | 283  | 1.2  | nc   | nc   | 0.9  | 160  | 5350   | 0.03  | 0.19 | 190  | 15   | 80  |
|                                                |           |                   |         |          |  | 620  | 79   | 83000  | 2900   | 8.0  | 61000  | 980  | 0.4  | 10000  | 220  | 260  | 1.1  | <0.8 | <0.7 | 0.9  | 130  | 5200   | <0.02 | 0.16 | 190  | 14   | 72  |
|                                                |           |                   |         |          |  | 670  | 120  | 85000  | 3700   | 10.0 | 65000  | 1100 | 0.9  | 14000  | 240  | 290  | 1.2  | <0.8 | <0.7 | 0.9  | 160  | 5500   | 0.04  | 0.23 | 190  | 16   | 80  |
|                                                |           |                   |         |          |  | 635  | 98   | 84000  | 3450   | 8.0  | 63500  | 1100 | 0.6  | 12000  | 225  | 275  | 1.2  | nc   | nc   | 0.8  | 145  | 5250   | 0.03  | 0.17 | 190  | 15   | 78  |
|                                                |           |                   |         |          |  | 640  | 99   | 84000  | 3375   | 8.5  | 63250  | 1070 | 0.6  | 12000  | 228  | 275  | 1.2  | nc   | nc   | 0.8  | 145  | 5300   | 0.03  | 0.18 | 190  | 15   | 77  |
|                                                |           |                   |         |          |  | 22   | 17   | 1155   | 395    | 1.0  | 2062   | 60   | 0.3  | 1309   | 10   | 11   | 0.1  | nc   | nc   | 0.1  | 17   | 141    | 0.01  | 0.03 | 100  | 1.0  | 3.8 |
|                                                |           |                   |         |          |  | 640  | 105  | 85000  | 3700   | 10.0 | 65000  | 1100 | 0.8  | 14000  | 233  | 283  | 1.2  | nc   | nc   | 0.9  | 160  | 5350   | 0.03  | 0.19 | 190  | 15   | 80  |
|                                                |           |                   |         |          |  | 620  | 79   | 83000  | 2900   | 8.0  | 61000  | 980  | 0.4  | 10000  | 220  | 260  | 1.1  | <0.8 | <0.7 | 0.9  | 130  | 5200   | <0.02 | 0.16 | 190  | 14   | 72  |
|                                                |           |                   |         |          |  | 670  | 120  | 85000  | 3700   | 10.0 | 65000  | 1100 | 0.9  | 14000  | 240  | 290  | 1.2  | <0.8 | <0.7 | 0.9  | 160  | 5500   | 0.04  | 0.23 | 190  | 16   | 80  |
|                                                |           |                   |         |          |  | 635  | 98   | 84000  | 3450   | 8.0  | 63500  | 1100 | 0.6  | 12000  | 225  | 275  | 1.2  | nc   | nc   | 0.8  | 145  | 5250   | 0.03  | 0.17 | 190  | 15   | 78  |
|                                                |           |                   |         |          |  | 640  | 99   | 84000  | 3375   | 8.5  | 63250  | 1070 | 0.6  | 12000  | 228  | 275  | 1.2  | nc   | nc   | 0.8  | 145  | 5300   | 0.03  | 0.18 | 190  | 15   | 77  |
|                                                |           |                   |         |          |  | 22   | 17   | 1155   | 395    | 1.0  | 2062   | 60   | 0.3  | 1309   | 10   | 11   | 0.1  | nc   | nc   | 0.1  | 17   | 141    | 0.01  | 0.03 | 100  | 1.0  | 3.8 |
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|                                                |           |                   |         |          |  | 620  | 79   | 83000  | 2900   | 8.0  | 61000  | 980  | 0.4  | 10000  | 220  | 260  | 1.1  | <0.8 | <0.7 | 0.9  | 130  | 5200   | <0.02 | 0.16 | 190  | 14   | 72  |
|                                                |           |                   |         |          |  | 670  | 120  | 85000  | 3700   | 10.0 | 65000  | 1100 | 0.9  | 14000  | 240  | 290  | 1.2  | <0.8 | <0.7 | 0.9  | 160  | 5500   | 0.04  | 0.23 | 190  | 16   | 80  |
|                                                |           |                   |         |          |  | 635  | 98   | 84000  | 3450   | 8.0  | 63500  | 1100 | 0.6  | 12000  | 225  | 275  | 1.2  | nc   | nc   | 0.8  | 145  | 5250   | 0.03  | 0.17 | 190  | 15   | 78  |
|                                                |           |                   |         |          |  | 640  | 99   | 84000  | 3375   | 8.5  | 63250  | 1070 | 0.6  | 12000  | 228  | 275  | 1.2  | nc   | nc   | 0.8  | 145  | 5300   | 0.03  | 0.18 | 190  | 15   | 77  |
|                                                |           |                   |         |          |  | 22   | 17   | 1155   | 395    | 1.0  | 2062   | 60   | 0.3  | 1309   | 10   | 11   | 0.1  | nc   | nc   | 0.1  | 17   | 141    | 0.01  | 0.03 | 100  | 1.0  | 3.8 |
|                                                |           |                   |         |          |  | 640  | 105  | 85000  | 3700   | 10.0 | 65000  | 1100 | 0.8  | 14000  | 233  | 283  | 1.2  | nc   | nc   | 0.9  | 160  | 5350   | 0.03  | 0.19 | 190  | 15   | 80  |
|                                                |           |                   |         |          |  | 620  | 79   | 83000  | 2900   | 8.0  | 61000  | 980  | 0.4  | 10000  | 220  | 260  | 1.1  | <0.8 | <0.7 | 0.9  | 130  | 5200   | <0.02 | 0.16 | 190  | 14   | 72  |
|                                                |           |                   |         |          |  | 670  | 120  | 85000  | 3700   | 10.0 | 65000  | 1100 | 0.9  | 14000  | 240  | 290  | 1.2  | <0.8 | <0.7 | 0.9  | 160  | 5500   | 0.04  | 0.23 | 190  | 16   | 80  |
|                                                |           |                   |         |          |  | 635  | 98   | 84000  | 3450   | 8.0  | 63500  | 1100 | 0.6  | 12000  | 225  | 275  | 1.2  | nc   | nc   | 0.8  | 145  | 5250   | 0.03  | 0.17 | 190  | 15   | 78  |
|                                                |           |                   |         |          |  | 640  | 99   | 84000  | 3375   | 8.5  | 63250  | 1070 | 0.6  | 12000  | 228  | 275  | 1.2  | nc   | nc   | 0.8  | 145  | 5300   | 0.03  | 0.18 | 190  | 15   | 77  |
|                                                |           |                   |         |          |  | 22   | 17   | 1155   | 395    | 1.0  | 2062   | 60   | 0.3  | 1309   | 10   | 11   | 0.1  | nc   | nc   | 0.1  | 17   | 141    | 0.01  | 0.03 | 100  | 1.0  | 3.8 |
|                                                |           |                   |         |          |  | 640  | 105  | 85000  | 3700   | 10.0 | 65000  | 1100 | 0.8  | 14000  | 233  | 283  | 1.2  | nc   | nc   | 0.9  | 160  | 5350   | 0.03  | 0.19 | 190  | 15   | 80  |
|                                                |           |                   |         |          |  | 620  | 79   | 83000  | 2900   | 8.0  | 61000  | 980  | 0.4  | 10000  | 220  | 260  | 1.1  | <0.8 | <0.7 | 0.9  | 130  | 5200   | <0.02 | 0.16 | 190  | 14   | 72  |
|                                                |           |                   |         |          |  | 670  | 120  | 85000  | 3700   | 10.0 | 65000  | 1100 | 0.9  | 14000  | 240  | 290  | 1.2  | <0.8 | <0.7 | 0.9  | 160  | 5500   | 0.04  | 0.23 | 190  | 16   | 80  |
|                                                |           |                   |         |          |  | 635  | 98   | 84000  | 3450   | 8.0  | 63500  | 1100 | 0.6  | 12000  | 225  | 275  | 1.2  | nc   | nc   | 0.8  | 145  | 5250   | 0.03  | 0.17 | 190  | 15   | 78  |
|                                                |           |                   |         |          |  | 640  | 99   | 84000  | 3375   | 8.5  | 63250  | 1070 | 0.6  | 12000  | 228  | 275  | 1.2  | nc   | nc   | 0.8  | 145  | 5300   | 0.03  | 0.18 | 190  | 15   | 77  |
|                                                |           |                   |         |          |  | 22   | 17   | 1155   | 395    | 1.0  | 2062   | 60   | 0.3  | 1309   | 10   | 11   | 0.1  | nc   | nc   | 0.1  | 17   | 141    | 0.01  | 0.03 | 100  | 1.0  | 3.8 |
|                                                |           |                   |         |          |  | 640  | 105  | 85000  | 3700   | 10.0 | 65000  | 1100 | 0.8  | 14000  | 233  | 283  | 1.2  | nc   | nc   | 0.9  | 160  | 5350   | 0.03  | 0.19 | 190  | 15   | 80  |
|                                                |           |                   |         |          |  | 620  | 79   | 83000  | 2900   | 8.0  | 61000  | 980  | 0.4  | 10000  | 220  | 260  | 1.1  | <0.8 | <0.7 | 0.9  | 130  | 5200</ |       |      |      |      |     |

Appendix A.1  
Chemical Composition - Rock Quarry Material for Road Construction  
Meladine Project, Nunavut  
Agnico-Eagle Mines Ltd

| Typical Crustal Abundance (ug/g) (Price, 1997) |           |                    |         |          |                  |                                |                                |      |      |                   |                  |                  |                               |      |                                |                               |      |      | 0.075 | 82300  | 1.8  | 425  | 3    | 0.009 | 41500  | 0.15 | 25  |      |      |      |      |      |      |
|------------------------------------------------|-----------|--------------------|---------|----------|------------------|--------------------------------|--------------------------------|------|------|-------------------|------------------|------------------|-------------------------------|------|--------------------------------|-------------------------------|------|------|-------|--------|------|------|------|-------|--------|------|-----|------|------|------|------|------|------|
| Typical Crustal Abundance (ug/g) x5            |           |                    |         |          |                  |                                |                                |      |      |                   |                  |                  |                               |      |                                |                               |      |      | 0.375 | 411500 | 9.0  | 2125 | 15   | 0.043 | 207500 | 0.75 | 125 |      |      |      |      |      |      |
| PROPOSED LOCATION                              | SAMPLE ID | SAMPLE TYPE        | EASTING | NORTHING | SiO <sub>2</sub> | Al <sub>2</sub> O <sub>3</sub> | Fe <sub>2</sub> O <sub>3</sub> | MgO  | CaO  | Na <sub>2</sub> O | K <sub>2</sub> O | TiO <sub>2</sub> | P <sub>2</sub> O <sub>5</sub> | MnO  | Cr <sub>2</sub> O <sub>3</sub> | V <sub>2</sub> O <sub>5</sub> | LOI  | Sum  | Ag    | As     | Be   | B    | Cd   | Co    | Cu     | Hf   | Ni  | Pb   | Se   | Sr   | Th   | U    | Zn   |
| R17                                            | R17-01    | mafic volcanic     | 545082  | 6971576  | 64               | 17                             | 5.8                            | 2.8  | 1.3  | 3.3               | 2.17             | 0.66             | 0.13                          | 0.09 | 0.03                           | 0.02                          | 2.6  | 99   | 0.37  | 89000  | 21   | 550  | 1.20 | 0.25  | 9100   | 0.20 | 18  | 0.08 | 0.17 | 0.03 | 0.01 | 0.01 | 0.01 |
| R17                                            | R17-02    | mafic volcanic     | 545053  | 6971595  | 48               | 13                             | 11                             | 7.1  | 8.1  | 1.4               | 0.91             | 0.77             | 0.06                          | 0.20 | 0.03                           | 0.04                          | 8.7  | 99   | 0.13  | 70000  | 13   | 220  | 0.35 | <0.09 | 56000  | 0.17 | 36  | 0.08 | 0.17 | 0.03 | 0.01 | 0.01 | 0.01 |
| R17                                            | R17-03    | mafic volcanic     | 545077  | 6971595  | 50               | 14                             | 11                             | 7.4  | 10.7 | 2.3               | 0.16             | 0.79             | 0.06                          | 0.20 | 0.03                           | 0.05                          | 3.5  | 100  | 0.23  | 69000  | 18   | 68   | 0.47 | <0.09 | 72000  | 0.28 | 38  | 0.08 | 0.17 | 0.03 | 0.01 | 0.01 | 0.01 |
| R17                                            | R17A-01   | mafic volcanic     | 545480  | 6971560  | 50               | 14                             | 12                             | 7.8  | 8.3  | 2.5               | 0.26             | 0.80             | 0.07                          | 0.20 | 0.04                           | 0.05                          | 3.4  | 100  | 0.25  | 72000  | 3.7  | 100  | 0.69 | 0.17  | 58000  | 0.21 | 41  | 0.08 | 0.17 | 0.03 | 0.01 | 0.01 | 0.01 |
|                                                |           | MINIMUM            |         |          | 48               | 13                             | 5.8                            | 2.8  | 1.3  | 1.4               | 0.16             | 0.66             | 0.06                          | 0.09 | 0.03                           | 0.02                          | 2.6  | 99   | 0.13  | 69000  | 3.7  | 68   | 0.35 | <0.09 | 9100   | 0.17 | 18  | 0.08 | 0.17 | 0.03 | 0.01 | 0.01 | 0.01 |
| R280                                           | R280-02   | granite            | 544425  | 6981744  | 69               | 17                             | 1.7                            | 0.8  | 3.0  | 5.8               | 1.11             | 0.18             | 0.04                          | 0.05 | 0.02                           | <0.01                         | 0.9  | 100  | 0.11  | 92000  | 21   | 550  | 1.20 | 0.25  | 9100   | 0.20 | 18  | 0.08 | 0.17 | 0.03 | 0.01 | 0.01 | 0.01 |
|                                                |           | MAXIMUM            |         |          | 50               | 14                             | 11                             | 7.2  | 8.2  | 2.4               | 0.59             | 0.78             | 0.07                          | 0.20 | 0.03                           | 0.05                          | 3.5  | 100  | 0.24  | 71000  | 16   | 160  | 0.58 | nc    | 57000  | 0.21 | 37  | 0.08 | 0.17 | 0.03 | 0.01 | 0.01 | 0.01 |
|                                                |           | AVERAGE            |         |          | 53               | 14                             | 10                             | 6.3  | 7.1  | 2.4               | 0.88             | 0.76             | 0.08                          | 0.17 | 0.03                           | 0.04                          | 4.6  | 100  | 0.25  | 75000  | 14   | 235  | 0.68 | nc    | 48775  | 0.22 | 33  | 0.08 | 0.17 | 0.03 | 0.01 | 0.01 | 0.01 |
|                                                |           | STANDARD DEVIATION |         |          | 7.2              | 1.5                            | 2.8                            | 2.3  | 4.0  | 0.80              | 0.03             | 0.06             | 0.03                          | 0.06 | 0.01                           | 0.01                          | 2.8  | 0.34 | 0.10  | 9416   | 7.6  | 220  | 0.38 | nc    | 27391  | 0.05 | 10  | 0.08 | 0.17 | 0.03 | 0.01 | 0.01 | 0.01 |
|                                                |           | 75TH PERCENTILE    |         |          | 54               | 15                             | 11                             | 7.5  | 8.9  | 2.7               | 1.23             | 0.79             | 0.09                          | 0.20 | 0.03                           | 0.05                          | 4.8  | 100  | 0.28  | 76250  | 18.8 | 303  | 0.82 | nc    | 61500  | 0.23 | 39  | 0.08 | 0.17 | 0.03 | 0.01 | 0.01 | 0.01 |
| R19                                            | R19-01    | mafic volcanic     | 543903  | 6970391  | 51               | 14                             | 13                             | 7.0  | 11   | 2.0               | 0.34             | 1.51             | 0.13                          | 0.22 | 0.03                           | 0.07                          | 0.7  | 100  | 0.28  | 74000  | 0.6  | 96   | 0.46 | <0.09 | 77000  | 0.22 | 43  | 0.08 | 0.17 | 0.03 | 0.01 | 0.01 | 0.01 |
| R19                                            | R19-02    | mafic volcanic     | 543930  | 6970376  | 48               | 15                             | 8.6                            | 6.9  | 12   | 1.4               | 0.46             | 0.56             | 0.05                          | 0.15 | 0.06                           | 0.04                          | 7.4  | 100  | 0.06  | 68000  | 12   | 61   | 0.50 | 0.67  | 82000  | 0.04 | 38  | 0.08 | 0.17 | 0.03 | 0.01 | 0.01 | 0.01 |
| R19                                            | R19-03    | mafic volcanic     | 543954  | 6970360  | 51               | 14                             | 13                             | 7.1  | 11   | 1.9               | 0.35             | 1.50             | 0.12                          | 0.20 | 0.04                           | 0.06                          | 1.5  | 101  | 0.26  | 73000  | 0.8  | 88   | 0.45 | <0.09 | 76000  | 0.21 | 43  | 0.08 | 0.17 | 0.03 | 0.01 | 0.01 | 0.01 |
|                                                |           | MINIMUM            |         |          | 48               | 14                             | 8.6                            | 6.9  | 11   | 1.4               | 0.34             | 0.56             | 0.05                          | 0.15 | 0.03                           | 0.04                          | 7.4  | 100  | 0.06  | 68000  | 0.6  | 61   | 0.45 | <0.09 | 76000  | 0.04 | 38  | 0.08 | 0.17 | 0.03 | 0.01 | 0.01 | 0.01 |
|                                                |           | MAXIMUM            |         |          | 51               | 15                             | 13                             | 7.1  | 12   | 2.0               | 0.46             | 1.51             | 0.13                          | 0.22 | 0.06                           | 0.07                          | 7.4  | 101  | 0.28  | 74000  | 12   | 96   | 0.50 | 0.67  | 82000  | 0.22 | 43  | 0.08 | 0.17 | 0.03 | 0.01 | 0.01 | 0.01 |
|                                                |           | MEDIAN             |         |          | 51               | 14                             | 13                             | 7.0  | 11   | 1.9               | 0.35             | 1.50             | 0.12                          | 0.20 | 0.04                           | 0.06                          | 1.5  | 100  | 0.26  | 73000  | 0.8  | 88   | 0.46 | nc    | 77000  | 0.21 | 43  | 0.08 | 0.17 | 0.03 | 0.01 | 0.01 | 0.01 |
|                                                |           | AVERAGE            |         |          | 50               | 14                             | 12                             | 7.0  | 11   | 1.8               | 0.38             | 1.19             | 0.10                          | 0.19 | 0.04                           | 0.06                          | 3.2  | 100  | 0.20  | 71667  | 4.5  | 82   | 0.47 | nc    | 78333  | 0.16 | 41  | 0.08 | 0.17 | 0.03 | 0.01 | 0.01 | 0.01 |
|                                                |           | STANDARD DEVIATION |         |          | 1.3              | 0.53                           | 2.6                            | 0.10 | 0.46 | 0.34              | 0.07             | 0.55             | 0.04                          | 0.04 | 0.02                           | 0.02                          | 3.7  | 0.38 | 0.12  | 3215   | 6.5  | 18   | 0.03 | nc    | 3215   | 0.10 | 2.9 | 0.08 | 0.17 | 0.03 | 0.01 | 0.01 | 0.01 |
|                                                |           | 75TH PERCENTILE    |         |          | 51               | 14                             | 13                             | 7.0  | 11   | 2.0               | 0.41             | 1.51             | 0.13                          | 0.21 | 0.05                           | 0.07                          | 4.4  | 101  | 0.27  | 73500  | 6.4  | 92   | 0.48 | nc    | 79500  | 0.22 | 43  | 0.08 | 0.17 | 0.03 | 0.01 | 0.01 | 0.01 |
| R82                                            | R82-01    | mafic volcanic     | 547421  | 6977137  | 49               | 16                             | 14                             | 5.6  | 10   | 3.0               | 0.64             | 1.16             | 0.09                          | 0.21 | 0.05                           | 0.05                          | 1.1  | 101  | 0.11  | 70000  | <0.5 | 240  | 0.63 | <0.09 | 76000  | 0.10 | 35  | 0.08 | 0.17 | 0.03 | 0.01 | 0.01 | 0.01 |
| R82                                            | R82-02    | mafic volcanic     | 547435  | 6977144  | 48               | 15                             | 16                             | 6.3  | 10   | 2.5               | 0.74             | 1.27             | 0.11                          | 0.24 | 0.04                           | 0.06                          | 1.0  | 101  | 0.14  | 50000  | <0.5 | 180  | 0.50 | <0.09 | 80000  | 0.22 | 45  | 0.08 | 0.17 | 0.03 | 0.01 | 0.01 | 0.01 |
| R82                                            | R82-03    | mafic volcanic     | 547451  | 6977153  | 48               | 15                             | 15                             | 6.1  | 12   | 2.3               | 0.33             | 1.07             | 0.08                          | 0.25 | 0.05                           | 0.06                          | 0.68 | 100  | 0.07  | 76000  | <0.5 | 91   | 1.20 | 0.93  | 80000  | 0.17 | 46  | 0.08 | 0.17 | 0.03 | 0.01 | 0.01 | 0.01 |
|                                                |           | MINIMUM            |         |          | 48               | 15                             | 14                             | 5.6  | 10   | 2.3               | 0.33             | 1.07             | 0.08                          | 0.21 | 0.04                           | 0.05                          | 0.68 | 100  | 0.07  | 50000  | <0.5 | 91   | 0.63 | 0.93  | 67000  | 0.10 | 35  | 0.08 | 0.17 | 0.03 | 0.01 | 0.01 | 0.01 |
|                                                |           | MAXIMUM            |         |          | 49               | 16                             | 16                             | 6.3  | 12   | 3.0               | 0.74             | 1.27             | 0.11                          | 0.25 | 0.05                           | 0.06                          | 1.1  | 101  | 0.14  | 70000  | <0.5 | 240  | 0.63 | <0.09 | 80000  | 0.22 | 46  | 0.08 | 0.17 | 0.03 | 0.01 | 0.01 | 0.01 |
| R350                                           | R350-01   | mafic volcanic     | 543690  | 6983082  | 50               | 15                             | 14                             | 5.7  | 8.8  | 2.9               | 0.60             | 1.22             | 0.14                          | 0.21 | 0.02                           | 0.04                          | 0.66 | 100  | 0.17  | 40000  | <0.5 | 210  | 0.79 | <0.09 | 61000  | 0.12 | 49  | 0.08 | 0.17 | 0.03 | 0.01 | 0.01 | 0.01 |
| R350                                           | R350-02   | mafic volcanic     | 543716  | 6983053  | 50               | 17                             | 12                             | 6.3  | 8.3  | 3.0               | 0.43             | 0.56             | 1.18                          | 0.14 | 0.17                           | 0.04                          | 0.66 | 100  | 0.15  | 55000  | <0.5 | 180  | 0.71 | <0.09 | 53500  | 0.07 | 49  | 0.08 | 0.17 | 0.03 | 0.01 | 0.01 | 0.01 |
| R350                                           | R350-03   | mafic volcanic     | 543750  | 6983044  | 50               | 15                             | 14                             | 5.7  | 8.5  | 3.2               | 0.47             | 1.13             | 0.14                          | 0.21 | 0.03                           | 0.03                          | 0.80 | 100  | 0.18  | 60000  | <0.5 | 170  | 0.68 | <0.09 | 58000  | 0.07 | 45  | 0.08 | 0.17 | 0.03 | 0.01 | 0.01 | 0.01 |
| R350                                           | R350-04   | mafic volcanic     | 543744  | 6983077  | 52               | 14                             | 14                             | 5.8  | 8.5  | 2.4               | 0.81             | 1.20             | 0.15                          | 0.21 | 0.03                           | 0.04                          | 0.69 | 100  | 0.15  | 60000  | <0.5 | 320  | 0.71 | <0.09 | 59000  | 0.12 | 48  | 0.08 | 0.17 | 0.03 | 0.01 | 0.01 | 0.01 |
|                                                |           | MINIMUM            |         |          | 50               | 14                             | 12                             | 5.3  | 8.3  | 2.4               | 0.47             | 1.13             | 0.14                          | 0.17 | 0.01                           | 0.03                          | 0.66 | 100  | 0.15  | 40000  | <0.5 | 170  | 0.68 | <0.09 | 53000  | 0.07 | 45  | 0.08 | 0.17 | 0.03 | 0.01 | 0.01 | 0.01 |
|                                                |           | MAXIMUM            |         |          | 52               | 17                             | 14                             | 5.8  | 8.8  | 4.3               | 0.81             | 1.22             | 0.15                          | 0.21 | 0.03                           | 0.04                          | 0.80 | 100  | 0.18  | 60000  | <0.5 | 320  | 0.79 | <0.09 | 61000  | 0.12 | 49  | 0.08 | 0.17 | 0.03 | 0.01 | 0.01 | 0.01 |
|                                                |           | MEDIAN             |         |          | 50               | 15                             | 14                             | 5.7  | 8.5  | 3.0               | 0.58             | 1.18             | 0.14                          | 0.20 | 0.03                           | 0.04                          | 0.68 | 100  | 0.16  | 57500  | nc   | 195  | 0.71 | nc    | 58500  | 0.11 | 49  | 0.08 | 0.17 | 0.03 | 0.01 | 0.01 | 0.01 |
|                                                |           | AVERAGE            |         |          | 51               | 15                             | 14                             | 5.6  | 8.5  | 3.2               | 0.61             | 1.18             | 0.14                          | 0.20 | 0.02                           | 0.04                          | 0.70 | 100  | 0.16  | 53750  | nc   | 220  | 0.72 | nc    | 57750  | 0.10 | 48  | 0.08 | 0.17 | 0.03 | 0.01 | 0.01 | 0.01 |
|                                                |           | STANDARD DEVIATION |         |          | 0.79             | 1.2                            | 1.1                            | 0.25 | 0.20 | 0.82              | 0.14             | 0.04             | 0.00                          | 0.02 | 0.01                           | 0.01                          | 0.07 | 0.22 | 0.01  | 9465   | nc   | 69   | 0.05 | nc    | 3403   | 0.02 | 1.9 | 0.08 | 0.17 | 0.03 | 0.01 | 0.01 | 0.01 |
|                                                |           | 75TH PERCENTILE    |         |          | 51               | 16                             | 14                             | 5.8  | 8.6  | 3.5               | 0.65             | 1.21             | 0.14                          | 0.21 | 0.03                           | 0.04                          | 0.72 | 100  | 0.17  | 60000  | nc   | 238  | 0.73 | nc    | 59500  | 0.12 | 49  | 0.08 | 0.17 | 0.03 | 0.01 | 0.01 | 0.01 |
| R359                                           | R359-01   | mafic volcanic     | 543706  | 6983412  | 51               | 15                             | 14                             | 5.5  | 8.8  | 2.7               | 0.77             | 1.17             | 0.15                          | 0.20 | 0.01                           | 0.04                          | 0.85 | 100  | 0.18  | 70000  | 4.5  | 250  | 0.64 | <0.09 | 62000  | 0.14 | 50  | 0.08 | 0.17 | 0.03 | 0.01 | 0.01 | 0.01 |
| R359                                           | R359-02   | mafic volcanic     | 543767  | 6983412  | 49               | 15                             | 14                             | 5.4  | 8.3  | 2.6               | 0.71             | 1.19             | 0.15                          | 0.21 | 0.02                           | 0.03                          | 1.4  | 99   | 0.18  | 85000  | <0.5 | 260  | 0.67 | <0.   |        |      |     |      |      |      |      |      |      |

Appendix A.1  
Chemical Composition - Rock Quarry Material for Road Construction  
Meladine Project, Nunavut  
Agnico-Eagle Mines Ltd

| Typical Crustal Abundance (ug/g) (Price, 1997) |           |                    |         |          |     | 102  | 60     | 36300  | 20850  | 20    | 23300  | 950  | 1.2   | 23550  | 84   | 1050 | 14     | 0.20 | 0.05 | 2.3  | 370  | 5650  | 0.85 | 2.7  | 120  | 33   | 70   |
|------------------------------------------------|-----------|--------------------|---------|----------|-----|------|--------|--------|--------|-------|--------|------|-------|--------|------|------|--------|------|------|------|------|-------|------|------|------|------|------|
| Typical Crustal Abundance (ug/g) x5            |           |                    |         |          |     | 510  | 300    | 281500 | 104250 | 100   | 116500 | 4750 | 6.0   | 117750 | 420  | 5250 | 70     | 1.00 | 0.25 | 11.5 | 1850 | 28250 | 4.25 | 13.5 | 600  | 165  | 350  |
| PROPOSED LOCATION                              | SAMPLE ID | SAMPLE TYPE        | EASTING | NORTHING |     | P    | Co     | Fe     | Mg     | Al    | Mn     | Ni   | Na    | Nb     | P    | Sb   | Se     | Sn   | Te   | Ti   | Tl   | U     | V    | Zn   |      |      |      |
|                                                |           |                    |         |          |     | ug/g | ug/g   | ug/g   | ug/g   | ug/g  | ug/g   | ug/g | ug/g  | ug/g   | ug/g | ug/g | ug/g   | ug/g | ug/g | ug/g | ug/g | ug/g  | ug/g | ug/g | ug/g | ug/g | ug/g |
| R17                                            | R17-01    | mafic volcanic     | 545082  | 6971576  |     | 210  | 49     | 42000  | 23000  | 34    | 16000  | 370  | 1.7   | 24000  | 60   | 590  | 14     | <0.8 | <0.7 | 1.4  | 230  | 4200  | 0.37 | 1.8  | 90   | 11   | 83   |
| R17                                            | R17-02    | mafic volcanic     | 545053  | 6971595  | 110 | 29   | 28000  | 10000  | 49     | 41000 | 960    | 300  | 9.9   | 11000  | 79   | 300  | 9.9    | 1.1  | <0.7 | 0.5  | 180  | 4900  | 0.27 | 0.17 | 190  | 17   | 110  |
| R17                                            | R17-03    | mafic volcanic     | 545077  | 6971595  | 160 | 75   | 76000  | 1900   | 16     | 42000 | 1000   | 0.3  | 18000 | 80     | 270  | 29   | 4.1    | <0.7 | 1.1  | 350  | 4900 | 0.02  | 0.16 | 200  | 17   | 120  |      |
| R17                                            | R17A-01   | mafic volcanic     | 545480  | 6971560  | 150 | 56   | 65000  | 3100   | 28     | 44000 | 1000   | 0.4  | 19000 | 83     | 310  | 51   | 2.4    | <0.7 | 0.7  | 380  | 5200 | 0.05  | 0.16 | 200  | 18   | 150  |      |
|                                                |           | MINIMUM            |         |          | 110 | 29   | 42000  | 1900   | 16     | 16000 | 370    | 0.3  | 11000 | 60     | 270  | 9.9  | <0.8   | <0.7 | 0.5  | 180  | 4200 | 0.02  | 0.16 | 90   | 11   | 83   |      |
|                                                |           | MAXIMUM            |         |          | 210 | 75   | 85000  | 23000  | 49     | 44000 | 1000   | 1.7  | 24000 | 83     | 590  | 51   | 4.1    | <0.7 | 1.4  | 380  | 5200 | 0.37  | 1.8  | 200  | 18   | 250  |      |
|                                                |           | MEDIAN             |         |          | 155 | 53   | 77000  | 6550   | 31     | 41500 | 980    | 0.6  | 18500 | 80     | 305  | 22   | 1.8    | nc   | 0.9  | 290  | 4900 | 0.16  | 0.17 | 195  | 17   | 115  |      |
|                                                |           | AVERAGE            |         |          | 158 | 52   | 70250  | 9500   | 32     | 35750 | 833    | 0.8  | 18000 | 76     | 368  | 26   | 2.1    | nc   | 0.9  | 285  | 4800 | 0.18  | 0.57 | 170  | 16   | 141  |      |
|                                                |           | STANDARD DEVIATION |         |          | 41  | 19   | 19225  | 9682   | 14     | 13226 | 309    | 0.6  | 15154 | 10     | 149  | 19   | 1.5    | nc   | 0.9  | 244  | 517  | 0.17  | 0.42 | 54   | 3.2  | 74   |      |
|                                                |           | 75TH PERCENTILE    |         |          | 173 | 61   | 79750  | 13250  | 38     | 42500 | 1000   | 1.0  | 20250 | 81     | 380  | 35   | 2.8    | nc   | 1.2  | 358  | 4975 | 0.30  | 0.58 | 200  | 17   | 153  |      |
| R19                                            | R19-01    | mafic volcanic     | 543903  | 6970391  | 210 | 180  | 93000  | 4000   | 2.0    | 42000 | 1000   | 1.5  | 16000 | 83     | 580  | 1.8  | <0.8   | <0.7 | 1.2  | 170  | 9900 | 0.04  | 0.31 | 260  | 21   | 99   |      |
| R19                                            | R19-02    | mafic volcanic     | 543930  | 6970376  | 350 | 26   | 61000  | 5300   | 3.3    | 37000 | 750    | 1.4  | 11000 | 63     | 220  | 1.5  | 2      | <0.7 | 1.2  | 420  | 3700 | 0.06  | 0.38 | 150  | 12   | 63   |      |
| R19                                            | R19-03    | mafic volcanic     | 543954  | 6970360  | 200 | 180  | 92000  | 4000   | 2.0    | 43000 | 1000   | 0.6  | 16000 | 88     | 540  | 1.5  | <0.8   | <0.7 | 1.4  | 170  | 9700 | 0.05  | 0.30 | 260  | 21   | 81   |      |
|                                                |           | MINIMUM            |         |          | 200 | 26   | 61000  | 4000   | 2.0    | 37000 | 750    | 0.8  | 11000 | 63     | 220  | 1.5  | <0.8   | <0.7 | 1.2  | 170  | 3700 | 0.04  | 0.30 | 150  | 12   | 63   |      |
|                                                |           | MAXIMUM            |         |          | 350 | 180  | 93000  | 5300   | 3.3    | 43000 | 1000   | 1.5  | 16000 | 88     | 580  | 1.8  | 2.0    | <0.7 | 1.4  | 420  | 9900 | 0.06  | 0.38 | 260  | 21   | 99   |      |
|                                                |           | MEDIAN             |         |          | 210 | 180  | 92000  | 4000   | 8.0    | 42000 | 1000   | 1.4  | 16000 | 85     | 540  | 1.5  | nc     | nc   | 1.2  | 170  | 9700 | 0.05  | 0.31 | 260  | 21   | 81   |      |
|                                                |           | AVERAGE            |         |          | 253 | 129  | 82000  | 4433   | 14     | 40667 | 917    | 1.2  | 14333 | 79     | 447  | 1.6  | nc     | nc   | 1.3  | 253  | 7767 | 0.05  | 0.33 | 223  | 18   | 81   |      |
|                                                |           | STANDARD DEVIATION |         |          | 84  | 89   | 18193  | 751    | 16     | 3215  | 144    | 0.5  | 2887  | 14     | 197  | 0.2  | nc     | nc   | 0.1  | 144  | 3523 | 0.01  | 0.04 | 64   | 5.2  | 18   |      |
|                                                |           | 75TH PERCENTILE    |         |          | 280 | 180  | 93500  | 4650   | 21     | 42500 | 1000   | 1.5  | 16000 | 87     | 560  | 1.7  | nc     | nc   | 1.3  | 295  | 9800 | 0.06  | 0.35 | 260  | 21   | 90.0 |      |
| R82                                            | R82-01    | mafic volcanic     | 547421  | 6977137  | 260 | 45   | 85000  | 6800   | 30     | 29000 | 1200   | 0.6  | 21000 | 54     | 390  | 6.2  | <0.8   | <0.7 | 2.2  | 170  | 7200 | 0.39  | 0.24 | 210  | 17   | 96   |      |
| R82                                            | R82-02    | mafic volcanic     | 547435  | 6977144  | 260 | 34   | 110000 | 8000   | 55     | 26000 | 1500   | 3.3  | 20000 | 74     | 480  | 5.3  | <0.8   | <0.7 | 2.5  | 200  | 8000 | 0.66  | 0.38 | 310  | 17   | 120  |      |
| R82                                            | R82-03    | mafic volcanic     | 547451  | 6977153  | 240 | 31   | 100000 | 3600   | 24     | 34000 | 1300   | 5.3  | 19000 | 89     | 370  | 4.6  | <0.8   | <0.7 | 1.7  | 240  | 6800 | 0.06  | 0.14 | 240  | 17   | 110  |      |
|                                                |           | MINIMUM            |         |          | 240 | 31   | 95000  | 3600   | 24     | 26000 | 1200   | 0.6  | 19000 | 54     | 370  | 4.6  | <0.8   | <0.7 | 1.7  | 170  | 6800 | 0.06  | 0.14 | 210  | 17   | 96   |      |
|                                                |           | MAXIMUM            |         |          | 260 | 45   | 100000 | 8000   | 55     | 34000 | 1500   | 3.3  | 20000 | 89     | 480  | 6.2  | <0.8   | <0.7 | 2.2  | 240  | 8000 | 0.66  | 0.38 | 310  | 17   | 120  |      |
|                                                |           | MEDIAN             |         |          | 240 | 34   | 100000 | 6800   | 30     | 28000 | 1300   | 3.9  | 20000 | 74     | 390  | 5.3  | nc     | nc   | 2.5  | 200  | 7200 | 0.39  | 0.24 | 240  | 17   | 110  |      |
|                                                |           | AVERAGE            |         |          | 253 | 37   | 101667 | 6133   | 36     | 29333 | 1333   | 3.3  | 20000 | 72     | 413  | 5.4  | nc     | nc   | 2.3  | 203  | 7333 | 0.37  | 0.25 | 253  | 17   | 109  |      |
|                                                |           | STANDARD DEVIATION |         |          | 12  | 7.4  | 7638   | 2274   | 16     | 4163  | 153    | 2.4  | 1000  | 18     | 59   | 0.8  | nc     | nc   | 0.53 | 35   | 611  | 0.30  | 0.12 | 51   | 0.00 | 12   |      |
|                                                |           | 75TH PERCENTILE    |         |          | 260 | 40   | 105000 | 7400   | 43     | 31000 | 1400   | 4.6  | 20500 | 82     | 435  | 5.8  | nc     | nc   | 2.6  | 220  | 7600 | 0.525 | 0.31 | 275  | 17   | 115  |      |
| R280                                           | R280-01   | granite            | 544401  | 6981741  | 140 | 2.5  | 14000  | 1200   | 10     | 4700  | 79     | 0.5  | 39000 | 4.3    | 230  | 2.5  | <0.8   | <0.7 | 0.8  | 430  | 1100 | 0.09  | 0.43 | 15   | 2.1  | 35   |      |
| R280                                           | R280-02   | granite            | 544425  | 6981744  | 150 | 2.8  | 13000  | 1200   | 10     | 4700  | 79     | 0.5  | 40000 | 4.2    | 230  | 2.9  | <0.8   | <0.7 | 0.8  | 420  | 1100 | 0.09  | 0.42 | 14   | 2.1  | 32   |      |
| R280                                           | R280-03   | granite            | 544444  | 6981745  | 220 | 2.4  | 13000  | 13000  | 11     | 5000  | 85     | 2.4  | 40000 | 6.5    | 240  | 3.0  | <0.8   | <0.7 | <0.5 | 430  | 1200 | 0.08  | 0.38 | 11   | 2.2  | 28   |      |
|                                                |           | MINIMUM            |         |          | 120 | 2.4  | 13000  | 12000  | 10     | 4700  | 79     | 0.5  | 39000 | 4.2    | 230  | 2.5  | <0.8   | <0.7 | <0.5 | 400  | 1100 | 0.08  | 0.38 | 11   | 2.1  | 28   |      |
|                                                |           | MAXIMUM            |         |          | 220 | 2.8  | 14000  | 13000  | 11     | 5000  | 98     | 2.4  | 40000 | 6.5    | 240  | 3.0  | <0.8   | <0.7 | 0.8  | 430  | 1200 | 0.09  | 0.43 | 15   | 2.2  | 35   |      |
|                                                |           | MEDIAN             |         |          | 150 | 2.5  | 13000  | 12000  | 10     | 4700  | 79     | 0.5  | 39000 | 4.3    | 230  | 2.9  | <0.8   | <0.7 | 0.8  | 420  | 1200 | 0.09  | 0.42 | 14   | 2.1  | 32   |      |
|                                                |           | AVERAGE            |         |          | 163 | 2.6  | 13333  | 12667  | 10     | 4900  | 87     | 1.2  | 39667 | 5.0    | 233  | 2.8  | nc     | nc   | nc   | 417  | 1167 | 0.08  | 0.41 | 13   | 2.1  | 32   |      |
|                                                |           | STANDARD DEVIATION |         |          | 51  | 0.2  | 577    | 577    | 0.6    | 173   | 10     | 1.0  | 577   | 1.3    | 6    | 0.3  | nc     | nc   | nc   | nc   | 15   | 58    | 0.01 | 0.03 | 2.1  | 0.06 | 3.5  |
|                                                |           | 75TH PERCENTILE    |         |          | 185 | 2.7  | 13500  | 13000  | 11     | 5000  | 92     | 1.6  | 40000 | 5.4    | 235  | 3.0  | nc     | nc   | nc   | 425  | 1200 | 0.09  | 0.43 | 15   | 2.2  | 34   |      |
| R350                                           | R350-01   | mafic volcanic     | 543690  | 6983082  | 140 | 110  | 100000 | 6000   | 11     | 21000 | 1200   | 0.7  | 21000 | 110    | 620  | 5.6  | <0.8   | <0.7 | 2.0  | 210  | 7800 | 0.08  | 0.72 | 190  | 12   | 110  |      |
| R350                                           | R350-02   | mafic volcanic     | 543716  | 6983053  | 140 | 95   | 81000  | 6100   | 9.0    | 17000 | 830    | 0.9  | 23000 | 118    | 630  | 6.2  | <0.8   | <0.7 | 2.3  | 220  | 7500 | 0.09  | 0.56 | 160  | 12   | 85   |      |
| R350                                           | R350-03   | mafic volcanic     | 543750  | 6983044  | 140 | 150  | 90000  | 5200   | 7.0    | 27000 | 1100   | 0.7  | 24000 | 98     | 620  | 5.8  | <0.8   | <0.7 | 2.4  | 220  | 7100 | 0.06  | 0.68 | 160  | 13   | 100  |      |
| R350                                           | R350-04   | mafic volcanic     | 543744  | 6983077  | 140 | 63   | 100000 | 8900   | 9.0    | 29000 | 1200   | 0.9  | 19000 | 97     | 650  | 6.5  | <0.8   | <0.7 | 2.2  | 160  | 7700 | 0.11  | 0.73 | 170  | 15   | 110  |      |
|                                                |           | MINIMUM            |         |          | 130 | 63   | 81000  | 5200   | 7.0    | 17000 | 830    | 0.7  | 19000 | 96     | 620  | 5.3  | <0.8   | <0.7 | 2.0  | 160  | 7100 | 0.06  | 0.56 | 160  | 12   | 85   |      |
|                                                |           | MAXIMUM            |         |          | 140 | 140  | 100000 | 8900   | 11     | 29000 | 1200   | 0.9  | 24000 | 110    | 650  | 6.5  | <0.8   | <0.7 | 2.4  | 220  | 7800 | 0.11  | 0.73 | 190  | 15   | 110  |      |
|                                                |           | MEDIAN             |         |          | 135 | 103  | 95000  | 6050   | 9.0    | 24000 | 1100   | 0.8  | 22000 | 104    | 630  | 5.7  | nc     | nc   | 2.3  | 215  | 7600 | 0.09  | 0.70 | 165  | 13   | 105  |      |
|                                                |           | AVERAGE            |         |          | 163 | 102  | 95000  | 6550   | 9.0    | 23500 | 1083   | 0.8  | 21750 | 103    | 633  | 5.8  | nc     | nc   | 2.2  | 203  | 7525 | 0.09  | 0.67 | 170  | 13   | 101  |      |
|                                                |           | STANDARD DEVIATION |         |          | 5.8 | 32   | 9345   | 1618   | 1.6    | 5508  | 175    | 0.1  | 2217  | 8      | 15   | 0.5  | nc     | nc   | 0.17 | 29   | 310  | 0.02  | 0.08 | 14   | 1.4  | 12   |      |
|                                                |           | 75TH PERCENTILE    |         |          | 140 | 118  | 100000 | 6800   | 10     | 27500 | 1200   | 0.9  | 23250 | 110    | 643  | 6.0  | nc     | nc   | 2.3  | 220  | 7725 | 0.10  | 0.72 | 175  | 14   | 110  |      |
| R359                                           | R359-01   | mafic volcanic     | 543706  | 6983412  | 120 | 110  | 98000  | 8500   | 8.0    | 29000 | 1100   | 0.7  | 20000 | 110    | 660  | 6.4  | <0.8   | <0.7 | 1.7  | 200  | 7600 | 0.1   | 0.76 | 170  | 15   | 100  |      |
| R359                                           | R359-02   | mafic volcanic     | 543767  | 6983412  | 120 | 89   | 87000  | 7900   | 7.0    | 33000 | 1200   | 0.7  | 23000 | 108    | 660  | 6.9  | <0.8   | <0.7 | 1.8  | 220  | 7800 | 0.11  | 0.76 | 160  | 17   | 110  |      |
| R359                                           | R359-03   | mafic volcanic     | 543767  | 6983384  | 130 | 50   | 93000  | 7400   | 5.0    | 32000 | 1000   | 0.7  | 21000 | 98     | 660  | 6.9  | <0.8   | <0.7 | 4.2  | 240  | 7650 | 0.08  | 0.75 | 160  | 17   | 96   |      |
|                                                |           | MINIMUM            |         |          | 110 | 50   | 93000  | 7400   | 5.0    | 29000 | 1000   | 0.7  | 20000 | 96     | 650  | 6.4  | <0.8</ |      |      |      |      |       |      |      |      |      |      |

Appendix A.1  
Chemical Composition - Esker (Till) Material for Road Construction  
Meladine Project, Nunavut  
Agnico-Eagle Mines Ltd

| CCME Industrial Soil Guideline <sup>1</sup> |           |                    |         |          |                    |                                  |                                  |       |       |                     |                    |                    |                                 |       |                                  |                                 |       |       |         | 12      | 2000    |         |         |         |         | 22      |
|---------------------------------------------|-----------|--------------------|---------|----------|--------------------|----------------------------------|----------------------------------|-------|-------|---------------------|--------------------|--------------------|---------------------------------|-------|----------------------------------|---------------------------------|-------|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| PROPOSED LOCATION                           | SAMPLE ID | SAMPLE TYPE        | EASTING | NORTHING | SiO <sub>2</sub> % | Al <sub>2</sub> O <sub>3</sub> % | Fe <sub>2</sub> O <sub>3</sub> % | MgO % | CaO % | Na <sub>2</sub> O % | K <sub>2</sub> O % | TiO <sub>2</sub> % | P <sub>2</sub> O <sub>5</sub> % | MnO % | Cr <sub>2</sub> O <sub>3</sub> % | V <sub>2</sub> O <sub>5</sub> % | LOI % | Sum % | Ag µg/g | Al µg/g | As µg/g | Ba µg/g | Be µg/g | Bi µg/g | Ca µg/g | Cd µg/g |
| B01A                                        | B1A-01    | Till               | 539731  | 6988294  | 65                 | 16                               | 5.6                              | 2.2   | 1.5   | 3.5                 | 2.3                | 0.60               | 0.13                            | 0.08  | 0.04                             | 0.02                            | 3.9   | 101   | 0.26    | 83000   | 44      | 690     | 1.2     | 0.14    | 10000   | 0.21    |
| B01A                                        | B1A-02    | Till               | 539677  | 6988318  | 66                 | 14                               | 5.1                              | 1.5   | 1.5   | 3.1                 | 1.9                | 0.50               | 0.12                            | 0.09  | 0.06                             | 0.02                            | 6.5   | 101   | 0.25    | 75000   | 40      | 500     | 1.1     | 0.31    | 10000   | 0.19    |
| B01A                                        | B1A-03    | Till               | 539620  | 6988359  | 65                 | 15                               | 6.2                              | 2.6   | 1.7   | 3.3                 | 2.2                | 0.64               | 0.14                            | 0.08  | 0.05                             | 0.02                            | 3.7   | 101   | 0.28    | 82000   | 30      | 610     | 1.2     | 0.22    | 11000   | 0.26    |
|                                             |           | MINIMUM            |         |          | 65                 | 14                               | 5.1                              | 1.5   | 1.5   | 3.1                 | 1.9                | 0.50               | 0.12                            | 0.08  | 0.04                             | 0.02                            | 3.7   | 101   | 0.25    | 75000   | 30      | 500     | 1.1     | 0.14    | 10000   | 0.19    |
|                                             |           | MAXIMUM            |         |          | 66                 | 16                               | 6.2                              | 2.6   | 1.7   | 3.5                 | 2.3                | 0.64               | 0.14                            | 0.09  | 0.06                             | 0.02                            | 6.5   | 101   | 0.28    | 83000   | 44      | 690     | 1.2     | 0.31    | 11000   | 0.26    |
|                                             |           | MEDIAN             |         |          | 65                 | 15                               | 5.6                              | 2.2   | 1.5   | 3.3                 | 2.2                | 0.60               | 0.13                            | 0.08  | 0.05                             | 0.02                            | 3.9   | 101   | 0.26    | 82000   | 40      | 610     | 1.2     | 0.22    | 10000   | 0.21    |
|                                             |           | AVERAGE            |         |          | 65                 | 15                               | 5.6                              | 2.1   | 1.6   | 3.3                 | 2.1                | 0.58               | 0.13                            | 0.08  | 0.05                             | 0.02                            | 4.7   | 101   | 0.26    | 80000   | 38.0    | 600     | 1.2     | 0.22    | 10333   | 0.22    |
|                                             |           | STANDARD DEVIATION |         |          | 0.82               | 0.95                             | 0.55                             | 0.55  | 0.13  | 0.20                | 0.23               | 0.07               | 0.01                            | 0.01  | 0.01                             | 0.00                            | 1.6   | 0.20  | 0.02    | 4359    | 7       | 95      | 0.06    | 0.09    | 577     | 0.04    |
|                                             |           | 75TH PERCENTILE    |         |          | 66                 | 16                               | 5.9                              | 2.4   | 1.6   | 3.4                 | 2.2                | 0.62               | 0.14                            | 0.09  | 0.06                             | 0.02                            | 5.2   | 101   | 0.27    | 82500   | 42      | 650     | 1.2     | 0.27    | 10500   | 0.24    |
| B03                                         | B3-01     | Till               | 539344  | 6987509  | 71                 | 13                               | 3.9                              | 1.4   | 2.1   | 3.3                 | 2.0                | 0.43               | 0.14                            | 0.07  | 0.04                             | < 0.01                          | 1.8   | 99    | 0.30    | 63000   | 24      | 600     | 1.1     | 0.14    | 13000   | 0.16    |
| B03                                         | B3-02     | Till               | 539323  | 6987523  | 71                 | 13                               | 4.1                              | 1.5   | 2.3   | 3.5                 | 2.1                | 0.45               | 0.14                            | 0.08  | 0.04                             | 0.02                            | 2.2   | 101   | 0.31    | 72000   | 35      | 560     | 1.2     | 0.14    | 18000   | 0.25    |
| B03                                         | B3-03     | Till               | 539340  | 6987549  | 69                 | 13                               | 4.8                              | 1.8   | 3.0   | 3.2                 | 1.9                | 0.51               | 0.13                            | 0.09  | 0.05                             | 0.01                            | 3.1   | 101   | 0.32    | 71000   | 42      | 680     | 1.1     | 0.17    | 21000   | 0.24    |
|                                             |           | MINIMUM            |         |          | 69                 | 13                               | 3.9                              | 1.4   | 2.1   | 3.2                 | 1.9                | 0.43               | 0.13                            | 0.07  | 0.04                             | < 0.01                          | 1.8   | 99    | 0.30    | 63000   | 24      | 580     | 1.1     | 0.14    | 13000   | 0.16    |
|                                             |           | MAXIMUM            |         |          | 71                 | 13                               | 4.8                              | 1.8   | 3.0   | 3.3                 | 2.1                | 0.51               | 0.14                            | 0.09  | 0.05                             | 0.02                            | 3.1   | 101   | 0.32    | 72000   | 42      | 660     | 1.2     | 0.17    | 21000   | 0.25    |
|                                             |           | MEDIAN             |         |          | 71                 | 13                               | 4.1                              | 1.5   | 2.5   | 3.3                 | 2.0                | 0.45               | 0.14                            | 0.08  | 0.04                             | nc                              | 2.2   | 101   | 0.31    | 71000   | 33      | 600     | 1.1     | 0.14    | 18000   | 0.24    |
|                                             |           | AVERAGE            |         |          | 71                 | 13                               | 4.2                              | 1.6   | 2.5   | 3.3                 | 2.0                | 0.46               | 0.14                            | 0.08  | 0.04                             | nc                              | 2.4   | 100   | 0.31    | 68667   | 33      | 613     | 1.1     | 0.15    | 17333   | 0.22    |
|                                             |           | STANDARD DEVIATION |         |          | 1.1                | 0.26                             | 0.48                             | 0.22  | 0.45  | 0.08                | 0.13               | 0.04               | 0.01                            | 0.01  | 0.01                             | nc                              | 0.69  | 0.92  | 0.01    | 4933    | 9.0     | 42      | 0.06    | 0.02    | 4041    | 0.05    |
|                                             |           | 75TH PERCENTILE    |         |          | 71                 | 13                               | 4.4                              | 1.7   | 2.8   | 3.3                 | 2.1                | 0.48               | 0.14                            | 0.09  | 0.05                             | nc                              | 2.6   | 101   | 0.32    | 71500   | 38      | 630     | 1.2     | 0.16    | 19500   | 0.25    |
| B05                                         | B5-01     | Till               | 540880  | 6985863  | 68                 | 14                               | 5.2                              | 1.9   | 2.0   | 3.5                 | 1.9                | 0.49               | 0.11                            | 0.10  | 0.04                             | 0.02                            | 2.9   | 100   | 0.21    | 75000   | 43      | 530     | 1.2     | < 0.09  | 14000   | 0.16    |
| B05                                         | B5-02     | Till               | 540833  | 6985831  | 69                 | 13                               | 5.2                              | 1.9   | 2.4   | 3.2                 | 1.9                | 0.52               | 0.14                            | 0.10  | 0.05                             | 0.02                            | 1.9   | 100   | 0.28    | 72000   | 36      | 600     | 1.2     | 0.18    | 17000   | 0.19    |
| B05                                         | B5-03     | Till               | 540891  | 6985825  | 69                 | 14                               | 4.7                              | 2.0   | 2.4   | 3.5                 | 2.0                | 0.46               | 0.12                            | 0.08  | 0.04                             | 0.01                            | 2.9   | 101   | 0.20    | 75000   | 25      | 640     | 1.2     | 0.13    | 16000   | 0.13    |
|                                             |           | MINIMUM            |         |          | 68                 | 13                               | 4.7                              | 1.9   | 2.0   | 3.2                 | 1.9                | 0.46               | 0.11                            | 0.08  | 0.04                             | 0.01                            | 1.9   | 100   | 0.20    | 72000   | 25      | 530     | 1.2     | < 0.09  | 14000   | 0.13    |
|                                             |           | MAXIMUM            |         |          | 69                 | 14                               | 5.2                              | 2.0   | 2.4   | 3.5                 | 2.0                | 0.52               | 0.14                            | 0.10  | 0.05                             | 0.02                            | 2.9   | 101   | 0.28    | 75000   | 43      | 640     | 1.2     | 0.18    | 17000   | 0.19    |
|                                             |           | MEDIAN             |         |          | 69                 | 14                               | 5.2                              | 1.9   | 2.4   | 3.5                 | 1.9                | 0.49               | 0.12                            | 0.10  | 0.04                             | 0.02                            | 2.9   | 100   | 0.21    | 75000   | 36      | 600     | 1.2     | nc      | 16000   | 0.16    |
|                                             |           | AVERAGE            |         |          | 69                 | 14                               | 5.0                              | 1.9   | 2.3   | 3.4                 | 2.0                | 0.49               | 0.12                            | 0.09  | 0.04                             | 0.02                            | 2.6   | 100   | 0.23    | 74000   | 35      | 590     | 1.2     | nc      | 15667   | 0.16    |
|                                             |           | STANDARD DEVIATION |         |          | 0.57               | 0.46                             | 0.27                             | 0.04  | 0.21  | 0.17                | 0.07               | 0.02               | 0.01                            | 0.01  | 0.01                             | 0.58                            | 0.70  | 0.04  | 1732    | 9.1     | 56      | 0.00    | nc      | 1528    | 0.03    |         |
|                                             |           | 75TH PERCENTILE    |         |          | 69                 | 14                               | 5.2                              | 1.9   | 2.4   | 3.5                 | 2.0                | 0.51               | 0.13                            | 0.10  | 0.05                             | 0.02                            | 2.9   | 101   | 0.25    | 75000   | 40      | 620     | 1.2     | nc      | 16500   | 0.18    |
| B06A                                        | B6A-01    | Till               | 542237  | 6984595  | 70                 | 13                               | 4.7                              | 2.0   | 2.4   | 3.4                 | 1.8                | 0.44               | 0.09                            | 0.10  | 0.05                             | 0.01                            | 1.8   | 100   | 0.19    | 72000   | 11      | 500     | 1.2     | < 0.09  | 16000   | 0.15    |
| B06A                                        | B6A-02    | Till               | 542187  | 6984598  | 72                 | 13                               | 4.1                              | 1.6   | 2.1   | 3.3                 | 1.8                | 0.38               | 0.08                            | 0.09  | 0.06                             | 0.01                            | 1.9   | 100   | 0.17    | 67000   | 13      | 520     | 1.2     | < 0.09  | 15000   | 0.13    |
| B06A                                        | B6A-03    | Till               | 542212  | 6984637  | 71                 | 13                               | 4.0                              | 1.6   | 1.8   | 3.6                 | 1.9                | 0.39               | 0.09                            | 0.08  | 0.04                             | < 0.01                          | 1.8   | 100   | 0.19    | 73000   | 11      | 550     | 1.2     | < 0.09  | 13000   | 0.14    |
|                                             |           | MINIMUM            |         |          | 70                 | 13                               | 4.0                              | 1.6   | 1.8   | 3.3                 | 1.8                | 0.38               | 0.08                            | 0.08  | 0.04                             | < 0.01                          | 1.8   | 100   | 0.17    | 67000   | 11      | 500     | 1.2     | < 0.09  | 13000   | 0.13    |
|                                             |           | MAXIMUM            |         |          | 72                 | 13                               | 4.7                              | 2.0   | 2.4   | 3.6                 | 1.9                | 0.44               | 0.09                            | 0.09  | 0.06                             | 0.01                            | 1.9   | 100   | 0.19    | 73000   | 13      | 550     | 1.2     | < 0.09  | 16000   | 0.15    |
|                                             |           | MEDIAN             |         |          | 71                 | 13                               | 4.1                              | 1.6   | 2.1   | 3.4                 | 1.8                | 0.39               | 0.09                            | 0.09  | 0.05                             | nc                              | 1.8   | 100   | 0.19    | 72000   | 11      | 520     | 1.2     | nc      | 15000   | 0.14    |
|                                             |           | AVERAGE            |         |          | 71                 | 13                               | 4.3                              | 1.7   | 2.1   | 3.4                 | 1.8                | 0.40               | 0.09                            | 0.09  | 0.05                             | nc                              | 1.8   | 100   | 0.18    | 70667   | 12      | 523     | 1.2     | nc      | 14667   | 0.14    |
|                                             |           | STANDARD DEVIATION |         |          | 1.0                | 0.44                             | 0.39                             | 0.21  | 0.27  | 0.15                | 0.06               | 0.03               | 0.01                            | 0.01  | 0.01                             | nc                              | 0.04  | 0.15  | 0.01    | 3215    | 1.2     | 25      | 0.00    | nc      | 1528    | 0.01    |
|                                             |           | 75TH PERCENTILE    |         |          | 71                 | 13                               | 4.4                              | 1.8   | 2.2   | 3.5                 | 1.8                | 0.42               | 0.09                            | 0.10  | 0.06                             | nc                              | 1.8   | 100   | 0.19    | 72500   | 12      | 535     | 1.2     | nc      | 15500   | 0.15    |
| B08                                         | B8-01     | Till               | 543567  | 6983989  | 67                 | 14                               | 5.1                              | 2.2   | 2.1   | 3.4                 | 2.2                | 0.50               | 0.11                            | 0.10  | 0.05                             | 0.02                            | 2.9   | 100   | 0.22    | 78000   | 9.4     | 640     | 1.1     | 0.10    | 15000   | 0.18    |
| B08                                         | B8-02     | Till               | 543588  | 6983993  | 68                 | 14                               | 4.8                              | 2.0   | 2.2   | 3.4                 | 1.9                | 0.43               | 0.09                            | 0.10  | 0.05                             | 0.01                            | 3.2   | 100   | 0.19    | 76000   | 74      | 570     | 1.2     | 0.12    | 16000   | 0.15    |
| B08                                         | B8-03     | Till               | 543569  | 6984023  | 66                 | 15                               | 5.2                              | 2.3   | 2.3   | 3.5                 | 2.0                | 0.50               | 0.12                            | 0.10  | 0.05                             | 0.01                            | 3.0   | 100   | 0.24    | 80000   | 15      | 580     | 1.3     | < 0.09  | 16000   | 0.16    |
|                                             |           | MINIMUM            |         |          | 66                 | 14                               | 4.8                              | 2.0   | 2.1   | 3.4                 | 1.9                | 0.43               | 0.09                            | 0.10  | 0.05                             | 0.01                            | 2.9   | 100   | 0.19    | 76000   | 9.4     | 570     | 1.1     | < 0.09  | 15000   | 0.15    |
|                                             |           | MAXIMUM            |         |          | 68                 | 15                               | 5.2                              | 2.3   | 2.3   | 3.5                 | 2.2                | 0.50               | 0.12                            | 0.10  | 0.05                             | 0.02                            | 3.2   | 100   | 0.24    | 80000   | 74      | 640     | 1.3     | 0.12    | 16000   | 0.18    |
|                                             |           | MEDIAN             |         |          | 67                 | 14                               | 5.1                              | 2.2   | 2.2   | 3.4                 | 2.0                | 0.50               | 0.11                            | 0.10  | 0.05                             | 0.01                            | 3.0   | 100   | 0.22    | 78000   | 15      | 580     | 1.2     | nc      | 16000   | 0.16    |
|                                             |           | AVERAGE            |         |          | 67                 | 14                               | 5.0                              | 2.1   | 2.2   | 3.5                 | 2.0                | 0.48               | 0.11                            | 0.10  | 0.05                             | 0.01                            | 3.0   | 100   | 0.22    | 78000   | 33      | 597     | 1.2     | nc      | 15667   | 0.16    |
|                                             |           | STANDARD DEVIATION |         |          | 1.2                | 0.53                             | 0.24                             | 0.16  | 0.12  | 0.07                | 0.14               | 0.04               | 0.02                            | 0.00  | 0.01                             | 0.13                            | 0.25  | 0.03  | 2000    | 36      | 38      | 1.0     | nc      | 577     | 0.02    |         |
|                                             |           | 75TH PERCENTILE    |         |          | 67                 | 15                               | 5.2                              | 2.2   | 2.3   | 3.5                 | 2.1                | 0.50               | 0.12                            | 0.10  | 0.05                             | 0.02                            | 3.1   | 100   | 0.23    | 79000   | 45      | 610     | 1.3     | nc      | 16000   | 0.17    |
| B10                                         | B10-01    | Till               | 545525  | 6980771  | 68                 | 14                               | 4.8                              | 1.9   | 2.4   | 3.8                 | 1.7                | 0.48               | 0.10                            | 0.09  | 0.04                             | 0.01                            | 3.1   | 100   | 0.21    | 78000   | 2.6     | 490     | 1.1     | 0.21    | 17000   | 0.18    |
| B10                                         | B10-02    | Till               | 545560  | 6980764  | 66                 | 14                               | 5.4                              | 2.1   | 2.8   | 3.8                 | 1.6                | 0.49               | 0.11                            | 0.10  | 0.05                             | 0.01                            | 2.4   | 99    | 0.21    | 80000   | 3.5     | 570     | 1.0     | 0.18    | 21000   | 0.18    |
| B10                                         | B10-03    | Till               | 545495  | 6980798  | 68                 | 15                               | 4.9                              | 1.9   | 2.9   | 4.0                 | 1.5                | 0.49               | 0.11                            | 0.09  | 0.05                             | 0.02                            | 2.1   | 101   | 0.22    | 78000   | 2.9     | 400     | 1.1     | 0.18    | 21000   | 0.25    |
|                                             |           | MINIMUM            |         |          | 66                 | 14                               | 4.8                              | 1.9   | 2.4   | 3.8                 | 1.5                | 0.48               | 0.10                            | 0.09  | 0.04                             | 0.01                            | 2.1   | 99    | 0.21    | 78000   | 2.6     | 400     | 1.0     | 0.18    | 17000   | 0.18    |
|                                             |           | MAXIMUM            |         |          | 68                 | 15                               | 5.4                              | 2.1   | 2.9   | 4.0                 | 1.7                | 0.49               | 0.11                            | 0.10  | 0.05                             | 0.02                            | 3.1   | 101   | 0.22    | 80000   | 3.5     | 570     | 1.1     | 0.21    | 21000   | 0.25    |
|                                             |           | MEDIAN             |         |          | 68                 | 14                               | 4.9                              | 1.9   | 2.8   | 3.8                 | 1.6                | 0.49               | 0.11                            | 0.09  | 0.05                             | 0.01                            | 2.4   | 100   | 0.21    | 78000   | 2.9     | 490     | 1.1     | 0.18    | 21000   | 0.18    |
|                                             |           | AVERAGE            |         |          | 67                 | 14                               | 5.0                              | 2.0   | 2.7   | 3.8                 | 1.6                | 0.49               | 0.11                            | 0.09  | 0.05                             | 0.01                            | 2.5   | 100   | 0.21    | 78667   | 3.0     | 487     | 1.1     | 0.19    | 19667   | 0.20    |
|                                             |           | STANDARD DEVIATION |         |          | 0.87               | 0.25                             | 0.33                             | 0.12  | 0.26  | 0.14                | 0.08               | 0.01               | 0.01                            | 0.01  | 0.01                             | 0.52                            | 0.61  | 0.01  |         |         |         |         |         |         |         |         |

Appendix A.1  
Chemical Composition - Esker (Till) Material for Road Construction  
Meliadine Project, Nunavut  
Agnico-Eagle Mines Ltd

| CCME Industrial Soil Guideline <sup>1</sup> |           |             |         |          |                    | 87         | 91         |            |           |            |            |            |            |            |            |           |            | 50         | 600        |            | 2.9        |            |            |           | 1.0       | 300       | 130        | 360 |  |
|---------------------------------------------|-----------|-------------|---------|----------|--------------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|------------|-----------|-----------|-----------|------------|-----|--|
| PROPOSED LOCATION                           | SAMPLE ID | SAMPLE TYPE | EASTING | NORTHING | Co<br>µg/g         | Cr<br>µg/g | Cu<br>µg/g | Fe<br>µg/g | K<br>µg/g | Li<br>µg/g | Mg<br>µg/g | Mn<br>µg/g | Mo<br>µg/g | Na<br>µg/g | Ni<br>µg/g | P<br>µg/g | Pb<br>µg/g | Sb<br>µg/g | Se<br>µg/g | Sn<br>µg/g | Sr<br>µg/g | Ti<br>µg/g | Tl<br>µg/g | U<br>µg/g | V<br>µg/g | Y<br>µg/g | Zn<br>µg/g |     |  |
| B01A                                        | B1A-01    | Till        | 539731  | 6988294  | 10                 | 290        | 10         | 38000      | 23000     | 25         | 13000      | 340        | 5.4        | 25000      | 30         | 540       | 13         | <0.8       | <0.7       | 1.7        | 310        | 1900       | 0.39       | 1.5       | 78        | 8.0       | 79         |     |  |
| B01A                                        | B1A-02    | Till        | 539677  | 6988318  | 12                 | 260        | 19         | 35000      | 19000     | 17         | 9000       | 470        | 1.9        | 22000      | 30         | 510       | 12         | <0.8       | <0.7       | 3.6        | 310        | 1900       | 0.33       | 1.2       | 67        | 7.3       | 64         |     |  |
| B01A                                        | B1A-03    | Till        | 539620  | 6988359  | 12                 | 260        | 11         | 43000      | 22000     | 27         | 16000      | 400        | 4.6        | 24000      | 30         | 570       | 13         | <0.8       | <0.7       | 2.0        | 320        | 2800       | 0.46       | 1.6       | 90        | 9.5       | 81         |     |  |
|                                             |           |             |         |          | MINIMUM            | 10         | 260        | 10         | 35000     | 19000      | 17         | 9000       | 340        | 1.9        | 22000      | 30        | 510        | 12         | <0.8       | <0.7       | 1.7        | 310        | 1900       | 0.33      | 1.2       | 67        | 7.3        | 64  |  |
|                                             |           |             |         |          | MAXIMUM            | 12         | 360        | 19         | 43000     | 23000      | 27         | 16000      | 470        | 5.4        | 25000      | 30        | 570        | 13         | <0.8       | <0.7       | 3.6        | 350        | 2800       | 0.46      | 1.6       | 90        | 9.5        | 81  |  |
|                                             |           |             |         |          | MEDIAN             | 12         | 290        | 11         | 38000     | 22000      | 25         | 13000      | 400        | 4.6        | 24000      | 30        | 540        | 13         | nc         | nc         | 2.0        | 320        | 2500       | 0.39      | 1.5       | 78        | 8.0        | 79  |  |
|                                             |           |             |         |          | AVERAGE            | 11         | 303        | 13         | 38667     | 21333      | 23         | 12667      | 403        | 4.0        | 23667      | 30        | 540        | 13         | nc         | nc         | 2.4        | 327        | 2400       | 0.39      | 1.4       | 78        | 8.3        | 75  |  |
|                                             |           |             |         |          | STANDARD DEVIATION | 1.2        | 51         | 4.9        | 4041      | 2082       | 5.3        | 3512       | 65         | 1.8        | 1528       | 0.0       | 30         | 0.58       | nc         | nc         | 1.0        | 21         | 458        | 0.07      | 0.21      | 12        | 1.1        | 9.3 |  |
|                                             |           |             |         |          | 75TH PERCENTILE    | 12         | 325        | 15         | 40500     | 22500      | 26         | 14500      | 435        | 5.0        | 24500      | 30        | 555        | 13         | nc         | nc         | 2.8        | 335        | 2650       | 0.43      | 1.6       | 84        | 8.8        | 80  |  |
| B03                                         | B3-01     | Till        | 539344  | 6987509  | 11                 | 290        | 28         | 26000      | 19000     | 13         | 7900       | 280        | 1.6        | 22000      | 27         | 590       | 14         | <0.8       | <0.7       | 1.3        | 320        | 2000       | 0.38       | 1.3       | 41        | 9.4       | 53         |     |  |
| B03                                         | B3-02     | Till        | 539323  | 6987523  | 11                 | 230        | 28         | 30000      | 22000     | 17         | 10000      | 370        | 4.3        | 25000      | 27         | 670       | 16         | <0.8       | <0.7       | 1.9        | 330        | 2200       | 0.42       | 1.3       | 53        | 10        | 58         |     |  |
| B03                                         | B3-03     | Till        | 539340  | 6987549  | 15                 | 300        | 37         | 34000      | 19000     | 18         | 12000      | 420        | 1.4        | 23000      | 39         | 560       | 14         | <0.8       | <0.7       | 1.8        | 320        | 2200       | 0.37       | 1.2       | 63        | 11        | 62         |     |  |
|                                             |           |             |         |          | MINIMUM            | 11         | 230        | 28         | 26000     | 19000      | 13         | 7900       | 280        | 1.4        | 22000      | 27        | 560        | 14         | <0.8       | <0.7       | 1.3        | 320        | 2000       | 0.37      | 1.2       | 41        | 9.4        | 53  |  |
|                                             |           |             |         |          | MAXIMUM            | 15         | 300        | 37         | 34000     | 22000      | 18         | 12000      | 420        | 1.4        | 23000      | 39        | 560        | 14         | <0.8       | <0.7       | 1.9        | 330        | 2200       | 0.42      | 1.3       | 53        | 11.0       | 62  |  |
|                                             |           |             |         |          | MEDIAN             | 11         | 290        | 28         | 30000     | 19000      | 17         | 10000      | 370        | 1.6        | 23000      | 27        | 590        | 14         | nc         | nc         | 1.8        | 320        | 2200       | 0.38      | 1.3       | 53        | 10.0       | 58  |  |
|                                             |           |             |         |          | AVERAGE            | 12         | 273        | 31         | 30000     | 20000      | 16         | 9967       | 357        | 2.4        | 23333      | 31        | 607        | 15         | nc         | nc         | 1.7        | 323        | 2133       | 0.39      | 1.3       | 52        | 10.1       | 58  |  |
|                                             |           |             |         |          | STANDARD DEVIATION | 2.3        | 38         | 5.2        | 4000      | 1732       | 2.6        | 2050       | 71         | 1.6        | 1528       | 6.9       | 57         | 1.2        | nc         | nc         | 0.32       | 5.8        | 115        | 0.03      | 0.06      | 11        | 0.8        | 4.5 |  |
|                                             |           |             |         |          | 75TH PERCENTILE    | 13         | 295        | 33         | 32000     | 20500      | 18         | 11000      | 395        | 3.0        | 24000      | 33        | 630        | 15         | nc         | nc         | 1.9        | 325        | 2200       | 0.40      | 1.3       | 58        | 10.5       | 60  |  |
| B05                                         | B5-01     | Till        | 540880  | 6985863  | 12                 | 290        | 11         | 37000      | 20000     | 17         | 12000      | 430        | 1.4        | 26000      | 28         | 470       | 13         | <0.8       | <0.7       | 1.6        | 300        | 2600       | 0.38       | 1.3       | 66        | 8.7       | 62         |     |  |
| B05                                         | B5-02     | Till        | 540833  | 6985831  | 15                 | 220        | 29         | 37000      | 20000     | 14         | 12000      | 480        | 3.9        | 24000      | 36         | 600       | 15         | <0.8       | <0.7       | 1.9        | 310        | 2700       | 0.40       | 1.4       | 68        | 11.0      | 61         |     |  |
| B05                                         | B5-03     | Till        | 540891  | 6985825  | 12                 | 260        | 22         | 34000      | 21000     | 17         | 12000      | 430        | 1.2        | 26000      | 31         | 530       | 13         | <0.8       | <0.7       | 2.0        | 320        | 2400       | 0.38       | 1.2       | 62        | 9.2       | 64         |     |  |
|                                             |           |             |         |          | MINIMUM            | 12         | 220        | 11         | 34000     | 20000      | 14         | 12000      | 430        | 1.2        | 24000      | 28        | 470        | 13         | <0.8       | <0.7       | 1.6        | 300        | 2400       | 0.38      | 1.2       | 62        | 8.7        | 61  |  |
|                                             |           |             |         |          | MAXIMUM            | 15         | 290        | 29         | 37000     | 21000      | 17         | 12000      | 480        | 3.9        | 26000      | 36        | 600        | 15         | <0.8       | <0.7       | 2.0        | 320        | 2700       | 0.40      | 1.4       | 68        | 11.0       | 64  |  |
|                                             |           |             |         |          | MEDIAN             | 12         | 260        | 22         | 37000     | 20000      | 17         | 12000      | 430        | 1.4        | 26000      | 31        | 530        | 13         | nc         | nc         | 1.9        | 310        | 2600       | 0.38      | 1.3       | 66        | 9.2        | 62  |  |
|                                             |           |             |         |          | AVERAGE            | 13         | 257        | 21         | 36000     | 20333      | 16         | 12000      | 447        | 2.2        | 25333      | 32        | 533        | 14         | nc         | nc         | 1.8        | 310        | 2567       | 0.39      | 1.3       | 65        | 9.6        | 62  |  |
|                                             |           |             |         |          | STANDARD DEVIATION | 1.7        | 35         | 9.1        | 1732      | 577        | 1.7        | 0          | 29         | 1.5        | 1155       | 4.0       | 65         | 1.2        | nc         | nc         | 0.21       | 10         | 153        | 0.01      | 0.10      | 3.1       | 1.2        | 1.5 |  |
|                                             |           |             |         |          | 75TH PERCENTILE    | 14         | 275        | 26         | 37000     | 20500      | 17         | 12000      | 455        | 2.7        | 26000      | 34        | 565        | 14         | nc         | nc         | 2.0        | 315        | 2650       | 0.39      | 1.4       | 67        | 10.1       | 63  |  |
| B06A                                        | B6A-01    | Till        | 542237  | 6984595  | 13                 | 270        | 15         | 33000      | 18000     | 15         | 12000      | 450        | 5.2        | 25000      | 31         | 390       | 12         | <0.8       | <0.7       | 1.8        | 280        | 2400       | 0.38       | 1.2       | 63        | 8.8       | 56         |     |  |
| B06A                                        | B6A-02    | Till        | 542187  | 6984598  | 11                 | 320        | 10         | 30000      | 18000     | 14         | 10000      | 380        | 1.5        | 24000      | 25         | 380       | 12         | <0.8       | <0.7       | 1.4        | 300        | 2200       | 0.34       | 1.0       | 50        | 7.7       | 57         |     |  |
| B06A                                        | B6A-03    | Till        | 542212  | 6984637  | 10                 | 280        | 15         | 29000      | 19000     | 17         | 10000      | 360        | 5.1        | 26000      | 25         | 380       | 12         | <0.8       | <0.7       | 1.7        | 320        | 2100       | 0.37       | 1.2       | 54        | 7.7       | 61         |     |  |
|                                             |           |             |         |          | MINIMUM            | 10         | 270        | 10         | 29000     | 18000      | 14         | 10000      | 360        | 1.5        | 24000      | 25        | 380        | 12         | <0.8       | <0.7       | 1.4        | 280        | 2100       | 0.34      | 1.0       | 50        | 7.7        | 56  |  |
|                                             |           |             |         |          | MAXIMUM            | 13         | 320        | 15         | 33000     | 19000      | 17         | 12000      | 450        | 5.2        | 26000      | 31        | 390        | 12         | <0.8       | <0.7       | 1.8        | 300        | 2400       | 0.38      | 1.2       | 63        | 8.8        | 61  |  |
|                                             |           |             |         |          | MEDIAN             | 11         | 280        | 15         | 30000     | 18000      | 15         | 10000      | 380        | 5.1        | 25000      | 25        | 380        | 12         | nc         | nc         | 1.7        | 300        | 2200       | 0.37      | 1.2       | 54        | 7.7        | 57  |  |
|                                             |           |             |         |          | AVERAGE            | 11         | 290        | 13         | 30667     | 18333      | 15         | 10667      | 397        | 3.9        | 25000      | 27        | 383        | 12         | nc         | nc         | 1.6        | 300        | 2233       | 0.36      | 1.1       | 56        | 8.1        | 58  |  |
|                                             |           |             |         |          | STANDARD DEVIATION | 1.5        | 26         | 2.9        | 2082      | 577        | 1.5        | 1155       | 47         | 2.1        | 1000       | 3.5       | 5.8        | 0.00       | nc         | nc         | 0.21       | 20         | 153        | 0.02      | 0.12      | 6.7       | 0.6        | 2.6 |  |
|                                             |           |             |         |          | 75TH PERCENTILE    | 12         | 300        | 15         | 31500     | 18500      | 16         | 11000      | 415        | 5.2        | 25500      | 28        | 385        | 12         | nc         | nc         | 1.8        | 310        | 2300       | 0.38      | 1.2       | 59        | 8.3        | 59  |  |
| B08                                         | B8-01     | Till        | 543567  | 6983989  | 22                 | 310        | 12         | 36000      | 22000     | 24         | 14000      | 420        | 3.6        | 25000      | 62         | 490       | 13         | <0.8       | <0.7       | 1.1        | 310        | 2700       | 0.38       | 1.3       | 69        | 8.1       | 74         |     |  |
| B08                                         | B8-02     | Till        | 543588  | 6983993  | 15                 | 300        | 20         | 34000      | 20000     | 17         | 12000      | 440        | 6.2        | 25000      | 31         | 370       | 12         | <0.8       | <0.7       | 1.2        | 310        | 2400       | 0.35       | 1.1       | 64        | 7.9       | 61         |     |  |
| B08                                         | B8-03     | Till        | 543569  | 6984023  | 14                 | 290        | 16         | 37000      | 21000     | 22         | 14000      | 450        | 1.3        | 26000      | 35         | 550       | 13         | <0.8       | <0.7       | 1.4        | 310        | 2900       | 0.43       | 1.6       | 68        | 8.8       | 69         |     |  |
|                                             |           |             |         |          | MINIMUM            | 14         | 290        | 12         | 34000     | 20000      | 17         | 12000      | 420        | 1.3        | 27000      | 31        | 370        | 12         | <0.8       | <0.7       | 1.1        | 310        | 2400       | 0.35      | 1.1       | 64        | 7.9        | 61  |  |
|                                             |           |             |         |          | MAXIMUM            | 22         | 310        | 20         | 37000     | 22000      | 24         | 14000      | 450        | 6.2        | 26000      | 62        | 550        | 13         | <0.8       | <0.7       | 1.4        | 310        | 2900       | 0.43      | 1.6       | 69        | 8.8        | 74  |  |
|                                             |           |             |         |          | MEDIAN             | 15         | 300        | 16         | 36000     | 21000      | 22         | 14000      | 440        | 3.6        | 25000      | 35        | 490        | 13         | nc         | nc         | 1.2        | 310        | 2700       | 0.38      | 1.3       | 68        | 8.1        | 69  |  |
|                                             |           |             |         |          | AVERAGE            | 17         | 300        | 16         | 35667     | 21000      | 21         | 13333      | 437        | 3.7        | 25333      | 43        | 470        | 13         | nc         | nc         | 1.2        | 310        | 2667       | 0.39      | 1.3       | 67        | 8.3        | 68  |  |
|                                             |           |             |         |          | STANDARD DEVIATION | 4.4        | 10         | 4.0        | 1528      | 1000       | 3.6        | 1155       | 15         | 2.5        | 577        | 17        | 92         | 0.6        | nc         | nc         | 0.15       | 0          | 252        | 0.04      | 0.25      | 2.6       | 0.5        | 6.6 |  |
|                                             |           |             |         |          | 75TH PERCENTILE    | 19         | 305        | 18         | 36500     | 21500      | 23         | 14000      | 445        | 4.9        | 25500      | 49        | 520        | 13         | nc         | nc         | 1.3        | 310        | 2800       | 0.41      | 1.5       | 69        | 8.5        | 72  |  |
| B10                                         | B10-01    | Till        | 545525  | 6980771  | 11                 | 290        | 10         | 35000      | 18000     | 17         | 12000      | 420        | 6.0        | 28000      | 24         | 450       | 12         | <0.8       | <0.7       | 1.9        | 310        | 2800       | 0.30       | 1.2       | 56        | 7.4       | 62         |     |  |
| B10                                         | B10-02    | Till        | 545560  | 6980764  | 14                 | 290        | 12         | 40000      | 17000     | 18         | 14000      | 460        | 1.5        | 18000      | 29         | 490       | 11         | <0.8       | <0.7       | <0.5       | 340        | 3100       | 0.28       | 1.1       | 60        | 8.4       | 68         |     |  |
| B10                                         | B10-03    | Till        | 545495  | 6980798  | 14                 | 240        | 13         |            |           |            |            |            |            |            |            |           |            |            |            |            |            |            |            |           |           |           |            |     |  |

Appendix A.1  
Chemical Composition - Esker (Till) Material for Road Construction  
Meliadine Project, Nunavut  
Agnico-Eagle Mines Ltd

| CCME Industrial Soil Guideline <sup>1</sup> |           |             |                    |          |        |         |         |       |       |        |       |        |        |       |         |        |       |       |         | 12      | 2000    |         |         |         |         | 22      |
|---------------------------------------------|-----------|-------------|--------------------|----------|--------|---------|---------|-------|-------|--------|-------|--------|--------|-------|---------|--------|-------|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| PROPOSED LOCATION                           | SAMPLE ID | SAMPLE TYPE | EASTING            | NORTHING | SiO2 % | Al2O3 % | Fe2O3 % | MgO % | CaO % | Na2O % | K2O % | TiO2 % | P2O5 % | MnO % | Cr2O3 % | V2O5 % | LOI % | Sum % | Ag µg/g | Al µg/g | As µg/g | Ba µg/g | Be µg/g | Bi µg/g | Ca µg/g | Cd µg/g |
| B15                                         | B15-01    | Till        | 546192             | 6972523  | 69     | 14      | 5.0     | 1.9   | 2.6   | 3.3    | 2.3   | 0.46   | 0.13   | 0.08  | 0.04    | 0.01   | 2.2   | 101   | 0.25    | 70000   | 1.9     | 550     | 1.5     | 0.26    | 18000   | 0.20    |
| B15                                         | B15-02    | Till        | 546107             | 6972573  | 77     | 11      | 3.2     | 1.1   | 2.0   | 2.9    | 1.9   | 0.33   | 0.10   | 0.06  | 0.05    | 0.01   | 1.1   | 100   | 0.25    | 57000   | 2.5     | 510     | 1.2     | 0.22    | 14000   | 0.17    |
| B15                                         | B15-03    | Till        | 546250             | 6972511  | 68     | 14      | 4.1     | 1.7   | 2.6   | 3.6    | 2.5   | 0.39   | 0.11   | 0.08  | 0.04    | 0.01   | 1.6   | 99    | 0.24    | 78000   | 2.0     | 720     | 1.3     | 0.26    | 18000   | 0.18    |
|                                             |           |             | MINIMUM            |          | 68     | 11      | 3.2     | 1.1   | 2.0   | 2.9    | 1.9   | 0.33   | 0.10   | 0.06  | 0.04    | 0.01   | 1.1   | 99    | 0.24    | 57000   | 1.9     | 510     | 1.2     | 0.22    | 14000   | 0.17    |
|                                             |           |             | MAXIMUM            |          | 77     | 14      | 5.0     | 1.9   | 2.6   | 3.6    | 2.5   | 0.46   | 0.13   | 0.08  | 0.05    | 0.01   | 2.2   | 101   | 0.25    | 78000   | 2.5     | 720     | 1.5     | 0.26    | 18000   | 0.20    |
|                                             |           |             | MEDIAN             |          | 69     | 14      | 4.1     | 1.7   | 2.6   | 3.3    | 2.3   | 0.39   | 0.11   | 0.08  | 0.04    | 0.01   | 1.6   | 100   | 0.25    | 70000   | 2.0     | 550     | 1.3     | 0.26    | 18000   | 0.18    |
|                                             |           |             | AVERAGE            |          | 71     | 13      | 4.1     | 1.5   | 2.4   | 3.2    | 2.2   | 0.39   | 0.11   | 0.07  | 0.04    | 0.01   | 1.6   | 100   | 0.25    | 68333   | 2.1     | 593     | 1.3     | 0.25    | 16667   | 0.18    |
|                                             |           |             | STANDARD DEVIATION |          | 4.8    | 1.9     | 0.92    | 0.44  | 0.31  | 0.36   | 0.32  | 0.07   | 0.02   | 0.01  | 0.01    | 0.00   | 0.54  | 0.87  | 0.01    | 10599   | 0.32    | 112     | 0.15    | 0.02    | 2309    | 0.02    |
|                                             |           |             | 75TH PERCENTILE    |          | 73     | 14      | 4.6     | 1.8   | 2.6   | 3.4    | 2.4   | 0.43   | 0.12   | 0.08  | 0.05    | 0.01   | 1.9   | 101   | 0.25    | 74000   | 2.25    | 635     | 1.4     | 0.26    | 18000   | 0.19    |
| B18                                         | B18-01    | Till        | 546920             | 6971177  | 65     | 16      | 6.2     | 2.8   | 2.4   | 3.3    | 2.1   | 0.62   | 0.13   | 0.09  | 0.05    | 0.02   | 2.1   | 101   | 0.27    | 83000   | 13      | 530     | 1.2     | 0.18    | 17000   | 0.20    |
| B18                                         | B18-02    | Till        | 546820             | 6971241  | 67     |         | 5.5     | 2.2   | 2.6   | 3.3    | 1.9   | 0.56   | 0.12   | 0.08  | 0.05    | 0.02   | 2.7   | 100   | 0.24    | 76000   | 13      | 510     | 1.2     | 0.12    | 18000   | 0.18    |
| B18                                         | B18-03    | Till        | 546737             | 6971254  | 66     | 14      | 5.6     | 2.4   | 2.3   | 3.1    | 2.1   | 0.58   | 0.12   | 0.10  | 0.04    | 0.02   | 2.5   | 100   | 0.24    | 77000   | 11      | 560     | 1.2     | 0.16    | 16000   | 0.16    |
|                                             |           |             | MINIMUM            |          | 65     | 14      | 5.5     | 2.2   | 2.3   | 3.1    | 1.9   | 0.56   | 0.12   | 0.08  | 0.04    | 0.02   | 2.1   | 100   | 0.24    | 76000   | 11      | 510     | 1.2     | 0.12    | 16000   | 0.16    |
|                                             |           |             | MAXIMUM            |          | 67     | 16      | 6.2     | 2.8   | 2.6   | 3.3    | 2.1   | 0.62   | 0.13   | 0.10  | 0.05    | 0.02   | 2.7   | 101   | 0.27    | 83000   | 13      | 560     | 1.2     | 0.18    | 18000   | 0.20    |
|                                             |           |             | MEDIAN             |          | 66     | 14      | 5.6     | 2.4   | 2.4   | 3.3    | 2.1   | 0.58   | 0.12   | 0.09  | 0.05    | 0.02   | 2.5   | 100   | 0.24    | 77000   | 13      | 530     | 1.2     | 0.16    | 17000   | 0.18    |
|                                             |           |             | AVERAGE            |          | 66     | 15      | 5.8     | 2.5   | 2.4   | 3.3    | 2.0   | 0.59   | 0.12   | 0.09  | 0.05    | 0.02   | 2.5   | 100   | 0.25    | 78667   | 12      | 533     | 1.2     | 0.15    | 17000   | 0.18    |
|                                             |           |             | STANDARD DEVIATION |          | 0.87   | 0.81    | 0.39    | 0.31  | 0.15  | 0.13   | 0.15  | 0.03   | 0.01   | 0.01  | 0.01    | 0.00   | 0.30  | 0.55  | 0.02    | 3786    | 1.2     | 25      | 0.00    | 0.03    | 1000    | 0.02    |
|                                             |           |             | 75TH PERCENTILE    |          | 67     | 15      | 5.9     | 2.6   | 2.5   | 3.3    | 2.0   | 0.60   | 0.13   | 0.10  | 0.05    | 0.02   | 2.6   | 101   | 0.26    | 80000   | 13      | 545     | 1.2     | 0.17    | 17500   | 0.19    |
| B19                                         | B19-01    | Till        | 544428             | 6971271  | 70     | 14      | 4.3     | 1.4   | 3.1   | 3.5    | 1.8   | 0.41   | 0.13   | 0.07  | 0.05    | < 0.01 | 1.9   | 101   | 0.26    | 77000   | 12      | 480     | 1.2     | 0.84    | 23000   | 0.17    |
| B19                                         | B19-02    | Till        | 544364             | 6971277  | 75     | 11      | 2.8     | 1.0   | 1.9   | 3.1    | 1.9   | 0.27   | 0.09   | 0.06  | 0.07    | < 0.01 | 2.5   | 100   | 0.21    | 62000   | 2.5     | 540     | 1.2     | 0.27    | 14000   | 0.16    |
| B19                                         | B19-03    | Till        | 544348             | 6971248  | 77     | 11      | 3.0     | 1.1   | 2.2   | 2.9    | 1.6   | 0.29   | 0.10   | 0.06  | 0.05    | 0.02   | 1.7   | 101   | 0.20    | 58000   | 2.4     | 430     | 1.1     | 0.19    | 15000   | 0.15    |
|                                             |           |             | MINIMUM            |          | 70     | 11      | 2.8     | 1.0   | 1.9   | 2.9    | 1.6   | 0.27   | 0.09   | 0.06  | 0.05    | < 0.01 | 1.7   | 100   | 0.20    | 58000   | 2.4     | 430     | 1.1     | 0.19    | 14000   | 0.15    |
|                                             |           |             | MAXIMUM            |          | 77     | 14      | 4.3     | 1.4   | 3.1   | 3.5    | 1.9   | 0.41   | 0.13   | 0.07  | 0.07    | 0.02   | 2.5   | 101   | 0.26    | 77000   | 12      | 540     | 1.2     | 0.84    | 23000   | 0.17    |
|                                             |           |             | MEDIAN             |          | 75     | 11      | 3.0     | 1.1   | 2.2   | 3.1    | 1.8   | 0.29   | 0.10   | 0.06  | 0.05    | nc     | 1.9   | 101   | 0.21    | 62000   | 2.5     | 480     | 1.2     | 0.27    | 15000   | 0.16    |
|                                             |           |             | AVERAGE            |          | 74     | 12      | 3.4     | 1.2   | 2.4   | 3.2    | 1.8   | 0.32   | 0.11   | 0.06  | 0.06    | nc     | 2.0   | 101   | 0.22    | 65667   | 5.6     | 483     | 1.2     | 0.43    | 17333   | 0.16    |
|                                             |           |             | STANDARD DEVIATION |          | 3.6    | 1.8     | 0.81    | 0.21  | 0.60  | 0.32   | 0.11  | 0.08   | 0.02   | 0.01  | 0.01    | nc     | 0.42  | 0.36  | 0.03    | 10017   | 5.5     | 55      | 0.06    | 0.35    | 4933    | 0.01    |
|                                             |           |             | 75TH PERCENTILE    |          | 76     | 13      | 3.7     | 1.3   | 2.6   | 3.3    | 1.8   | 0.35   | 0.12   | 0.07  | 0.06    | nc     | 2.2   | 101   | 0.24    | 69500   | 7.3     | 510     | 1.2     | 0.56    | 19000   | 0.17    |
| Island 1                                    | 10QUAR01  | Till        | 542062             | 6989700  | 64     | 16      | 5.4     | 2.4   | 2.4   | 4.0    | 2.0   | 0.56   | 0.14   | 0.08  | 0.04    | < 0.01 | 2.9   | 100   | 0.56    | 82000   | 21      | 640     | 1.0     | 0.37    | 17000   | 0.26    |
| Island 1                                    | 10QUAR02  | Till        | 542025             | 6989670  | 66     | 15      | 5.3     | 2.2   | 2.7   | 3.9    | 1.9   | 0.55   | 0.13   | 0.07  | 0.02    | 0.01   | 1.7   | 100   | 0.46    | 81000   | 8.3     | 610     | 1.0     | 0.21    | 19000   | 0.24    |
| Island 1                                    | 10QUAR03  | Till        | 542059             | 6989643  | 63     | 13      | 4.3     | 2.0   | 6.3   | 3.2    | 2.0   | 0.49   | 0.17   | 0.06  | 0.02    | 0.02   | 4.8   | 100   | 0.50    | 68000   | 5.7     | 620     | 1.0     | 0.18    | 42000   | 0.29    |
| Island 1                                    | 10QUAR04  | Till        | 542122             | 6989684  | 66     | 16      | 5.2     | 2.1   | 2.5   | 4.1    | 1.9   | 0.53   | 0.14   | 0.06  | 0.03    | 0.02   | 1.6   | 100   | 0.38    | 82000   | 6.5     | 630     | 1.1     | 0.16    | 18000   | 0.22    |
| Island 1                                    | 10QUAR05  | Till        | 542086             | 6989743  | 65     | 16      | 5.4     | 2.3   | 3.0   | 4.0    | 1.9   | 0.55   | 0.16   | 0.06  | 0.02    | 0.02   | 1.6   | 100   | 0.36    | 81000   | 7.3     | 630     | 1.0     | 0.19    | 21000   | 0.22    |
| Island 1                                    | 10QUAR06  | Till        | 542170             | 6989657  | 66     | 15      | 4.8     | 2.1   | 2.7   | 4.1    | 2.0   | 0.52   | 0.15   | 0.07  | 0.03    | 0.02   | 1.9   | 100   | 0.45    | 80000   | 4.5     | 650     | 1.1     | 0.27    | 19000   | 0.26    |
| Island 1                                    | 10QUAR07  | Till        | 542206             | 6989628  | 65     | 16      | 5.3     | 2.3   | 3.1   | 4.0    | 2.0   | 0.53   | 0.16   | 0.08  | 0.04    | 0.01   | 1.9   | 100   | 0.48    | 81000   | 6.0     | 640     | 1.1     | 0.13    | 22000   | 0.28    |
| Island 1                                    | 10QUAR08  | Till        | 542300             | 6989607  | 68     | 14      | 4.4     | 1.8   | 2.4   | 3.8    | 1.9   | 0.46   | 0.16   | 0.06  | 0.02    | 0.01   | 2.3   | 99    | 0.43    | 76000   | 5.2     | 620     | 1.1     | 0.16    | 17000   | 0.25    |
| Island 1                                    | 10QUAR09  | Till        | 542242             | 6989592  | 65     | 15      | 4.5     | 1.9   | 2.3   | 4.1    | 1.9   | 0.51   | 0.15   | 0.07  | 0.02    | 0.02   | 3.6   | 99    | 0.46    | 77000   | 3.3     | 660     | 1.1     | 0.28    | 16000   | 0.27    |
|                                             |           |             | MINIMUM            |          | 63     | 13      | 4.3     | 1.8   | 2.3   | 3.2    | 1.9   | 0.46   | 0.13   | 0.06  | 0.02    | 0.01   | 1.6   | 99    | 0.36    | 68000   | 3.3     | 610     | 1.0     | 0.13    | 16000   | 0.22    |
|                                             |           |             | MAXIMUM            |          | 68     | 16      | 5.4     | 2.4   | 6.3   | 4.1    | 2.0   | 0.56   | 0.17   | 0.08  | 0.04    | 0.02   | 4.8   | 100   | 0.56    | 82000   | 21      | 660     | 1.1     | 0.37    | 42000   | 0.29    |
|                                             |           |             | MEDIAN             |          | 65     | 15      | 5.2     | 2.1   | 2.7   | 4.0    | 1.9   | 0.53   | 0.15   | 0.07  | 0.02    | 0.02   | 1.9   | 100   | 0.46    | 81000   | 6.0     | 630     | 1.1     | 0.19    | 19000   | 0.26    |
|                                             |           |             | AVERAGE            |          | 65     | 15      | 4.9     | 2.1   | 3.0   | 3.9    | 2.0   | 0.52   | 0.15   | 0.07  | 0.03    | 0.02   | 2.5   | 100   | 0.45    | 78667   | 7.5     | 633     | 1.1     | 0.22    | 21222   | 0.25    |
|                                             |           |             | STANDARD DEVIATION |          | 1.3    | 0.94    | 0.44    | 0.20  | 1.2   | 0.29   | 0.05  | 0.03   | 0.01   | 0.01  | 0.01    | 0.01   | 1.1   | 0.22  | 0.06    | 4528    | 5.3     | 16      | 0.05    | 0.08    | 8028    | 0.02    |
|                                             |           |             | 75TH PERCENTILE    |          | 66     | 16      | 5.3     | 2.3   | 3.0   | 4.1    | 2.0   | 0.55   | 0.16   | 0.07  | 0.03    | 0.02   | 2.9   | 100   | 0.48    | 81000   | 7.3     | 640     | 1.1     | 0.27    | 21000   | 0.27    |
| Island 2                                    | 10QUAR10  | Till        | 543077             | 6989298  | 65     | 16      | 4.5     | 1.9   | 2.1   | 4.2    | 1.9   | 0.48   | 0.14   | 0.06  | 0.03    | 0.01   | 3.7   | 99    | 0.48    | 82000   | 5.7     | 680     | 1.1     | 0.16    | 15000   | 0.27    |
| Island 2                                    | 10QUAR11  | Till        | 543019             | 6989383  | 66     | 15      | 4.8     | 2.0   | 2.4   | 4.0    | 2.0   | 0.49   | 0.14   | 0.06  | 0.03    | 0.02   | 2.2   | 99    | 0.36    | 81000   | 3.3     | 670     | 1.1     | 0.10    | 17000   | 0.24    |
| Island 2                                    | 10QUAR12  | Till        | 542969             | 6989345  | 64     | 15      | 5.5     | 2.4   | 2.5   | 3.8    | 2.0   | 0.58   | 0.19   | 0.15  | 0.03    | 0.02   | 3.3   | 100   | 0.43    | 82000   | 5.5     | 670     | 1.1     | 0.37    | 17000   | 0.32    |
| Island 2                                    | 10QUAR13  | Till        | 542950             | 6989320  | 66     | 16      | 4.5     | 1.9   | 2.2   | 4.3    | 2.0   | 0.49   | 0.14   | 0.05  | 0.04    | 0.02   | 2.1   | 100   | 0.40    | 81000   | 2.3     | 710     | 1.2     | 0.12    | 15000   | 0.26    |
| Island 2                                    | 10QUAR14  | Till        | 542920             | 6989363  | 66     | 16      | 4.8     | 2.1   | 2.5   | 4.2    | 2.1   | 0.50   | 0.17   | 0.07  | 0.03    | 0.02   | 1.8   | 100   | 0.36    | 82000   | 5.8     | 670     | 1.2     | 0.11    | 17000   | 0.24    |
| Island 2                                    | 10QUAR15  | Till        | 542878             | 6989372  | 65     | 15      | 5.1     | 2.2   | 3.2   | 3.9    | 1.9   | 0.52   | 0.17   | 0.07  | 0.02    | 0.02   | 2.1   | 99    | 0.40    | 82000   | 8.3     | 660     | 1.1     | 0.12    | 23000   | 0.31    |
|                                             |           |             | MINIMUM            |          | 64     | 15      | 4.5     | 1.9   | 2.1   | 3.8    | 1.9   | 0.48   | 0.14   | 0.05  | 0.02    | 0.01   | 1.8   | 99    | 0.36    | 81000   | 2.3     | 660     | 1.1     | 0.10    | 15000   | 0.24    |
|                                             |           |             | MAXIMUM            |          | 66     | 16      | 5.5     | 2.4   | 3.2   | 4.3    | 2.1   | 0.58   | 0.19   | 0.15  | 0.04    | 0.02   | 3.7   | 100   | 0.48    | 82000   | 8.3     | 710     | 1.2     | 0.37    | 23000   | 0.32    |
|                                             |           |             | MEDIAN             |          | 65     | 16      | 4.8     | 2.1   | 2.4   | 4.1    | 2.0   | 0.50   | 0.16   | 0.07  | 0.03    | 0.02   | 2.2   | 100   | 0.40    | 82000   | 5.6     | 670     | 1.1     | 0.12    | 17000   | 0.27    |
|                                             |           |             | AVERAGE            |          | 65     | 16      | 4.9     | 2.1   | 2.5   | 4.1    | 2.0   | 0.51   | 0.16   | 0.08  | 0.03    | 0.02   | 2.5   | 99    | 0.41    | 81667   | 5.2     | 677     | 1.1     |         |         |         |

Appendix A.1  
Chemical Composition - Esker (Till) Material for Road Construction  
Meliadine Project, Nunavut  
Agnico-Eagle Mines Ltd

| CCME Industrial Soil Guideline <sup>1</sup> |           |             |         |          | 87         |            | 91         |            |           |            |            |            |            |            | 50         |           | 600        |            | 2.9        |            |            |            |            |           | 1.0       |           | 300        |  | 130 |  |  |  | 360 |  |
|---------------------------------------------|-----------|-------------|---------|----------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|------------|-----------|-----------|-----------|------------|--|-----|--|--|--|-----|--|
| PROPOSED LOCATION                           | SAMPLE ID | SAMPLE TYPE | EASTING | NORTHING | Co<br>µg/g | Cr<br>µg/g | Cu<br>µg/g | Fe<br>µg/g | K<br>µg/g | Li<br>µg/g | Mg<br>µg/g | Mn<br>µg/g | Mo<br>µg/g | Na<br>µg/g | Ni<br>µg/g | P<br>µg/g | Pb<br>µg/g | Sb<br>µg/g | Se<br>µg/g | Sn<br>µg/g | Sr<br>µg/g | Ti<br>µg/g | Ti<br>µg/g | U<br>µg/g | V<br>µg/g | Y<br>µg/g | Zn<br>µg/g |  |     |  |  |  |     |  |
| B15                                         | B15-01    | Till        | 546192  | 6972523  | 12         | 250        | 14         | 34000      | 23000     | 21         | 11000      | 410        | 5.4        | 22000      | 27         | 540       | 13         | <0.8       | <0.7       | 1.4        | 270        | 2900       | 0.49       | 1.7       | 54        | 11.0      | 64         |  |     |  |  |  |     |  |
| B15                                         | B15-02    | Till        | 546107  | 6972573  | 8.7        | 270        | 14         | 23000      | 19000     | 10         | 6100       | 280        | 1.2        | 20000      | 19         | 400       | 12         | <0.8       | <0.7       | 0.70       | 260        | 1900       | 0.40       | 1.2       | 36        | 9.0       | 43         |  |     |  |  |  |     |  |
| B15                                         | B15-03    | Till        | 546250  | 6972511  | 11         | 220        | 16         | 30000      | 25000     | 19         | 10000      | 360        | 5.5        | 25000      | 25         | 470       | 15         | <0.8       | <0.7       | 1.0        | 310        | 2500       | 0.53       | 1.6       | 46        | 8.5       | 65         |  |     |  |  |  |     |  |
| MINIMUM                                     |           |             |         |          | 8.7        | 270        | 14         | 23000      | 19000     | 10         | 6100       | 280        | 1.2        | 20000      | 19         | 400       | 12         | <0.8       | <0.7       | 0.70       | 260        | 1900       | 0.40       | 1.2       | 36        | 8.5       | 43         |  |     |  |  |  |     |  |
| MAXIMUM                                     |           |             |         |          | 12         | 220        | 16         | 34000      | 25000     | 21         | 11000      | 410        | 5.5        | 25000      | 27         | 540       | 15         | <0.8       | <0.7       | 1.4        | 310        | 2900       | 0.53       | 1.7       | 54        | 11.0      | 65         |  |     |  |  |  |     |  |
| MEDIAN                                      |           |             |         |          | 11         | 250        | 14         | 30000      | 23000     | 19         | 10000      | 360        | 5.4        | 22000      | 25         | 470       | 13         | nc         | nc         | 1.0        | 270        | 2500       | 0.49       | 1.6       | 46        | 9.0       | 64         |  |     |  |  |  |     |  |
| AVERAGE                                     |           |             |         |          | 11         | 247        | 15         | 29000      | 22333     | 17         | 9033       | 350        | 4.0        | 22333      | 24         | 470       | 13         | nc         | nc         | 1.0        | 280        | 2433       | 0.47       | 1.5       | 45        | 9.5       | 57         |  |     |  |  |  |     |  |
| STANDARD DEVIATION                          |           |             |         |          | 1.7        | 25         | 1.2        | 5568       | 3055      | 5.9        | 2589       | 66         | 2.5        | 2517       | 4.2        | 70        | 1.5        | nc         | nc         | 0.35       | 26         | 503        | 0.07       | 0.26      | 9.0       | 1.3       | 12         |  |     |  |  |  |     |  |
| 75TH PERCENTILE                             |           |             |         |          | 12         | 260        | 15         | 32000      | 24000     | 20         | 10500      | 385        | 5.5        | 2517       | 26         | 505       | 14         | nc         | nc         | 1.2        | 290        | 2700       | 0.51       | 1.7       | 50        | 10.0      | 65         |  |     |  |  |  |     |  |
| B18                                         | B18-01    | Till        | 546920  | 6971177  | 18         | 220        | 28         | 44000      | 22000     | 27         | 17000      | 450        | 1.2        | 23000      | 50         | 570       | 12         | <0.8       | <0.7       | 1.0        | 260        | 3900       | 0.44       | 1.5       | 81        | 12.0      | 81         |  |     |  |  |  |     |  |
| B18                                         | B18-02    | Till        | 546820  | 6971241  | 15         | 270        | 28         | 38000      | 19000     | 23         | 13000      | 410        | 5.3        | 23000      | 47         | 510       | 11         | <0.8       | <0.7       | 0.90       | 300        | 3300       | 0.41       | 1.3       | 63        | 10.0      | 70         |  |     |  |  |  |     |  |
| B18                                         | B18-03    | Till        | 546737  | 6971254  | 14         | 230        | 17         | 40000      | 22000     | 23         | 15000      | 410        | 2.1        | 22000      | 36         | 550       | 12         | <0.8       | <0.7       | 2.3        | 260        | 3500       | 0.51       | 1.4       | 77        | 10.0      | 72         |  |     |  |  |  |     |  |
| MINIMUM                                     |           |             |         |          | 14         | 220        | 17         | 38000      | 19000     | 23         | 13000      | 410        | 1.2        | 22000      | 36         | 510       | 11         | <0.8       | <0.7       | 0.90       | 260        | 3300       | 0.41       | 1.3       | 63        | 10.0      | 70         |  |     |  |  |  |     |  |
| MAXIMUM                                     |           |             |         |          | 18         | 270        | 28         | 44000      | 22000     | 27         | 17000      | 450        | 5.3        | 23000      | 50         | 570       | 12         | <0.8       | <0.7       | 2.3        | 300        | 3900       | 0.51       | 1.5       | 81        | 12.0      | 81         |  |     |  |  |  |     |  |
| MEDIAN                                      |           |             |         |          | 15         | 230        | 28         | 40000      | 22000     | 23         | 15000      | 410        | 2.1        | 23000      | 47         | 550       | 12         | nc         | nc         | 1.0        | 260        | 3500       | 0.44       | 1.4       | 77        | 10.0      | 72         |  |     |  |  |  |     |  |
| AVERAGE                                     |           |             |         |          | 16         | 240        | 24         | 40667      | 21000     | 24         | 15000      | 423        | 2.9        | 22667      | 44         | 543       | 12         | nc         | nc         | 1.4        | 273        | 3567       | 0.45       | 1.4       | 74        | 10.7      | 74         |  |     |  |  |  |     |  |
| STANDARD DEVIATION                          |           |             |         |          | 2.1        | 26         | 6.4        | 3055       | 1732      | 2.3        | 2000       | 23         | 2.2        | 577        | 7.4        | 31        | 0.6        | nc         | nc         | 0.78       | 23         | 306        | 0.05       | 0.10      | 9.5       | 1.2       | 5.9        |  |     |  |  |  |     |  |
| 75TH PERCENTILE                             |           |             |         |          | 17         | 250        | 28         | 42000      | 22000     | 25         | 16000      | 430        | 3.7        | 23000      | 49         | 560       | 12         | nc         | nc         | 1.7        | 280        | 3700       | 0.48       | 1.5       | 79        | 11.0      | 77         |  |     |  |  |  |     |  |
| B19                                         | B19-01    | Till        | 544428  | 6971271  | 9.1        | 350        | 18         | 31000      | 19000     | 17         | 9000       | 360        | 1.8        | 25000      | 23         | 550       | 13         | <0.8       | <0.7       | 1.6        | 330        | 2600       | 0.37       | 1.5       | 45        | 10.0      | 55         |  |     |  |  |  |     |  |
| B19                                         | B19-02    | Till        | 544364  | 6971277  | 6.7        | 360        | 8.8        | 22000      | 20000     | 12         | 6300       | 240        | 7.8        | 22000      | 19         | 390       | 13         | <0.8       | <0.7       | 2.2        | 280        | 1700       | 0.42       | 1.2       | 28        | 7.9       | 45         |  |     |  |  |  |     |  |
| B19                                         | B19-03    | Till        | 544348  | 6971248  | 6.2        | 320        | 10         | 22000      | 17000     | 12         | 6200       | 240        | 7.1        | 20000      | 18         | 440       | 12         | <0.8       | <0.7       | <0.5       | 260        | 1800       | 0.37       | 1.1       | 31        | 8.0       | 39         |  |     |  |  |  |     |  |
| MINIMUM                                     |           |             |         |          | 6.2        | 320        | 9          | 22000      | 17000     | 12         | 6200       | 240        | 1.8        | 20000      | 18         | 390       | 12         | <0.8       | <0.7       | <0.5       | 260        | 1700       | 0.37       | 1.1       | 28        | 7.9       | 39         |  |     |  |  |  |     |  |
| MAXIMUM                                     |           |             |         |          | 9.1        | 360        | 18         | 31000      | 20000     | 17         | 9000       | 360        | 7.8        | 25000      | 23         | 550       | 13         | <0.8       | <0.7       | 2.2        | 330        | 2600       | 0.42       | 1.5       | 45        | 10.0      | 55         |  |     |  |  |  |     |  |
| MEDIAN                                      |           |             |         |          | 6.7        | 350        | 10         | 22000      | 19000     | 12         | 6300       | 240        | 7.1        | 22000      | 19         | 440       | 13         | nc         | nc         | nc         | 280        | 1800       | 0.37       | 1.2       | 31        | 8.0       | 45         |  |     |  |  |  |     |  |
| AVERAGE                                     |           |             |         |          | 7.3        | 343        | 12         | 25000      | 18667     | 14         | 7167       | 280        | 5.6        | 22333      | 20         | 460       | 13         | nc         | nc         | nc         | 290        | 2033       | 0.39       | 1.3       | 35        | 8.6       | 46         |  |     |  |  |  |     |  |
| STANDARD DEVIATION                          |           |             |         |          | 1.6        | 21         | 5.0        | 5196       | 1528      | 2.9        | 1589       | 69         | 3.3        | 2517       | 2.6        | 82        | 0.6        | nc         | nc         | nc         | 36         | 493        | 0.03       | 0.21      | 9.1       | 1.2       | 8.1        |  |     |  |  |  |     |  |
| 75TH PERCENTILE                             |           |             |         |          | 7.9        | 355        | 14         | 26500      | 19500     | 15         | 7650       | 300        | 7.5        | 23500      | 21         | 495       | 13         | nc         | nc         | nc         | 305        | 2200       | 0.40       | 1.4       | 38        | 9.0       | 50         |  |     |  |  |  |     |  |
| Island 1                                    | 10QUAR01  | Till        | 542062  | 6989700  | 13         | 200        | 22         | 38000      | 17000     | 21         | 13000      | 390        | 0.7        | 25000      | 31         | 580       | 20         | <0.8       | <0.7       | 1.2        | 410        | 3200       | 0.31       | 1.3       | 72        | 9.8       | 64         |  |     |  |  |  |     |  |
| Island 1                                    | 10QUAR02  | Till        | 542025  | 6989670  | 12         | 160        | 18         | 37000      | 17000     | 18         | 13000      | 400        | 1.0        | 25000      | 27         | 560       | 15         | <0.8       | <0.7       | 1          | 410        | 3200       | 0.33       | 1.4       | 75        | 10.0      | 60         |  |     |  |  |  |     |  |
| Island 1                                    | 10QUAR03  | Till        | 542059  | 6989643  | 10         | 150        | 20         | 30000      | 17000     | 16         | 12000      | 350        | 0.5        | 20000      | 27         | 710       | 16         | <0.8       | 1.2        | 1.3        | 480        | 2800       | 0.35       | 1.5       | 59        | 11.0      | 53         |  |     |  |  |  |     |  |
| Island 1                                    | 10QUAR04  | Till        | 542122  | 6989684  | 15         | 190        | 24         | 37000      | 17000     | 19         | 12000      | 410        | 1.1        | 26000      | 28         | 580       | 13         | <0.8       | <0.7       | 1.1        | 410        | 3100       | 0.33       | 1.4       | 75        | 10.0      | 59         |  |     |  |  |  |     |  |
| Island 1                                    | 10QUAR05  | Till        | 542086  | 6989743  | 14         | 160        | 33         | 38000      | 17000     | 20         | 14000      | 410        | 1.1        | 25000      | 28         | 670       | 13         | <0.8       | <0.7       | 0.9        | 410        | 3300       | 0.30       | 1.5       | 78        | 10.0      | 63         |  |     |  |  |  |     |  |
| Island 1                                    | 10QUAR06  | Till        | 542170  | 6989657  | 11         | 190        | 18         | 34000      | 17000     | 19         | 12000      | 390        | 0.5        | 25000      | 25         | 650       | 11         | <0.8       | 0.8        | 1.4        | 440        | 3000       | 0.28       | 1.3       | 69        | 9.4       | 62         |  |     |  |  |  |     |  |
| Island 1                                    | 10QUAR07  | Till        | 542206  | 6989628  | 17         | 230        | 27         | 37000      | 17000     | 20         | 13000      | 480        | 0.7        | 26000      | 31         | 630       | 12         | <0.8       | 1.4        | 1          | 420        | 3300       | 0.31       | 1.4       | 72        | 10.0      | 64         |  |     |  |  |  |     |  |
| Island 1                                    | 10QUAR08  | Till        | 542300  | 6989607  | 12         | 160        | 23         | 32000      | 16000     | 19         | 11000      | 370        | 1.0        | 24000      | 26         | 630       | 15         | <0.8       | <0.7       | 0.9        | 410        | 2700       | 0.28       | 1.3       | 64        | 8.9       | 56         |  |     |  |  |  |     |  |
| Island 1                                    | 10QUAR09  | Till        | 542242  | 6989592  | 11         | 210        | 15         | 32000      | 16000     | 19         | 11000      | 360        | 0.8        | 25000      | 23         | 630       | 14         | <0.8       | <0.7       | 0.9        | 420        | 2900       | 0.33       | 1.4       | 60        | 9.4       | 58         |  |     |  |  |  |     |  |
| MINIMUM                                     |           |             |         |          | 10         | 150        | 15         | 30000      | 16000     | 16         | 11000      | 350        | 0.5        | 20000      | 23         | 560       | 11         | <0.8       | <0.7       | 0.9        | 410        | 2700       | 0.28       | 1.3       | 59        | 8.9       | 53         |  |     |  |  |  |     |  |
| MAXIMUM                                     |           |             |         |          | 17         | 230        | 33         | 38000      | 17000     | 21         | 14000      | 480        | 1.1        | 26000      | 31         | 710       | 20         | <0.8       | 1.4        | 1.4        | 480        | 3300       | 0.35       | 1.5       | 78        | 11        | 64         |  |     |  |  |  |     |  |
| MEDIAN                                      |           |             |         |          | 12         | 190        | 22         | 37000      | 17000     | 19         | 12000      | 390        | 0.8        | 25000      | 27         | 630       | 14         | nc         | 0.7        | 1.0        | 410        | 3100       | 0.31       | 1.4       | 72        | 10        | 60         |  |     |  |  |  |     |  |
| AVERAGE                                     |           |             |         |          | 13         | 183        | 22         | 35000      | 16778     | 19         | 12333      | 396        | 0.8        | 24556      | 27         | 627       | 14         | nc         | 0.8        | 1.1        | 423        | 3056       | 0.31       | 1.4       | 69        | 10        | 60         |  |     |  |  |  |     |  |
| STANDARD DEVIATION                          |           |             |         |          | 2.2        | 27         | 5.4        | 3041       | 441       | 1.4        | 1000       | 38         | 0.24       | 1810       | 2.6        | 48        | 2.6        | nc         | 0.27       | 0.19       | 23         | 219        | 0.02       | 0.08      | 6.9       | 0.58      | 3.8        |  |     |  |  |  |     |  |
| 75TH PERCENTILE                             |           |             |         |          | 14         | 200        | 24         | 37000      | 17000     | 20         | 13000      | 410        | 1.0        | 25000      | 28         | 650       | 15         | nc         | 0.8        | 1.2        | 420        | 3200       | 0.33       | 1.4       | 75        | 10        | 63         |  |     |  |  |  |     |  |
| Island 2                                    | 10QUAR10  | Till        | 543077  | 6989298  | 11         | 190        | 15         | 33000      | 17000     | 19         | 11000      | 330        | 1.4        | 27000      | 22         | 600       | 13         | <0.8       | 1.6        | 0.9        | 440        | 2800       | 0.28       | 1.4       | 62        | 7.9       | 59         |  |     |  |  |  |     |  |
| Island 2                                    | 10QUAR11  | Till        | 543019  | 6989383  | 11         | 220        | 19         | 34000      | 17000     | 19         | 12000      | 360        | 0.6        | 26000      | 26         | 600       | 12         | <0.8       | <0.7       | 0.9        | 430        | 2800       | 0.30       | 1.4       | 61        | 8.9       | 62         |  |     |  |  |  |     |  |
| Island 2                                    | 10QUAR12  | Till        | 542969  | 6989345  | 40         | 220        | 25         | 39000      | 17000     | 22         | 14000      | 840        | 2.0        | 24000      | 44         | 810       | 13         | <0.8       | <0.7       | 0.9        | 410        | 3300       | 0.38       | 1.4       | 76        | 9.6       | 71         |  |     |  |  |  |     |  |
| Island 2                                    | 10QUAR13  | Till        | 542950  | 6989320  | 8.2        | 230        | 11         | 31000      | 17000     | 21         | 11000      | 310        | 0.7        | 26000      | 23         | 620       | 13         | <0.8       | <0.7       | 0.7        | 460        | 2600       | 0.30       | 1.4       | 61        | 7.8       | 60         |  |     |  |  |  |     |  |
| Island 2                                    | 10QUAR14  | Till        | 542920  | 6989363  | 11         | 180        | 16         | 34000      | 18000     | 21         | 12000      | 370        | 1.3        | 26000      | 25         | 700       | 13         | <0.8       | <0.7       | 1.0        | 440        | 2800       | 0.33       | 1.4       | 67        | 8.9       | 63         |  |     |  |  |  |     |  |
| Island 2                                    | 10QUAR15  | Till        | 542878  | 6989372  | 13         | 210        | 32         | 37000      | 17000     | 21         | 13000      | 400        | 0.7        | 25000      | 26         | 730       | 15         | <0.8       | <0.7       | 1.3        | 450        | 3100       | 0.31       | 1.6       | 70        | 12.0      | 63         |  |     |  |  |  |     |  |
| MINIMUM                                     |           |             |         |          | 8.2        | 180        | 11         | 31000      | 17000     | 19         | 11000      | 310        | 0.6        | 24000      | 22         | 600       | 12         | <0.8       | <0.7       | 0.7        | 410        | 2600       | 0.28       | 1.4       | 61        | 7.8       | 59         |  |     |  |  |  |     |  |
| MAXIMUM                                     |           |             |         |          | 40         | 230        | 32         | 39000      | 18000     | 22         | 14000      | 840        | 2.0        | 27000      | 44         | 810       | 15         | nc         | 1.6        | 1.3        | 460        | 3300       | 0.38       | 1.6       | 76        | 12        | 71         |  |     |  |  |  |     |  |
| MEDIAN                                      |           |             |         |          | 11         | 215        | 18         | 34000      | 17000     | 21         | 12000      | 360        | 0.6        | 26000      | 26         | 600       | 12         | nc         | 0.9        | 1.0        | 440        | 2800       | 0.31       | 1.4       | 69        | 8.9       | 63         |  |     |  |  |  |     |  |
| AVERAGE                                     |           |             |         |          | 16         | 208        | 20         | 34667      | 17167     | 21         | 12167      | 335        | 1.1        | 25667      | 28         | 677       | 13         | nc         | nc         | 1.0        | 450        | 2900       | 0.32       | 1.4       | 66        | 9.2       | 63         |  |     |  |  |  |     |  |
| STANDARD DEVIATION                          |           |             |         |          | 12         | 19         | 7.6        | 2875       | 408       | 1.2        | 1169       | 201        | 0.55       | 1033       | 8.2        | 8.5       | 1.0        | nc         | nc         | 0.20       | 17         | 253        | 0.04       | 0.08      | 6.0       |           |            |  |     |  |  |  |     |  |



## **A.2 Acid Base Accounting Tables and Figures**

Appendix A.2  
Acid-Base Accounting Results - Rock Quarry Material for Road Construction  
Meliadine Project, Nunavut  
Agnico-Eagle Mines Ltd

| PROPOSED LOCATION | SAMPLE ID | SAMPLE TYPE       | EASTING            | NORTHING | PASTE pH | TC   | CO3     | CaNP | S(T)    | S(SO <sub>4</sub> ) | S(S <sup>2-</sup> ) | AP   | NP   | Net NP | CaNPR | NPR |
|-------------------|-----------|-------------------|--------------------|----------|----------|------|---------|------|---------|---------------------|---------------------|------|------|--------|-------|-----|
|                   |           |                   |                    |          |          | %    | %       |      | %       | %                   | %                   |      |      |        |       |     |
| Itivia            | Itivia-01 | crushed aggregate | 0                  | 0        | 9.2      | 0.26 | 1.1     | 18   | 0.08    | 0.02                | 0.07                | 0.62 | 29   | 29     | 29    | 47  |
| Itivia            | Itivia-02 | crushed aggregate | 0                  | 0        | 8.6      | 0.24 | 0.72    | 12   | 0.07    | 0.02                | 0.05                | 0.62 | 25   | 24     | 19    | 40  |
| Itivia            | Itivia-03 | crushed aggregate | 0                  | 0        | 9.1      | 0.41 | 1.8     | 30   | 0.06    | 0.02                | 0.04                | 0.62 | 40   | 39     | 48    | 64  |
| Itivia            | Itivia-04 | crushed aggregate | 0                  | 0        | 9.1      | 0.30 | 1.3     | 21   | 0.07    | 0.01                | 0.05                | 0.31 | 31   | 31     | 69    | 101 |
|                   |           |                   | MINIMUM            |          | 8.6      | 0.24 | 0.72    | 12   | 0.06    | 0.01                | 0.04                | 0.31 | 25   | 24     | 19    | 40  |
|                   |           |                   | MAXIMUM            |          | 9.2      | 0.41 | 1.8     | 30   | 0.08    | 0.02                | 0.07                | 0.62 | 40   | 39     | 69    | 101 |
|                   |           |                   | MEDIAN             |          | 9.1      | 0.28 | 1.2     | 20   | 0.07    | 0.02                | 0.05                | 0.62 | 30   | 30     | 39    | 56  |
|                   |           |                   | AVERAGE            |          | 8.9      | 0.30 | 1.2     | 20   | 0.07    | 0.02                | 0.05                | 0.54 | 31   | 31     | 41    | 63  |
|                   |           |                   | STANDARD DEVIATION |          | nc       | 0.08 | 0.45    | 7.5  | 0.01    | 0.01                | 0.01                | 0.16 | 6.1  | 6.1    | 22    | 27  |
|                   |           |                   | 75TH PERCENTILE    |          | nc       | 0.33 | 1.4     | 24   | 0.07    | 0.02                | 0.06                | 0.62 | 33   | 33     | 54    | 73  |
| R01               | R1-01     | meta-sedimentary  | 539573             | 6989375  | 9.5      | 0.82 | 3.5     | 58   | 0.07    | 0.02                | 0.05                | 0.62 | 64   | 64     | 93    | 104 |
| R01               | R1-02     | meta-sedimentary  | 539592             | 6989350  | 9.5      | 0.85 | 2.6     | 44   | 0.12    | 0.04                | 0.07                | 1.3  | 51   | 50     | 35    | 41  |
| R01               | R1-03     | meta-sedimentary  | 539605             | 6989321  | 9.4      | 0.31 | 1.0     | 17   | 0.08    | 0.01                | 0.07                | 0.31 | 18   | 18     | 55    | 59  |
|                   |           |                   | MINIMUM            |          | 9.4      | 0.31 | 1.0     | 17   | 0.07    | 0.01                | 0.05                | 0.31 | 18   | 18     | 35    | 41  |
|                   |           |                   | MAXIMUM            |          | 9.5      | 0.85 | 3.5     | 58   | 0.12    | 0.04                | 0.07                | 1.3  | 51   | 50     | 93    | 104 |
|                   |           |                   | MEDIAN             |          | 9.5      | 0.82 | 2.6     | 44   | 0.08    | 0.02                | 0.07                | 0.62 | 51   | 50     | 55    | 59  |
|                   |           |                   | AVERAGE            |          | 9.5      | 0.66 | 2.4     | 39   | 0.09    | 0.02                | 0.06                | 0.73 | 45   | 44     | 61    | 68  |
|                   |           |                   | STANDARD DEVIATION |          | nc       | 0.31 | 1.2     | 21   | 0.02    | 0.02                | 0.01                | 0.48 | 24   | 23     | 30    | 32  |
|                   |           |                   | 75TH PERCENTILE    |          | nc       | 0.84 | 3.0     | 51   | 0.10    | 0.03                | 0.07                | 0.94 | 58   | 57     | 74    | 82  |
| R02               | R2-01     | mafic volcanic    | 543587             | 6983658  | 9.4      | 0.25 | 1.0     | 17   | 0.07    | 0.02                | 0.05                | 0.62 | 31   | 30     | 27    | 50  |
| R02               | R2-02     | mafic volcanic    | 543507             | 6983688  | 8.9      | 0.04 | 0.08    | 1.4  | 0.13    | 0.03                | 0.10                | 0.94 | 11   | 10     | 1.5   | 11  |
| R02               | R2-03     | mafic volcanic    | 543543             | 6983716  | 9.5      | 0.13 | 0.47    | 7.8  | 0.09    | 0.06                | 0.03                | 1.9  | 18   | 16     | 4.2   | 9.4 |
|                   |           |                   | MINIMUM            |          | 8.9      | 0.04 | 0.08    | 1.4  | 0.07    | 0.02                | 0.03                | 0.62 | 11   | 10     | 1.5   | 9.4 |
|                   |           |                   | MAXIMUM            |          | 9.5      | 0.25 | 1.0     | 17   | 0.13    | 0.06                | 0.10                | 1.9  | 31   | 30     | 27    | 50  |
|                   |           |                   | MEDIAN             |          | 9.4      | 0.13 | 0.47    | 7.8  | 0.09    | 0.03                | 0.05                | 0.94 | 18   | 16     | 4.2   | 11  |
|                   |           |                   | AVERAGE            |          | 9.2      | 0.14 | 0.52    | 8.7  | 0.10    | 0.04                | 0.06                | 1.1  | 20   | 19     | 11    | 24  |
|                   |           |                   | STANDARD DEVIATION |          | nc       | 0.11 | 0.47    | 7.8  | 0.03    | 0.02                | 0.04                | 0.65 | 10   | 11     | 14    | 23  |
|                   |           |                   | 75TH PERCENTILE    |          | nc       | 0.19 | 0.74    | 12   | 0.11    | 0.05                | 0.08                | 1.4  | 24   | 23     | 16    | 31  |
| R05               | R5-01     | granite           | 544805             | 6981409  | 9.3      | 0.10 | 0.05    | 0.9  | < 0.005 | < 0.01              | < 0.01              | 0.31 | 6.5  | 6.2    | 2.8   | 21  |
| R05               | R5-02     | granite           | 544828             | 6981425  | 9.9      | 0.11 | 0.17    | 2.9  | < 0.005 | < 0.01              | < 0.01              | 0.31 | 8.5  | 8.2    | 9.3   | 27  |
| R05               | R5-03     | granite           | 544853             | 6981412  | 9.7      | 0.14 | 0.09    | 1.6  | < 0.005 | < 0.01              | < 0.01              | 0.31 | 7.4  | 7.1    | 5.1   | 24  |
|                   |           |                   | MINIMUM            |          | 9.3      | 0.10 | 0.05    | 0.87 | < 0.005 | < 0.01              | < 0.01              | 0.31 | 6.5  | 6.2    | 2.8   | 21  |
|                   |           |                   | MAXIMUM            |          | 9.9      | 0.14 | 0.17    | 2.9  | < 0.005 | < 0.01              | < 0.01              | 0.31 | 8.5  | 8.2    | 9.3   | 27  |
|                   |           |                   | MEDIAN             |          | 9.7      | 0.11 | 0.09    | 1.6  | nc      | nc                  | nc                  | 0.31 | 7.4  | 7.1    | 5.1   | 24  |
|                   |           |                   | AVERAGE            |          | 9.5      | 0.12 | 0.11    | 1.8  | nc      | nc                  | nc                  | 0.31 | 7.5  | 7.2    | 5.7   | 24  |
|                   |           |                   | STANDARD DEVIATION |          | nc       | 0.02 | 0.06    | 1.0  | nc      | nc                  | nc                  | 0.00 | 1.0  | 1.0    | 3.3   | 3.2 |
|                   |           |                   | 75TH PERCENTILE    |          | nc       | 0.12 | 0.13    | 2.2  | nc      | nc                  | nc                  | 0.31 | 8.0  | 7.6    | 7.2   | 26  |
| R07               | R7-01     | mafic volcanic    | 546584             | 6979643  | 9.4      | 0.03 | 0.02    | 0.27 | 0.01    | < 0.01              | 0.01                | 0.31 | 7.9  | 7.6    | 0.9   | 26  |
| R07               | R7-02     | mafic volcanic    | 546610             | 6979610  | 8.8      | 0.05 | 0.06    | 1.0  | 0.09    | 0.03                | 0.06                | 0.94 | 11   | 10     | 1.1   | 11  |
| R07               | R7-03     | mafic volcanic    | 546587             | 6979631  | 9.4      | 0.03 | 0.02    | 0.32 | 0.02    | < 0.01              | 0.02                | 0.31 | 9.3  | 9.0    | 1.0   | 30  |
| R07               | R7-04     | mafic volcanic    | 546562             | 6979644  | 9.6      | 0.03 | 0.06    | 1.0  | 0.01    | < 0.01              | < 0.01              | 0.31 | 8.0  | 7.7    | 3.2   | 26  |
| R07               | R7-05     | mafic volcanic    | 546550             | 6979653  | 9.2      | 0.03 | 0.06    | 1.1  | 0.04    | 0.01                | 0.03                | 0.31 | 9.3  | 9.0    | 3.4   | 30  |
|                   |           |                   | MINIMUM            |          | 8.8      | 0.03 | 0.02    | 0.27 | 0.01    | < 0.01              | 0.01                | 0.31 | 7.9  | 7.6    | 0.9   | 11  |
|                   |           |                   | MAXIMUM            |          | 9.6      | 0.05 | 0.06    | 1.1  | 0.09    | 0.03                | 0.06                | 0.94 | 10.7 | 9.8    | 3.4   | 30  |
|                   |           |                   | MEDIAN             |          | 9.4      | 0.03 | 0.06    | 1.0  | 0.02    | nc                  | 0.02                | 0.31 | 9.3  | 9.0    | 1.1   | 26  |
|                   |           |                   | AVERAGE            |          | 9.2      | 0.04 | 0.04    | 0.73 | 0.04    | nc                  | 0.03                | 0.44 | 9.0  | 8.6    | 1.9   | 25  |
|                   |           |                   | STANDARD DEVIATION |          | nc       | 0.01 | 0.02    | 0.40 | 0.04    | nc                  | 0.02                | 0.28 | 1.1  | 0.9    | 1.3   | 7.7 |
|                   |           |                   | 75TH PERCENTILE    |          | nc       | 0.03 | 0.06    | 1.0  | 0.04    | nc                  | 0.03                | 0.31 | 9.3  | 9.0    | 3.2   | 30  |
| R09               | R9-01     | mafic volcanic    | 547866             | 6977635  | 8.7      | 0.07 | 0.03    | 0.45 | 0.04    | < 0.01              | 0.04                | 0.31 | 6.4  | 6.1    | 1.5   | 21  |
| R09               | R9-02     | mafic volcanic    | 547897             | 6977622  | 9.0      | 0.08 | 0.07    | 1.1  | 0.04    | < 0.01              | 0.04                | 0.31 | 10   | 10     | 3.6   | 33  |
| R09               | R9-03     | mafic volcanic    | 547935             | 6977644  | 8.9      | 0.04 | < 0.005 | 0.08 | 0.02    | < 0.01              | 0.02                | 0.31 | 6.9  | 6.6    | 0.3   | 22  |
|                   |           |                   | MINIMUM            |          | 8.7      | 0.04 | < 0.005 | 0.08 | 0.02    | < 0.01              | 0.02                | 0.31 | 6.4  | 6.1    | 0.3   | 21  |
|                   |           |                   | MAXIMUM            |          | 9.0      | 0.08 | 0.07    | 1.1  | 0.04    | 0.01                | 0.04                | 0.31 | 10   | 10     | 3.6   | 33  |
|                   |           |                   | MEDIAN             |          | 8.9      | 0.07 | 0.03    | 0.45 | 0.04    | nc                  | 0.04                | 0.31 | 6.9  | 6.6    | 1.5   | 22  |
|                   |           |                   | AVERAGE            |          | 8.9      | 0.06 | 0.03    | 0.55 | 0.03    | nc                  | 0.03                | 0.31 | 7.9  | 7.6    | 1.8   | 25  |
|                   |           |                   | STANDARD DEVIATION |          | nc       | 0.02 | 0.03    | 0.52 | 0.01    | nc                  | 0.01                | 0.00 | 2.1  | 2.1    | 1.7   | 6.8 |
|                   |           |                   | 75TH PERCENTILE    |          | nc       | 0.08 | 0.05    | 0.78 | 0.04    | nc                  | 0.04                | 0.31 | 8.6  | 8.3    | 2.5   | 28  |
| R11               | R11-01    | granite           | 547837             | 6975947  | 9.8      | 0.12 | 0.30    | 4.9  | 0.01    | < 0.01              | < 0.01              | 0.31 | 10   | 10     | 16    | 33  |
| R11               | R11-02    | granite           | 547954             | 6976003  | 9.8      | 0.25 | 0.93    | 16   | 0.01    | < 0.01              | < 0.01              | 0.31 | 21   | 21     | 50    | 69  |
| R11               | R11-03    | granite           | 547844             | 6976078  | 9.7      | 0.16 | 0.35    | 5.8  | < 0.005 | < 0.01              | < 0.01              | 0.31 | 12   | 12     | 19    | 39  |
| R11               | R11-04    | granite           | 547714             | 6975749  | 9.7      | 0.24 | 0.60    | 10   | 0.09    | 0.02                | 0.07                | 0.62 | 16   | 15     | 16    | 26  |
| R11               | R11-05    | granite           | 547627             | 6975680  | 9.9      | 0.07 | 0.05    | 0.83 | < 0.005 | < 0.01              | < 0.01              | 0.31 | 8.9  | 8.6    | 2.7   | 29  |
|                   |           |                   | MINIMUM            |          | 9.7      | 0.07 | 0.05    | 0.83 | < 0.005 | < 0.01              | < 0.01              | 0.31 | 8.9  | 8.6    | 2.7   | 26  |
|                   |           |                   | MAXIMUM            |          | 9.9      | 0.25 | 0.93    | 16   | 0.09    | 0.02                | 0.07                | 0.62 | 21   | 21     | 50    | 69  |
|                   |           |                   | MEDIAN             |          | 9.8      | 0.16 | 0.35    | 5.8  | 0.01    | nc                  | nc                  | 0.31 | 12   | 12     | 16    | 33  |
|                   |           |                   | AVERAGE            |          | 9.8      | 0.17 | 0.44    | 7.4  | 0.02    | nc                  | nc                  | 0.37 | 14   | 13     | 21    | 39  |
|                   |           |                   | STANDARD DEVIATION |          | nc       | 0.08 | 0.34    | 5.6  | 0.04    | nc                  | 0.06                | 0.14 | 5.0  | 5.0    | 18    | 37  |
|                   |           |                   | 75TH PERCENTILE    |          | nc       | 0.24 | 0.60    | 9.9  | 0.01    | nc                  | nc                  | 0.31 | 16   | 15     | 19    | 39  |
| R14               | R14-01    | mafic volcanic    | 547044             | 6974196  | 8.1      | 0.15 | 0.07    | 1.1  | 0.18    | 0.08                | 0.10                | 2.5  | 12   | 10     | 4.6   | 4.8 |
| R14               | R14-02    | mafic volcanic    | 547011             | 6974197  | 9.4      | 0.09 | 0.09    | 1.4  | 0.03    | < 0.01              | 0.02                | 0.31 | 11   | 11     | 10    | 0.4 |
| R14               | R14-03    | mafic volcanic    | 546989             | 6974173  | 7.4      | 0.10 | 0.03    | 0.55 | 0.34    | 0.17                | 0.17                | 5.3  | 4.3  | -1.0   | 0.1   | 0.8 |
| R14               | R14-04    | mafic volcanic    | 546930             | 6974216  | 9.6      | 0.16 | 0.59    | 10   | 0.05    | < 0.01              | 0.05                | 0.31 | 22   | 21     | 32    | 70  |
| R14               | R14-05    | mafic volcanic    | 546872             | 6974220  | 9.7      | 0.05 | 0.08    | 1.3  | < 0.005 | < 0.01              | < 0.01              | 0.31 | 10   | 10     | 4.1   | 34  |
|                   |           |                   | MINIMUM            |          | 7.4      | 0.05 | 0.03    | 0.55 | 0.01    | < 0.01              | 0.01                | 0.31 | 4.3  | -1.0   | 0.1   | 0.8 |
|                   |           |                   | MAXIMUM            |          | 9.7      | 0.16 | 0.59    | 10   | 0.34    | 0.17                | 0.17                | 5.3  | 22   | 21     | 32    | 70  |
|                   |           |                   | MEDIAN             |          | 9.4      | 0.10 | 0.08    | 1.3  | 0.05    | nc                  | 0.05                | 0.31 | 11   | 10     | 4.1   | 34  |
|                   |           |                   | AVERAGE            |          | 8.1      | 0.11 | 0.17    | 2.8  | 0.12    | nc                  | 0.07                | 1.7  | 12   | 10     | 8.2   | 29  |
|                   |           |                   | STANDARD DEVIATION |          | nc       | 0.05 | 0.23    | 3.9  | 0.14    | nc                  | 0.07                | 2.2  | 6.2  | 7.9    | 13    | 28  |
|                   |           |                   | 75TH PERCENTILE    |          | nc       | 0.15 | 0.09    | 1.4  | 0.18    | nc                  | 0.10                | 2.5  | 12   | 11     | 4.6   | 37  |
| R16               | R16-01    | gabbro            | 548413             | 6970737  | 9.1      | 0.33 | 1.3     | 21   | 0.09    | 0.03                | 0.06                | 0.94 | 35   | 35     | 23    | 38  |
| R16               | R16-02    | gabbro            | 548272             | 6970758  | 9.2      | 0.15 | 0.31    | 5.2  | 0.05    | 0.02                | 0.03                | 0.62 | 19   | 18     | 8.3   | 31  |
| R16               | R16-03    | gabbro            | 548147             | 6970767  | 9.1      | 0.30 | 0.92    | 15   | 0.10    | 0.03                | 0.07                | 0.94 | 29   | 28     | 16    | 31  |
| R16               | R16-04    | gabbro            | 547959             | 6970827  | 9.1      | 0.17 | 0.24    | 4.0  | 0.10    | 0.02                | 0.07                | 0.62 | 15   | 14     | 6.5   | 24  |
| R16               | R16-05    | gabbro            | 547736             | 6970852  | 9.1      | 0.07 | 0.14    | 2.3  | 0.01    | < 0.01              | 0.01                | 0.31 | 11   | 11     | 7.3   | 35  |
| R16               | R16-06    | gabbro            | 547495             | 6970904  | 9.3      | 0.41 | 1.8     | 29   | 0.06    | < 0.01              | 0.06                | 0.31 | 46   | 45     | 94    | 147 |
| R16               | R16-07    | gabbro            | 547282             | 6970908  | 9.4      | 0.04 | 0.12    | 2.1  | 0.03    | < 0.01              | 0.03                | 0.31 | 11   | 10     | 6.6   | 35  |
| R16               | R16-08    | gabbro            | 547034             | 6971068  | 9.4      | 0.06 | 0.08    | 1.4  | 0.10    | 0.03                | 0.06                | 0.94 | 16   | 15     | 1.5   | 17  |
| R16               | R16-09    | gabbro            | 5                  |          |          |      |         |      |         |                     |                     |      |      |        |       |     |

Appendix A.2  
Acid-Base Accounting Results - Rock Quarry Material for Road Construction  
Meliadine Project, Nunavut  
Agnico-Eagle Mines Ltd

| PROPOSED LOCATION | SAMPLE ID | SAMPLE TYPE    | EASTING | NORTHING | PASTE pH           | TC<br>% | CO3<br>% | CaNP | S(T)<br>% | S(SO <sub>4</sub> )<br>% | S(S <sup>2-</sup> )<br>% | AP   | NP   | Net NP | CaNPR | NPR |
|-------------------|-----------|----------------|---------|----------|--------------------|---------|----------|------|-----------|--------------------------|--------------------------|------|------|--------|-------|-----|
| R82               | R82-01    | mafic volcanic | 547421  | 6977137  | 8.6                | 0.07    | 0.01     | 0.12 | 0.04      | < 0.01                   | 0.04                     | 0.31 | 7.4  | 7.1    | 0.4   | 24  |
| R82               | R82-02    | mafic volcanic | 547435  | 6977144  | 9.2                | 0.09    | 0.01     | 0.17 | 0.02      | < 0.01                   | 0.02                     | 0.31 | 8.4  | 8.1    | 0.5   | 27  |
| R82               | R82-03    | mafic volcanic | 547451  | 6977153  | 9.4                | 0.03    | 0.01     | 0.12 | 0.03      | < 0.01                   | 0.03                     | 0.31 | 8.0  | 7.7    | 0.4   | 26  |
|                   |           |                |         |          | MINIMUM            | 8.6     | 0.03     | 0.01 | 0.12      | < 0.01                   | 0.02                     | 0.31 | 7.4  | 7.1    | 0.4   | 24  |
|                   |           |                |         |          | MAXIMUM            | 9.4     | 0.09     | 0.01 | 0.17      | 0.04                     | 0.01                     | 0.31 | 8.4  | 8.1    | 0.5   | 27  |
|                   |           |                |         |          | MEDIAN             | 9.2     | 0.07     | 0.01 | 0.12      | 0.03                     | nc                       | 0.31 | 8.0  | 7.7    | 0.4   | 26  |
|                   |           |                |         |          | AVERAGE            | 8.9     | 0.06     | 0.01 | 0.13      | 0.03                     | nc                       | 0.31 | 7.9  | 7.6    | 0.4   | 26  |
|                   |           |                |         |          | STANDARD DEVIATION | nc      | 0.03     | 0.00 | 0.03      | 0.01                     | nc                       | 0.00 | 0.50 | 0.50   | 0.1   | 1.6 |
|                   |           |                |         |          | 75TH PERCENTILE    | nc      | 0.08     | 0.01 | 0.14      | 0.03                     | nc                       | 0.04 | 8.2  | 7.9    | 0.5   | 26  |
| R280              | R280-01   | granite        | 544401  | 6981741  | 9.8                | 0.11    | 0.21     | 3.6  | 0.01      | < 0.01                   | < 0.01                   | 0.31 | 8.7  | 8.4    | 12    | 28  |
| R280              | R280-02   | granite        | 544425  | 6981744  | 9.7                | 0.12    | 0.09     | 1.5  | 0.01      | < 0.01                   | < 0.01                   | 0.31 | 6.8  | 6.5    | 4.7   | 22  |
| R280              | R280-03   | granite        | 544444  | 6981745  | 9.7                | 0.12    | 0.16     | 2.7  | < 0.005   | < 0.01                   | < 0.01                   | 0.31 | 8.8  | 8.5    | 8.6   | 28  |
|                   |           |                |         |          | MINIMUM            | 9.7     | 0.11     | 0.09 | 1.5       | 0.01                     | < 0.01                   | 0.31 | 6.8  | 6.5    | 4.7   | 22  |
|                   |           |                |         |          | MAXIMUM            | 9.8     | 0.12     | 0.21 | 3.6       | 0.01                     | 0.01                     | 0.31 | 8.8  | 8.5    | 12    | 28  |
|                   |           |                |         |          | MEDIAN             | 9.7     | 0.12     | 0.16 | 2.7       | 0.01                     | nc                       | 0.31 | 8.7  | 8.4    | 8.6   | 28  |
|                   |           |                |         |          | AVERAGE            | 9.7     | 0.12     | 0.15 | 2.6       | 0.01                     | nc                       | 0.31 | 8.1  | 7.8    | 8.3   | 26  |
|                   |           |                |         |          | STANDARD DEVIATION | nc      | 0.00     | 0.06 | 1.1       | 0.00                     | nc                       | 0.00 | 1.1  | 1.1    | 3.4   | 3.7 |
|                   |           |                |         |          | 75TH PERCENTILE    | nc      | 0.12     | 0.19 | 3.1       | 0.01                     | nc                       | 0.31 | 8.8  | 8.4    | 10    | 28  |
| R350              | R350-01   | mafic volcanic | 543690  | 6983082  | 9.5                | 0.05    | 0.01     | 0.10 | 0.01      | < 0.01                   | < 0.01                   | 0.31 | 12   | 12     | 0.3   | 40  |
| R350              | R350-02   | mafic volcanic | 543716  | 6983053  | 9.8                | 0.04    | 0.02     | 0.30 | < 0.005   | < 0.01                   | < 0.01                   | 0.31 | 12   | 12     | 1.0   | 38  |
| R350              | R350-03   | mafic volcanic | 543750  | 6983044  | 8.5                | 0.02    | 0.10     | 1.6  | 0.10      | 0.05                     | 0.05                     | 1.6  | 10   | 8.1    | 1.0   | 6.2 |
| R350              | R350-04   | mafic volcanic | 543744  | 6983077  | 9.5                | 0.08    | < 0.005  | 0.08 | 0.01      | < 0.01                   | < 0.01                   | 0.31 | 11   | 11     | 0.3   | 37  |
|                   |           |                |         |          | MINIMUM            | 8.5     | 0.02     | 0.01 | 0.08      | 0.01                     | < 0.01                   | 0.31 | 10   | 8.1    | 0.3   | 6.2 |
|                   |           |                |         |          | MAXIMUM            | 9.8     | 0.08     | 0.10 | 1.6       | 0.05                     | 0.05                     | 1.6  | 12   | 12     | 1.0   | 40  |
|                   |           |                |         |          | MEDIAN             | 9.5     | 0.04     | 0.01 | 0.20      | 0.01                     | nc                       | 0.31 | 12   | 11     | 0.6   | 38  |
|                   |           |                |         |          | AVERAGE            | 9.0     | 0.05     | 0.03 | 0.53      | 0.03                     | nc                       | 0.62 | 11   | 11     | 0.7   | 30  |
|                   |           |                |         |          | STANDARD DEVIATION | nc      | 0.02     | 0.04 | 0.74      | 0.05                     | nc                       | 0.62 | 1.1  | 1.8    | 0.4   | 16  |
|                   |           |                |         |          | 75TH PERCENTILE    | nc      | 0.06     | 0.04 | 0.63      | 0.03                     | nc                       | 0.62 | 12   | 12     | 1.0   | 39  |
| R359              | R359-01   | mafic volcanic | 543706  | 6983412  | 9.6                | 0.05    | 0.11     | 1.9  | 0.01      | < 0.01                   | < 0.01                   | 0.31 | 11   | 11     | 6.1   | 37  |
| R359              | R359-02   | mafic volcanic | 543767  | 6983412  | 9.3                | 0.14    | 0.37     | 6.2  | 0.09      | 0.05                     | 0.04                     | 1.6  | 15   | 14     | 4.0   | 10  |
| R359              | R359-03   | mafic volcanic | 543767  | 6983384  | 9.6                | 0.03    | 0.01     | 0.12 | 0.01      | < 0.01                   | 0.01                     | 0.31 | 9.0  | 8.7    | 0.4   | 29  |
|                   |           |                |         |          | MINIMUM            | 9.3     | 0.03     | 0.01 | 0.12      | 0.01                     | < 0.01                   | 0.31 | 9.0  | 8.7    | 0.4   | 10  |
|                   |           |                |         |          | MAXIMUM            | 9.6     | 0.14     | 0.37 | 6.2       | 0.09                     | 0.05                     | 0.04 | 1.6  | 15     | 6.1   | 37  |
|                   |           |                |         |          | MEDIAN             | 9.6     | 0.05     | 0.11 | 1.9       | 0.01                     | nc                       | 0.31 | 11   | 11     | 4.0   | 29  |
|                   |           |                |         |          | AVERAGE            | 9.4     | 0.07     | 0.16 | 2.7       | 0.04                     | nc                       | 0.73 | 12   | 11     | 3.5   | 25  |
|                   |           |                |         |          | STANDARD DEVIATION | nc      | 0.06     | 0.19 | 3.2       | 0.04                     | nc                       | 0.72 | 3.1  | 2.5    | 2.9   | 14  |
|                   |           |                |         |          | 75TH PERCENTILE    | nc      | 0.10     | 0.24 | 4.1       | 0.05                     | nc                       | 0.94 | 13   | 12     | 5.0   | 33  |
| T041              | T041-01   | mafic volcanic | 547825  | 6978093  | 9.5                | 0.08    | 0.14     | 2.3  | 0.02      | < 0.01                   | 0.02                     | 0.31 | 15   | 15     | 7.3   | 49  |
| T041              | T041-02   | mafic volcanic | 547781  | 6978126  | 9.6                | 0.05    | 0.05     | 0.77 | 0.02      | < 0.01                   | 0.02                     | 0.31 | 11   | 10     | 2.5   | 34  |
| T041              | T041-03   | mafic volcanic | 547737  | 6978155  | 9.3                | 0.07    | 0.02     | 0.25 | 0.03      | < 0.01                   | 0.03                     | 0.31 | 10   | 10     | 0.8   | 32  |
| T041              | T041-04   | mafic volcanic | 547689  | 6978210  | 8.9                | 0.11    | 0.01     | 0.13 | 0.02      | < 0.01                   | 0.02                     | 0.31 | 6.6  | 6.3    | 0.4   | 21  |
| T041              | T041-05   | mafic volcanic | 547652  | 6978231  | 8.8                | 0.14    | 0.23     | 3.8  | 0.16      | 0.04                     | 0.11                     | 1.3  | 12   | 11     | 3.0   | 10  |
|                   |           |                |         |          | MINIMUM            | 8.8     | 0.05     | 0.01 | 0.13      | 0.02                     | < 0.01                   | 0.31 | 6.6  | 6.3    | 0.4   | 10  |
|                   |           |                |         |          | MAXIMUM            | 9.6     | 0.14     | 0.23 | 3.8       | 0.16                     | 0.04                     | 1.3  | 15   | 15     | 7.3   | 49  |
|                   |           |                |         |          | MEDIAN             | 9.3     | 0.08     | 0.05 | 0.77      | 0.02                     | nc                       | 0.31 | 11   | 10     | 2.5   | 32  |
|                   |           |                |         |          | AVERAGE            | 9.1     | 0.09     | 0.09 | 1.4       | 0.05                     | nc                       | 0.50 | 11   | 10     | 2.8   | 29  |
|                   |           |                |         |          | STANDARD DEVIATION | nc      | 0.03     | 0.09 | 1.6       | 0.06                     | nc                       | 0.42 | 3.2  | 3.1    | 2.7   | 15  |
|                   |           |                |         |          | 75TH PERCENTILE    | nc      | 0.11     | 0.14 | 2.3       | 0.03                     | nc                       | 0.31 | 12   | 11     | 3.0   | 34  |
| T043              | T43-01    | mafic volcanic | 547437  | 6976944  | 9.4                | 0.04    | 0.03     | 0.50 | 0.02      | < 0.01                   | 0.02                     | 0.31 | 10   | 9.5    | 1.6   | 32  |
| T043              | T43-02    | mafic volcanic | 547500  | 6976956  | 9.0                | 0.07    | 0.07     | 1.2  | 0.15      | 0.08                     | 0.07                     | 2.5  | 13   | 10     | 0.5   | 5.0 |
| T043              | T43-03    | mafic volcanic | 547642  | 6976980  | 9.2                | 0.03    | 0.03     | 0.43 | 0.04      | < 0.01                   | 0.04                     | 0.31 | 12   | 11     | 1.4   | 37  |
| T043              | T43-04    | mafic volcanic | 547585  | 6976964  | 9.0                | 0.17    | 0.30     | 5.0  | 0.09      | 0.06                     | 0.03                     | 1.9  | 16   | 14     | 2.7   | 8.7 |
| T043              | T43-05    | mafic volcanic | 547537  | 6976956  | 9.3                | 0.27    | 0.99     | 16   | 0.01      | < 0.01                   | < 0.01                   | 0.31 | 26   | 25     | 53    | 82  |
|                   |           |                |         |          | MINIMUM            | 9.0     | 0.03     | 0.03 | 0.43      | 0.01                     | < 0.01                   | 0.31 | 10   | 9.5    | 0.5   | 5.0 |
|                   |           |                |         |          | MAXIMUM            | 9.4     | 0.27     | 0.99 | 16        | 0.15                     | 0.08                     | 2.5  | 26   | 25     | 53    | 82  |
|                   |           |                |         |          | MEDIAN             | 9.2     | 0.07     | 0.07 | 1.2       | 0.04                     | nc                       | 0.31 | 13   | 11     | 1.6   | 32  |
|                   |           |                |         |          | AVERAGE            | 9.1     | 0.12     | 0.28 | 4.7       | 0.06                     | nc                       | 0.03 | 1.1  | 14     | 12    | 33  |
|                   |           |                |         |          | STANDARD DEVIATION | nc      | 0.10     | 0.41 | 6.8       | 0.06                     | nc                       | 0.02 | 1.1  | 6.3    | 2.3   | 31  |
|                   |           |                |         |          | 75TH PERCENTILE    | nc      | 0.17     | 0.30 | 5.0       | 0.09                     | nc                       | 0.04 | 1.9  | 16     | 2.7   | 37  |
| T046              | T046-01   | mafic volcanic | 552923  | 6981408  | 8.9                | 0.53    | 1.9      | 32   | 0.02      | < 0.01                   | 0.02                     | 0.31 | 42   | 42     | 104   | 135 |
| T046              | T046-02   | mafic volcanic | 552872  | 6981426  | 9.0                | 1.2     | 5.4      | 90   | 0.02      | < 0.01                   | < 0.01                   | 0.31 | 96   | 96     | 289   | 310 |
| T046              | T046-03   | mafic volcanic | 552811  | 6981446  | 9.1                | 0.65    | 3.0      | 49   | 0.02      | < 0.01                   | < 0.01                   | 0.31 | 55   | 55     | 159   | 178 |
| T046              | T046-04   | mafic volcanic | 552708  | 6981506  | 9.0                | 0.61    | 2.5      | 42   | 0.06      | 0.02                     | 0.04                     | 0.62 | 51   | 51     | 67    | 83  |
| T046              | T046-05   | mafic volcanic | 552603  | 6981559  | 9.2                | 0.33    | 1.4      | 23   | 0.01      | < 0.01                   | 0.01                     | 0.31 | 32   | 31     | 74    | 102 |
|                   |           |                |         |          | MINIMUM            | 8.9     | 0.33     | 1.4  | 23        | 0.01                     | < 0.01                   | 0.31 | 32   | 31     | 67    | 83  |
|                   |           |                |         |          | MAXIMUM            | 9.2     | 1.2      | 5.4  | 90        | 0.06                     | 0.02                     | 0.04 | 96   | 96     | 289   | 310 |
|                   |           |                |         |          | MEDIAN             | 9.0     | 0.61     | 2.5  | 42        | 0.02                     | nc                       | 0.31 | 51   | 51     | 104   | 135 |
|                   |           |                |         |          | AVERAGE            | 9.1     | 0.65     | 2.8  | 47        | 0.02                     | nc                       | 0.37 | 55   | 55     | 139   | 162 |
|                   |           |                |         |          | STANDARD DEVIATION | nc      | 0.30     | 1.5  | 26        | 0.02                     | nc                       | 0.01 | 25   | 25     | 92    | 91  |
|                   |           |                |         |          | 75TH PERCENTILE    | nc      | 0.65     | 3.0  | 49        | 0.02                     | nc                       | 0.02 | 55   | 55     | 159   | 178 |

## Notes:

carbonate neutralization potential (CaNP); neutralization potential (NP); acid potential (AP); and Net NP reported in t CaCO<sub>3</sub> / 1000 tS(T)=total sulphur; S(SO<sub>4</sub>)=sulphate sulphur; S(S<sup>2-</sup>)=sulphide sulphur; CO<sub>3</sub>=carbonate; TC=total carbon

nc= not calculated

Appendix A.2  
Acid-Base Accounting Results - Esker (Till) Material for Road Construction  
Meliadine Project, Nunavut  
Agnico-Eagle Mines Ltd

| PROPOSED LOCATION | SAMPLE ID | SAMPLE TYPE | EASTING | NORTHING  | PASTE pH        | CO3<br>% | TC<br>% | CaNP | S(T)<br>% | S(SO <sub>4</sub> )<br>% | S(S <sup>2-</sup> )<br>% | AP   | NP   | Net NP | CaNPR | NPR |
|-------------------|-----------|-------------|---------|-----------|-----------------|----------|---------|------|-----------|--------------------------|--------------------------|------|------|--------|-------|-----|
| B01A              | B1A-01    | Till        | 539731  | 6988294   | 7.4             | 0.19     | 0.72    | 3.2  | 0.03      | 0.01                     | 0.02                     | 0.31 | 6.2  | 5.9    | 10    | 20  |
| B01A              | B1A-02    | Till        | 539677  | 6988318   | 6.8             | 0.26     | 2.0     | 4.3  | 0.01      | < 0.01                   | 0.01                     | 0.31 | 5.6  | 5.3    | 14    | 18  |
| B01A              | B1A-03    | Till        | 539620  | 6988359   | 7.4             | 0.10     | 0.57    | 1.7  | 0.01      | < 0.01                   | 0.01                     | 0.31 | 6.6  | 6.3    | 5.6   | 21  |
|                   |           |             |         |           | 6.8             | 0.10     | 0.57    | 1.7  | 0.01      | < 0.01                   | 0.01                     | 0.31 | 5.6  | 5.3    | 5.6   | 18  |
|                   |           |             |         |           | 7.4             | 0.26     | 2.0     | 4.3  | 0.03      | 0.01                     | 0.02                     | 0.31 | 6.6  | 6.3    | 14    | 21  |
|                   |           |             |         |           | 7.4             | 0.19     | 0.72    | 3.2  | 0.01      | 0.01                     | 0.01                     | 0.31 | 6.2  | 5.9    | 10    | 20  |
|                   |           |             |         |           | 7.1             | 0.18     | 1.1     | 3.1  | 0.02      | nc                       | 0.01                     | 0.31 | 6.1  | 5.8    | 9.9   | 20  |
|                   |           |             |         |           | nc              | 0.08     | 0.76    | 1.3  | 0.01      | nc                       | 0.01                     | 0.00 | 0.50 | 0.50   | 4.2   | 1.6 |
|                   |           |             |         |           | 75TH PERCENTILE | nc       | 0.22    | 1.3  | 3.7       | 0.02                     | nc                       | 0.31 | 6.4  | 6.1    | 12    | 21  |
| B03               | B3-01     | Till        | 539344  | 6987509   | 8.8             | 0.10     | 0.15    | 1.7  | < 0.005   | < 0.01                   | < 0.01                   | 0.31 | 8.3  | 8.0    | 5.5   | 27  |
| B03               | B3-02     | Till        | 539323  | 6987523   | 9.0             | 0.64     | 0.23    | 11   | 0.01      | < 0.01                   | < 0.01                   | 0.31 | 17.4 | 17.1   | 35    | 56  |
| B03               | B3-03     | Till        | 539340  | 6987549   | 9.1             | 1.3      | 0.46    | 21   | 0.01      | < 0.01                   | < 0.01                   | 0.31 | 27.7 | 27.4   | 69    | 89  |
|                   |           |             |         |           | 8.8             | 0.10     | 0.15    | 1.7  | 0.005     | < 0.01                   | < 0.01                   | 0.31 | 8.3  | 8.0    | 5.5   | 27  |
|                   |           |             |         |           | 9.1             | 1.3      | 0.46    | 21   | 0.01      | < 0.01                   | < 0.01                   | 0.31 | 27.7 | 27.4   | 69    | 89  |
|                   |           |             |         |           | 9.0             | 0.64     | 0.23    | 11   | 0.01      | nc                       | nc                       | 0.31 | 17.4 | 17.1   | 35    | 56  |
|                   |           |             |         |           | 9.0             | 0.67     | 0.28    | 11   | 0.01      | nc                       | nc                       | 0.31 | 17.8 | 17.5   | 36    | 57  |
|                   |           |             |         |           | nc              | 0.59     | 0.16    | 9.8  | 0.00      | nc                       | nc                       | 0.00 | 9.7  | 9.7    | 32    | 31  |
|                   |           |             |         |           | 75TH PERCENTILE | nc       | 0.96    | 0.35 | 16        | 0.01                     | nc                       | 0.31 | 22.6 | 22.3   | 52    | 73  |
| B05               | B5-01     | Till        | 540880  | 6985863   | 7.4             | 0.06     | 0.52    | 1.1  | 0.01      | < 0.01                   | < 0.01                   | 0.31 | 5.4  | 5.1    | 3.4   | 17  |
| B05               | B5-02     | Till        | 540833  | 6985831   | 8.5             | 0.06     | 0.13    | 1.0  | < 0.005   | < 0.01                   | < 0.01                   | 0.31 | 6.9  | 6.6    | 3.1   | 22  |
| B05               | B5-03     | Till        | 540891  | 6985825   | 8.2             | 0.27     | 0.59    | 4.5  | 0.02      | < 0.01                   | 0.02                     | 0.31 | 9.9  | 9.6    | 15    | 32  |
|                   |           |             |         |           | 7.4             | 0.06     | 0.13    | 1.0  | 0.005     | < 0.01                   | < 0.01                   | 0.31 | 5.4  | 5.1    | 3.1   | 17  |
|                   |           |             |         |           | 8.5             | 0.27     | 0.59    | 4.5  | 0.02      | < 0.01                   | 0.02                     | 0.31 | 9.9  | 9.6    | 15    | 32  |
|                   |           |             |         |           | 8.2             | 0.06     | 0.52    | 1.1  | 0.01      | nc                       | nc                       | 0.31 | 6.9  | 6.6    | 3.4   | 22  |
|                   |           |             |         |           | 7.8             | 0.13     | 0.41    | 2.2  | 0.01      | nc                       | nc                       | 0.31 | 7.4  | 7.1    | 7.0   | 24  |
|                   |           |             |         |           | nc              | 0.12     | 0.24    | 2.0  | 0.01      | nc                       | nc                       | 0.00 | 2.3  | 2.3    | 6.5   | 7.4 |
|                   |           |             |         |           | 75TH PERCENTILE | nc       | 0.17    | 0.55 | 2.8       | 0.01                     | nc                       | 0.31 | 8.4  | 8.1    | 9.0   | 27  |
| B06A              | B6A-01    | Till        | 542237  | 6984595   | 8.3             | 0.05     | 0.15    | 0.85 | 0.01      | < 0.01                   | 0.01                     | 0.31 | 6.4  | 6.1    | 2.7   | 21  |
| B06A              | B6A-02    | Till        | 542187  | 6984598   | 7.8             | 0.05     | 0.23    | 0.87 | < 0.005   | < 0.01                   | < 0.01                   | 0.31 | 5.1  | 4.8    | 2.8   | 17  |
| B06A              | B6A-03    | Till        | 542212  | 6984637   | 8.2             | 0.05     | 0.13    | 0.87 | 0.01      | < 0.01                   | < 0.01                   | 0.31 | 6.2  | 5.9    | 2.8   | 20  |
|                   |           |             |         |           | 7.8             | 0.05     | 0.13    | 0.85 | 0.005     | < 0.01                   | < 0.01                   | 0.31 | 5.1  | 4.8    | 2.7   | 17  |
|                   |           |             |         |           | 8.3             | 0.05     | 0.23    | 0.87 | 0.01      | < 0.01                   | 0.01                     | 0.31 | 6.4  | 6.1    | 2.8   | 21  |
|                   |           |             |         |           | 8.2             | 0.05     | 0.15    | 0.87 | 0.01      | nc                       | nc                       | 0.31 | 6.2  | 5.9    | 2.8   | 20  |
|                   |           |             |         |           | 8.0             | 0.05     | 0.17    | 0.86 | 0.01      | nc                       | nc                       | 0.31 | 5.9  | 5.6    | 2.8   | 19  |
|                   |           |             |         |           | nc              | 0.00     | 0.05    | 0.01 | 0.00      | nc                       | nc                       | 0.00 | 0.70 | 0.70   | 0.03  | 2.2 |
|                   |           |             |         |           | 75TH PERCENTILE | nc       | 0.05    | 0.19 | 0.87      | 0.01                     | nc                       | 0.31 | 6.3  | 6.0    | 2.8   | 20  |
| B08               | B8-01     | Till        | 543567  | 6983989   | 7.3             | 0.06     | 0.54    | 1.0  | 0.02      | < 0.01                   | 0.02                     | 0.31 | 6.4  | 6.1    | 3.2   | 21  |
| B08               | B8-02     | Till        | 543588  | 6983993   | 7.6             | 0.06     | 0.66    | 1.0  | 0.01      | < 0.01                   | 0.01                     | 0.31 | 5.2  | 4.9    | 3.1   | 17  |
| B08               | B8-03     | Till        | 543569  | 6984023   | 7.4             | 0.05     | 0.55    | 0.83 | 0.02      | < 0.01                   | 0.02                     | 0.31 | 6.8  | 6.5    | 2.7   | 22  |
|                   |           |             |         |           | 7.3             | 0.05     | 0.54    | 0.83 | 0.01      | < 0.01                   | 0.01                     | 0.31 | 5.2  | 4.9    | 2.7   | 17  |
|                   |           |             |         |           | 7.6             | 0.06     | 0.66    | 1.0  | 0.02      | < 0.01                   | 0.02                     | 0.31 | 6.8  | 6.5    | 3.2   | 22  |
|                   |           |             |         |           | 7.4             | 0.06     | 0.55    | 1.0  | 0.02      | nc                       | 0.02                     | 0.31 | 6.4  | 6.1    | 3.1   | 21  |
|                   |           |             |         |           | 7.4             | 0.06     | 0.58    | 0.93 | 0.02      | nc                       | 0.02                     | 0.31 | 6.1  | 5.8    | 3.0   | 20  |
|                   |           |             |         |           | nc              | 0.01     | 0.07    | 0.09 | 0.00      | nc                       | 0.01                     | 0.00 | 0.83 | 0.83   | 0.3   | 2.7 |
|                   |           |             |         |           | 75TH PERCENTILE | nc       | 0.06    | 0.61 | 1.0       | 0.02                     | nc                       | 0.31 | 6.6  | 6.3    | 3.2   | 21  |
| B10               | B10-01    | Till        | 545525  | 6980771   | 7.1             | 0.05     | 0.78    | 0.80 | 0.01      | < 0.01                   | < 0.01                   | 0.31 | 5.4  | 5.1    | 2.6   | 17  |
| B10               | B10-02    | Till        | 545560  | 6980764   | 7.8             | 0.05     | 0.45    | 0.83 | 0.01      | < 0.01                   | 0.01                     | 0.31 | 7.2  | 6.9    | 2.7   | 23  |
| B10               | B10-03    | Till        | 545495  | 6980798   | 7.8             | 0.04     | 0.38    | 0.60 | 0.02      | < 0.01                   | 0.02                     | 0.31 | 7.5  | 7.2    | 1.9   | 24  |
|                   |           |             |         |           | 7.1             | 0.04     | 0.38    | 0.60 | 0.01      | < 0.01                   | < 0.01                   | 0.31 | 5.4  | 5.1    | 1.9   | 17  |
|                   |           |             |         |           | 7.8             | 0.05     | 0.78    | 0.83 | 0.02      | < 0.01                   | 0.02                     | 0.31 | 7.5  | 7.2    | 2.7   | 24  |
|                   |           |             |         |           | 7.8             | 0.05     | 0.45    | 0.80 | 0.01      | nc                       | nc                       | 0.31 | 7.2  | 6.9    | 2.6   | 23  |
|                   |           |             |         |           | 7.5             | 0.04     | 0.53    | 0.74 | 0.01      | nc                       | nc                       | 0.31 | 6.7  | 6.4    | 2.4   | 22  |
|                   |           |             |         |           | nc              | 0.01     | 0.21    | 0.13 | 0.01      | nc                       | nc                       | 0.00 | 1.1  | 1.1    | 0.4   | 3.7 |
|                   |           |             |         |           | 75TH PERCENTILE | nc       | 0.05    | 0.61 | 0.82      | 0.02                     | nc                       | 0.31 | 7.4  | 7.0    | 2.6   | 24  |
| B11               | B11A-1    | Till        | 546670  | 6979248   | 7.7             | 0.05     | 0.45    | 0.75 | 0.02      | < 0.01                   | 0.02                     | 0.31 | 6.9  | 6.6    | 2.4   | 22  |
| B11               | B11A-2    | Till        | 546628  | 6979191   | 7.6             | 0.05     | 0.43    | 0.83 | 0.02      | < 0.01                   | 0.02                     | 0.31 | 6.1  | 5.8    | 2.7   | 20  |
| B11               | B11A-3    | Till        | 546630  | 6979262   | 6.9             | 0.08     | 0.82    | 1.3  | 0.01      | < 0.01                   | 0.01                     | 0.31 | 5.5  | 5.2    | 4.3   | 18  |
|                   |           |             |         |           | 6.9             | 0.05     | 0.43    | 0.75 | 0.01      | < 0.01                   | 0.01                     | 0.31 | 5.5  | 5.2    | 2.4   | 18  |
|                   |           |             |         |           | 7.7             | 0.08     | 0.82    | 1.3  | 0.02      | < 0.01                   | 0.02                     | 0.31 | 6.9  | 6.6    | 4.3   | 22  |
|                   |           |             |         |           | 7.6             | 0.05     | 0.45    | 0.83 | 0.02      | nc                       | 0.02                     | 0.31 | 6.1  | 5.8    | 2.7   | 20  |
|                   |           |             |         |           | 7.2             | 0.06     | 0.57    | 1.0  | 0.02      | nc                       | 0.02                     | 0.31 | 6.2  | 5.9    | 3.1   | 20  |
|                   |           |             |         |           | nc              | 0.02     | 0.22    | 0.31 | 0.00      | nc                       | 0.01                     | 0.00 | 0.7  | 0.7    | 1.0   | 2.3 |
|                   |           |             |         |           | 75TH PERCENTILE | nc       | 0.06    | 0.63 | 1.1       | 0.02                     | nc                       | 0.31 | 6.5  | 6.2    | 3.5   | 21  |
| B12               | B12-01    | Till        | 547557  | 6977050.0 | 7.8             | 0.06     | 0       | 1.0  | 0.01      | < 0.01                   | < 0.01                   | 0.31 | 5.2  | 4.9    | 3.3   | 17  |
| B12               | B12-02    | Till        | 547522  | 6977094.0 | 8.8             | 0.04     | 0       | 0.68 | 0.01      | < 0.01                   | < 0.01                   | 0.31 | 6.8  | 6.5    | 2.2   | 22  |
| B12               | B12-03    | Till        | 547482  | 6977199.0 | 8.0             | 0.05     | 0       | 0.88 | 0.01      | < 0.01                   | < 0.01                   | 0.31 | 6.2  | 5.9    | 2.9   | 20  |
|                   |           |             |         |           | 7.8             | 0.04     | 0.08    | 0.68 | 0.01      | < 0.01                   | < 0.01                   | 0.31 | 5.2  | 4.9    | 2.2   | 17  |
|                   |           |             |         |           | 8.8             | 0.05     | 0.45    | 1.0  | 0.01      | < 0.01                   | < 0.01                   | 0.31 | 6.8  | 6.5    | 3.3   | 22  |
|                   |           |             |         |           | 8.0             | 0.05     | 0.27    | 0.88 | 0.01      | nc                       | nc                       | 0.31 | 6.2  | 5.9    | 2.9   | 20  |
|                   |           |             |         |           | 8.0             | 0.05     | 0.27    | 0.86 | 0.01      | nc                       | nc                       | 0.31 | 6.1  | 5.8    | 2.8   | 20  |
|                   |           |             |         |           | nc              | 0.01     | 0.19    | 0.17 | 0.00      | nc                       | nc                       | 0.00 | 0.81 | 0.81   | 0.5   | 2.6 |
|                   |           |             |         |           | 75TH PERCENTILE | nc       | 0.06    | 0.36 | 1.0       | 0.01                     | nc                       | 0.31 | 6.5  | 6.2    | 3.1   | 21  |
| B13               | B13-02 A  | Till        | 546920  | 6974354   | 5.8             | 0.10     | 4.37    | 1.7  | 0.09      | 0.02                     | 0.07                     | 0.62 | 4.5  | 3.9    | 2.8   | 7.3 |
| B13               | B13-02 B  | Till        | 546921  | 6974302   | 6.5             | 0.08     | 1.57    | 1.3  | 0.05      | 0.02                     | 0.03                     | 0.62 | 5.2  | 4.6    | 2.0   | 8.4 |

## Acid-Base Accounting Results - Esker (Till) Material for Road Construction

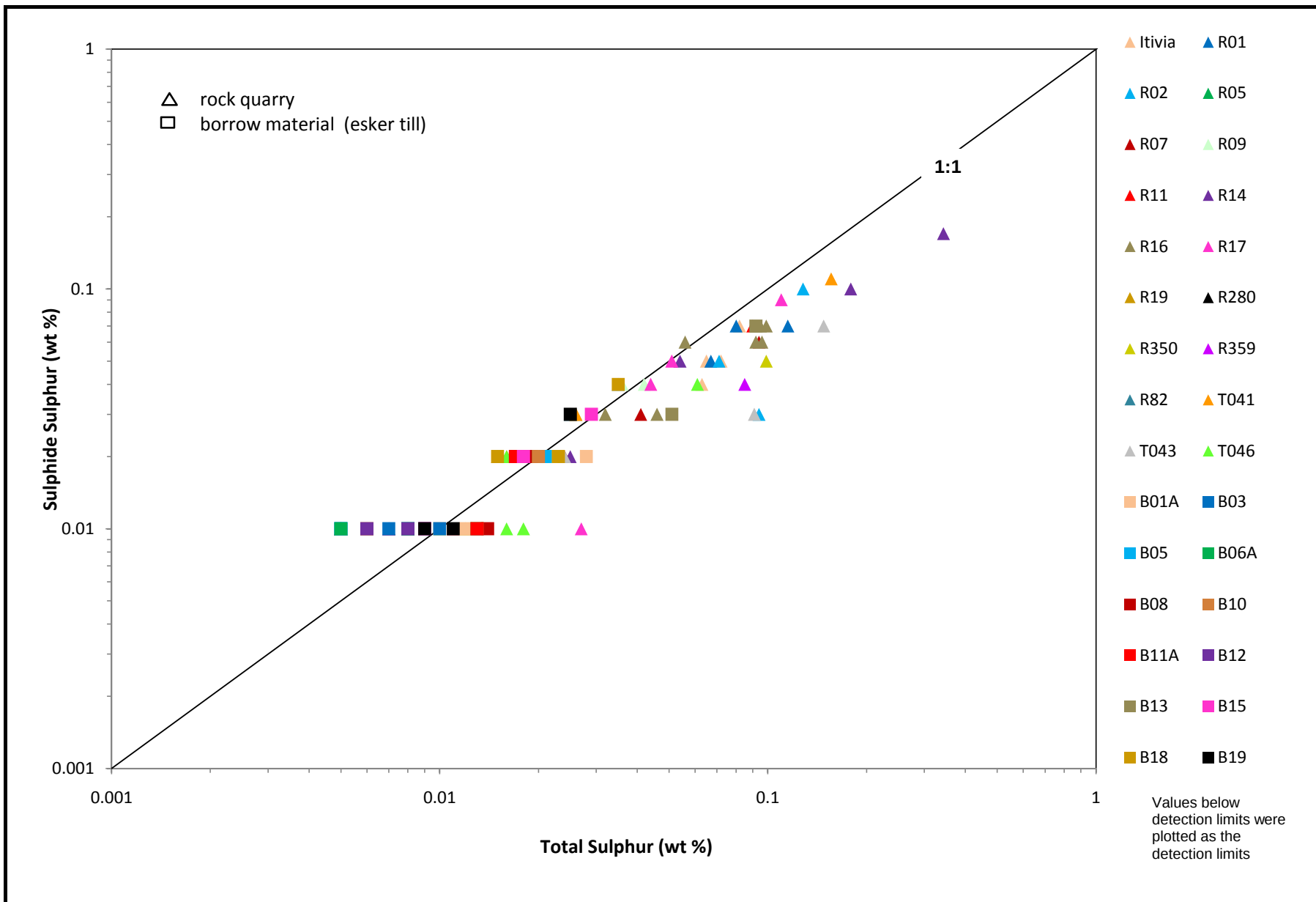
Meliadine Project, Nunavut

Agnico-Eagle Mines Ltd

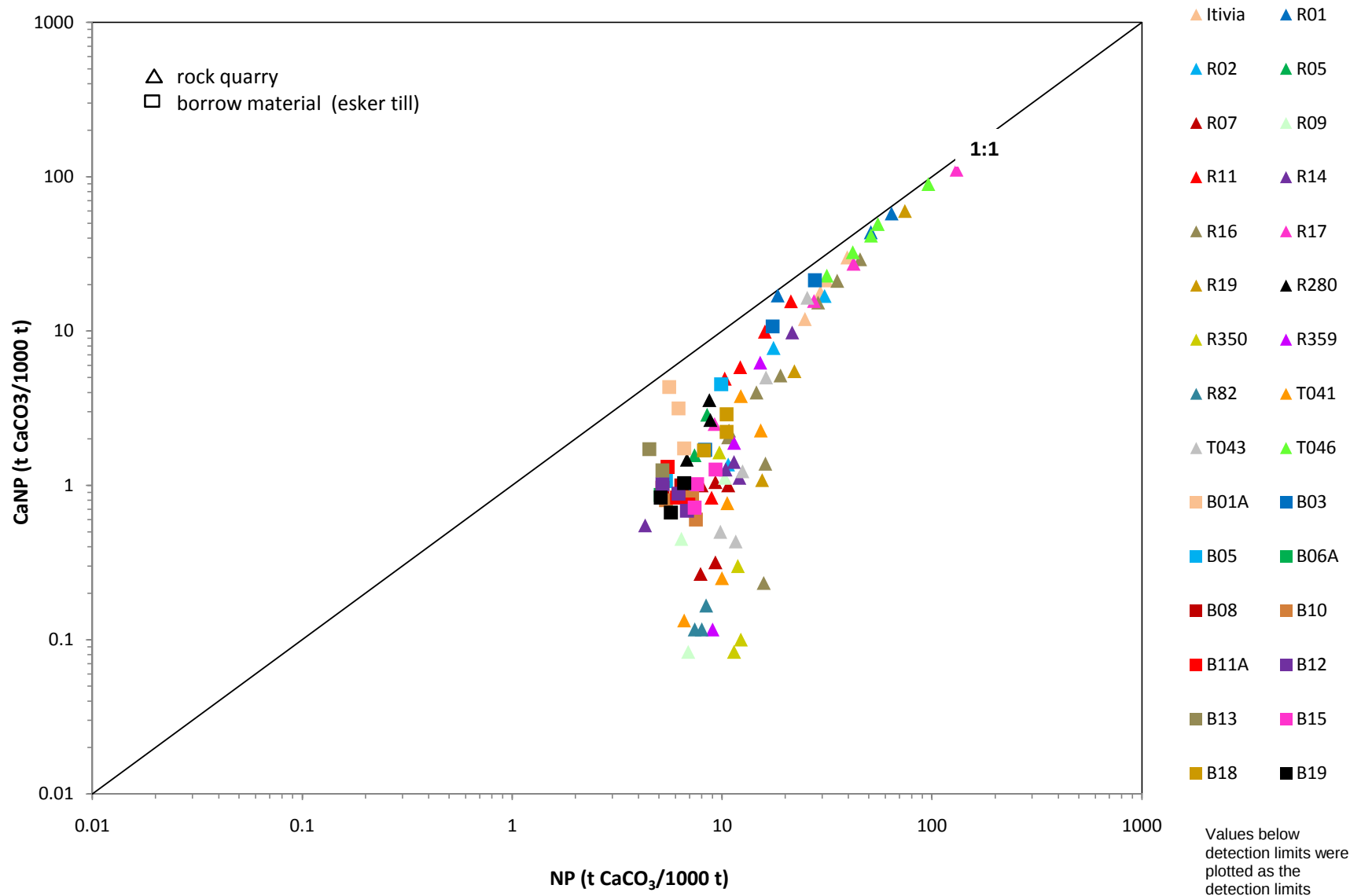
| PROPOSED LOCATION | SAMPLE ID | SAMPLE TYPE | EASTING | NORTHING | PASTE pH | CO3  | TC   | CaNP | S(T)    | S(SO <sub>4</sub> ) | S(S <sup>2-</sup> ) | AP   | NP   | Net NP | CaNPR | NPR |
|-------------------|-----------|-------------|---------|----------|----------|------|------|------|---------|---------------------|---------------------|------|------|--------|-------|-----|
|                   |           |             |         |          |          | %    | %    |      | %       | %                   | %                   |      |      |        |       |     |
| B15               | B15-01    | Till        | 546192  | 6972523  | 7.7      | 0.08 | 0.41 | 1.3  | 0.02    | < 0.01              | 0.02                | 0.31 | 9.3  | 9.0    | 4.1   | 30  |
| B15               | B15-02    | Till        | 546107  | 6972573  | 8.1      | 0.04 | 0.14 | 0.72 | 0.01    | < 0.01              | < 0.01              | 0.31 | 7.4  | 7.1    | 2.3   | 24  |
| B15               | B15-03    | Till        | 546250  | 6972511  | 8.5      | 0.06 | 0.21 | 1.0  | 0.03    | < 0.01              | 0.03                | 0.31 | 7.6  | 7.3    | 3.3   | 25  |
|                   |           |             |         |          | 7.7      | 0.04 | 0.14 | 0.72 | 0.01    | < 0.01              | < 0.01              | 0.31 | 7.4  | 7.1    | 2.3   | 24  |
|                   |           |             |         |          | 8.5      | 0.08 | 0.41 | 1.3  | 0.03    | < 0.01              | 0.03                | 0.31 | 9.3  | 9.0    | 4.1   | 30  |
|                   |           |             |         |          | 8.1      | 0.06 | 0.21 | 1.0  | 0.02    | nc                  | nc                  | 0.31 | 7.6  | 7.3    | 3.3   | 25  |
|                   |           |             |         |          | 8.0      | 0.06 | 0.25 | 1.0  | 0.02    | nc                  | nc                  | 0.31 | 8.1  | 7.8    | 3.2   | 26  |
|                   |           |             |         |          | nc       | 0.02 | 0.14 | 0.28 | 0.01    | nc                  | nc                  | 0.00 | 1.0  | 1.0    | 0.9   | 3.4 |
|                   |           |             |         |          | nc       | 0.07 | 0.31 | 1.1  | 0.02    | nc                  | nc                  | 0.31 | 8.5  | 8.1    | 3.7   | 27  |
| B18               | B18-01    | Till        | 546920  | 6971177  | 8.9      | 0.10 | 0.09 | 1.7  | 0.02    | < 0.01              | 0.02                | 0.31 | 8.2  | 7.9    | 5.4   | 27  |
| B18               | B18-02    | Till        | 546820  | 6971241  | 7.9      | 0.13 | 0.46 | 2.2  | 0.04    | < 0.01              | 0.04                | 0.31 | 10.5 | 10.2   | 7.2   | 34  |
| B18               | B18-03    | Till        | 546737  | 6971254  | 7.9      | 0.17 | 0.35 | 2.9  | 0.02    | < 0.01              | 0.02                | 0.31 | 10.5 | 10.2   | 9.3   | 34  |
|                   |           |             |         |          | 7.9      | 0.10 | 0.09 | 1.7  | 0.02    | < 0.01              | 0.02                | 0.31 | 8.2  | 7.9    | 5.4   | 27  |
|                   |           |             |         |          | 8.9      | 0.17 | 0.46 | 2.9  | 0.04    | < 0.01              | 0.04                | 0.31 | 10.5 | 10.2   | 9.3   | 34  |
|                   |           |             |         |          | 7.9      | 0.13 | 0.35 | 2.2  | 0.02    | nc                  | 0.02                | 0.31 | 10.5 | 10.2   | 7.2   | 34  |
|                   |           |             |         |          | 8.1      | 0.14 | 0.30 | 2.3  | 0.02    | nc                  | 0.03                | 0.31 | 9.7  | 9.4    | 7.3   | 31  |
|                   |           |             |         |          | nc       | 0.04 | 0.19 | 0.60 | 0.01    | nc                  | 0.01                | 0.00 | 1.3  | 1.3    | 1.9   | 4.3 |
|                   |           |             |         |          | nc       | 0.15 | 0.41 | 2.6  | 0.03    | nc                  | 0.03                | 0.31 | 10.5 | 10.2   | 8.2   | 34  |
| B19               | B19-01    | Till        | 544428  | 6971271  | 8.2      | 0.06 | 0.30 | 1.0  | 0.03    | < 0.01              | 0.03                | 0.31 | 6.6  | 6.3    | 3.3   | 21  |
| B19               | B19-02    | Till        | 544364  | 6971277  | 7.2      | 0.04 | 0.75 | 0.67 | 0.01    | < 0.01              | < 0.01              | 0.31 | 5.7  | 5.4    | 2.2   | 18  |
| B19               | B19-03    | Till        | 544348  | 6971248  | 7.8      | 0.05 | 0.37 | 0.83 | 0.01    | < 0.01              | 0.01                | 0.31 | 5.1  | 4.8    | 2.7   | 17  |
|                   |           |             |         |          | 7.2      | 0.04 | 0.30 | 0.67 | 0.01    | < 0.01              | < 0.01              | 0.31 | 5.1  | 4.8    | 2.2   | 17  |
|                   |           |             |         |          | 8.2      | 0.06 | 0.75 | 1.0  | 0.03    | < 0.01              | 0.03                | 0.31 | 6.6  | 6.3    | 3.3   | 21  |
|                   |           |             |         |          | 7.8      | 0.05 | 0.37 | 0.83 | 0.01    | nc                  | nc                  | 0.31 | 5.7  | 5.4    | 2.7   | 18  |
|                   |           |             |         |          | 7.6      | 0.05 | 0.47 | 0.85 | 0.02    | nc                  | nc                  | 0.31 | 5.8  | 5.5    | 2.7   | 19  |
|                   |           |             |         |          | nc       | 0.01 | 0.24 | 0.18 | 0.01    | nc                  | nc                  | 0.00 | 0.75 | 0.75   | 0.6   | 2.4 |
|                   |           |             |         |          | nc       | 0.06 | 0.56 | 0.93 | 0.02    | nc                  | nc                  | 0.31 | 6.2  | 5.8    | 3.0   | 20  |
| Island 1          | 10QUAR01  | Till        | 542062  | 6989700  | 7.3      | 0.04 | 0.47 | 0.6  | < 0.005 | < 0.01              | < 0.01              | 0.31 | 8.5  | 8.2    | 1.9   | 27  |
| Island 1          | 10QUAR02  | Till        | 542025  | 6989670  | 8.2      | 0.03 | 0.13 | 0.6  | 0.01    | < 0.01              | < 0.01              | 0.31 | 8.8  | 8.5    | 1.8   | 28  |
| Island 1          | 10QUAR03  | Till        | 542059  | 6989643  | 8.9      | 3.7  | 1.1  | 61   | 0.01    | < 0.01              | < 0.01              | 0.31 | 76   | 75     | 197   | 244 |
| Island 1          | 10QUAR04  | Till        | 542122  | 6989684  | 8.7      | 0.09 | 0.09 | 1.5  | 0.01    | < 0.01              | < 0.01              | 0.31 | 10   | 10     | 4.9   | 34  |
| Island 1          | 10QUAR05  | Till        | 542086  | 6989743  | 9.3      | 0.22 | 0.10 | 3.7  | 0.02    | 0.01                | < 0.01              | 0.31 | 14   | 14     | 12    | 46  |
| Island 1          | 10QUAR06  | Till        | 542170  | 6989657  | 7.8      | 0.07 | 0.26 | 1.1  | 0.01    | < 0.01              | < 0.01              | 0.31 | 11   | 11     | 3.6   | 35  |
| Island 1          | 10QUAR07  | Till        | 542206  | 6989628  | 8.6      | 0.10 | 0.22 | 1.7  | 0.02    | < 0.01              | < 0.01              | 0.31 | 11   | 11     | 5.3   | 36  |
| Island 1          | 10QUAR08  | Till        | 542300  | 6989607  | 7.3      | 0.03 | 0.44 | 0.5  | 0.01    | < 0.01              | < 0.01              | 0.31 | 8.1  | 7.8    | 1.5   | 26  |
| Island 1          | 10QUAR09  | Till        | 542242  | 6989592  | 6.7      | 0.07 | 1.0  | 1.1  | 0.01    | < 0.01              | < 0.01              | 0.31 | 8.0  | 7.7    | 3.5   | 26  |
|                   |           |             |         |          | 6.7      | 0.03 | 0.09 | 0.47 | < 0.005 | < 0.01              | < 0.01              | 0.31 | 8.0  | 7.7    | 1.5   | 26  |
|                   |           |             |         |          | 9.3      | 3.7  | 1.1  | 61   | 0.02    | 0.01                | < 0.01              | 0.31 | 76   | 75     | 197   | 244 |
|                   |           |             |         |          | 8.2      | 0.07 | 0.26 | 1.1  | 0.01    | nc                  | nc                  | 0.31 | 10   | 10     | 3.6   | 34  |
|                   |           |             |         |          | 7.4      | 0.48 | 0.42 | 8.0  | 0.01    | nc                  | nc                  | 0.31 | 17   | 17     | 26    | 56  |
|                   |           |             |         |          | nc       | 1.20 | 0.39 | 20   | 0.00    | nc                  | nc                  | 0.00 | 22   | 22     | 64    | 71  |
|                   |           |             |         |          | nc       | 0.10 | 0.47 | 1.7  | 0.01    | nc                  | nc                  | 0.31 | 11   | 11     | 5.3   | 36  |
| Island 2          | 10QUAR10  | Till        | 543077  | 6989298  | 6.5      | 0.05 | 1.09 | 0.9  | 0.01    | < 0.01              | < 0.01              | 0.31 | 5.7  | 5.4    | 2.8   | 18  |
| Island 2          | 10QUAR11  | Till        | 543019  | 6989383  | 7.7      | 0.08 | 0.30 | 1.3  | 0.01    | < 0.01              | < 0.01              | 0.31 | 9.7  | 9.4    | 4.2   | 31  |
| Island 2          | 10QUAR12  | Till        | 542969  | 6989345  | 7.0      | 0.04 | 0.71 | 0.7  | 0.01    | < 0.01              | < 0.01              | 0.31 | 10   | 9.8    | 2.3   | 33  |
| Island 2          | 10QUAR13  | Till        | 542950  | 6989320  | 7.3      | 0.07 | 0.46 | 1.1  | 0.01    | < 0.01              | < 0.01              | 0.31 | 7.5  | 7.2    | 3.6   | 24  |
| Island 2          | 10QUAR14  | Till        | 542920  | 6989363  | 8.2      | 0.08 | 0.16 | 1.4  | 0.02    | < 0.01              | < 0.01              | 0.31 | 10   | 10     | 4.5   | 34  |
| Island 2          | 10QUAR15  | Till        | 542878  | 6989372  | 9.1      | 0.46 | 0.26 | 7.6  | 0.03    | < 0.01              | < 0.01              | 0.31 | 17   | 17     | 25    | 56  |
|                   |           |             |         |          | 6.5      | 0.04 | 0.16 | 0.70 | 0.01    | < 0.01              | < 0.01              | 0.31 | 5.7  | 5.4    | 2.3   | 18  |
|                   |           |             |         |          | 9.1      | 0.46 | 1.09 | 7.6  | 0.03    | < 0.01              | < 0.01              | 0.31 | 17   | 17     | 25    | 56  |
|                   |           |             |         |          | 7.4      | 0.07 | 0.38 | 1.2  | 0.01    | nc                  | nc                  | 0.31 | 9.9  | 9.6    | 3.9   | 32  |
|                   |           |             |         |          | 7.1      | 0.13 | 0.50 | 2.2  | 0.02    | nc                  | nc                  | 0.31 | 10   | 9.8    | 7.0   | 33  |
|                   |           |             |         |          | nc       | 0.16 | 0.35 | 2.7  | 0.01    | nc                  | nc                  | 0.00 | 3.8  | 3.9    | 8.7   | 13  |
|                   |           |             |         |          | nc       | 0.08 | 0.65 | 1.4  | 0.01    | nc                  | nc                  | 0.31 | 10   | 10     | 4.4   | 33  |

**Notes:**carbonate neutralization potential (CaNP); neutralization potential (NP); acid potential (AP); and Net NP reported in t CaCO<sub>3</sub> / 1000 tS(T)=total sulphur; S(SO<sub>4</sub>)=sulphate sulphur; S(S<sup>2-</sup>)=sulphide sulphur; CO<sub>3</sub>=carbonate; TC=total carbon

nc- not calculated



|                                                                                                                       |                                              |     |                     |
|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-----|---------------------|
|  <b>Quarry and Borrow Material</b> | <b>Total Sulphur versus Sulphide Sulphur</b> |     |                     |
| <b>Meliadine Gold Project</b><br><b>Agnico-Eagle Mines Ltd.</b>                                                       | DRAWN                                        | TG  | DATE Dec-10         |
|                                                                                                                       | CHECKED                                      | JMC | JOB NO 10-1127-0101 |
|                                                                                                                       | REVIEWED                                     | VJB | FIGURE A.2-1        |



Quarry and Borrow Material

Neutralization Potential (NP) versus Carbonate NP (CaNP)

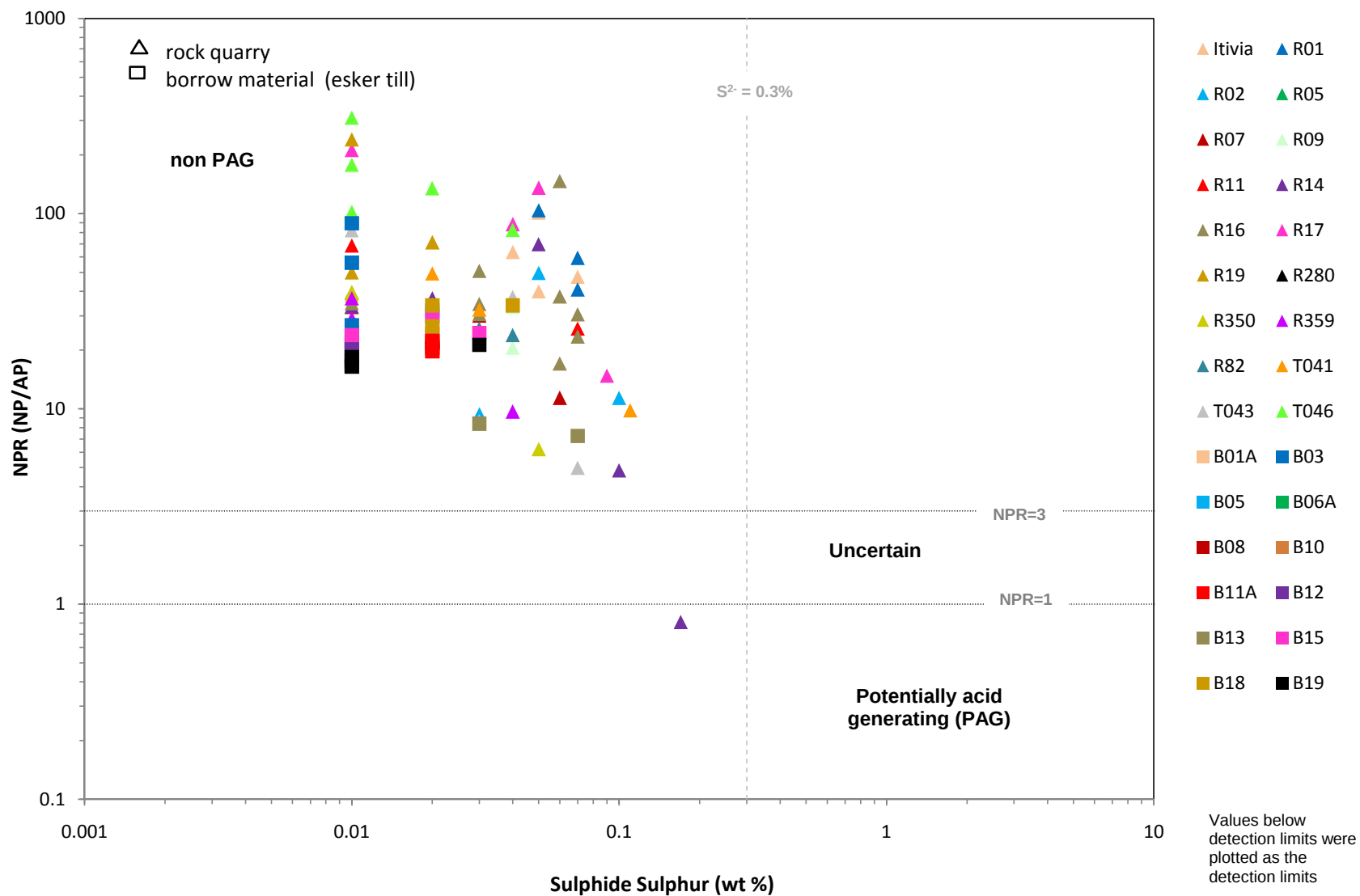
Meliadine Gold Project  
Agnico-Eagle Mines Ltd.

DRAWN TG  
CHECKED JMC  
REVIEWED VJB

DATE Dec-10

JOB NO 10-1127-0101

FIGURE A.2-2



Quarry and Borrow Material

Sulphide Sulphur versus Net Potential Ratio (NPR)

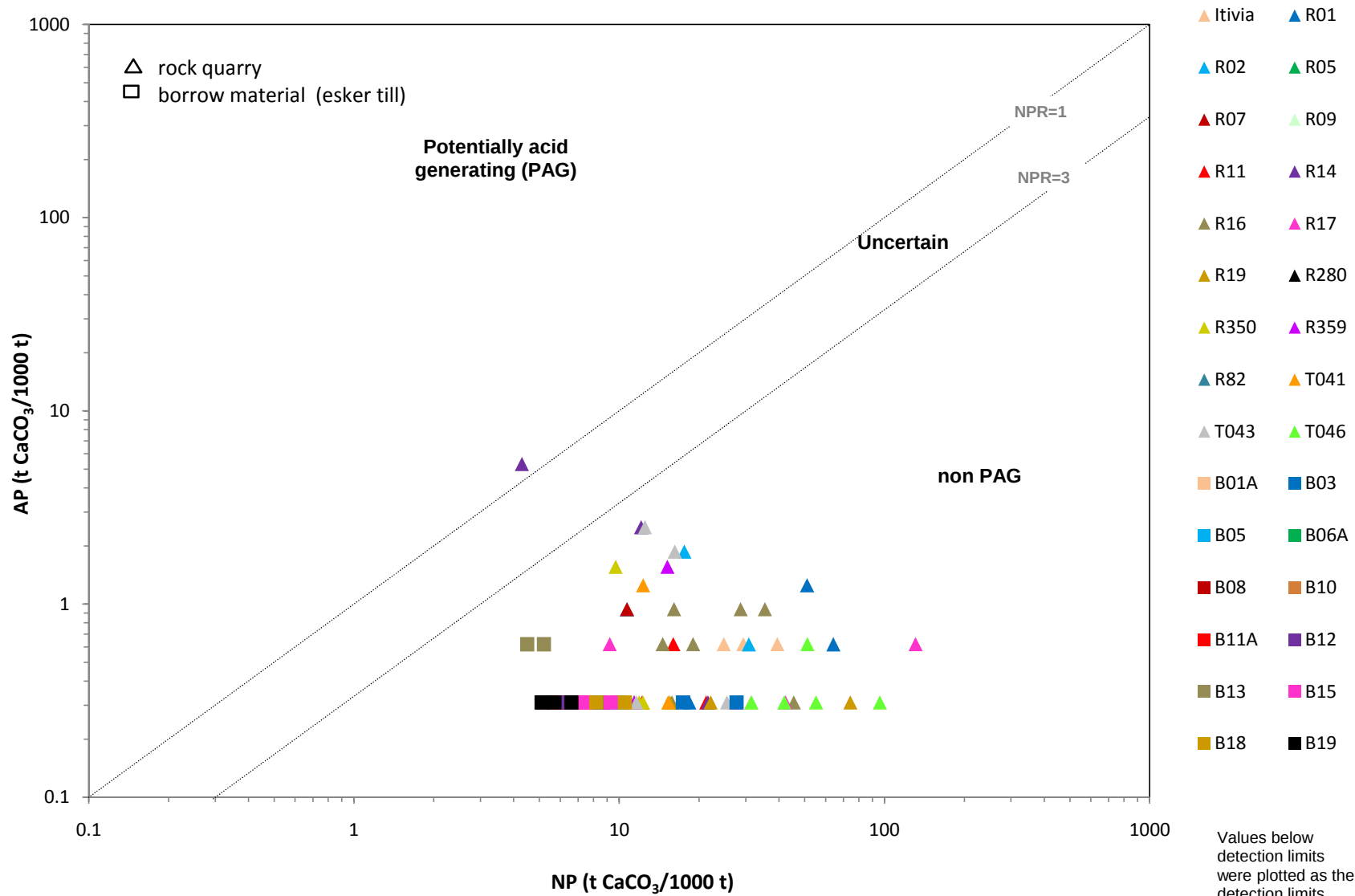
Meliadine Gold Project  
Agnico-Eagle Mines Ltd.

DRAWN TG  
CHECKED JMC  
REVIEWED VJB

DATE Dec-10

JOB NO 10-1127-0101

FIGURE A.2-3



# Quarry and Borrow Material

## Neutralization Potential (NP) versus Acid Potential (AP)

Meliadine Gold Project  
Agnico-Eagle Mines Ltd.

DRAWN TG  
CHECKED JMC  
REVIEWED VJB

DATE Dec-10

JOB NO 10-1127-0101

FIGURE A.2-4



## A.3 SFE Leach Test Tables and Figures

Appendix A.3  
SFE Leachate Results - Rock Quarry Material for Road Construction  
Meliadine Project, Nunavut  
Agnico-Eagle Mines Ltd

| CCME (CEQG) (freshwater aquatic life) <sup>1</sup> (mg/L) |           |                   |                    |          |            | 6.5 - 9.0 |                                     | 0.0001     |            | 0.005 - 0.1 <sup>2</sup> |           | 0.005      |            |            |            | 0.000017 <sup>4</sup> |            | 0.001 <sup>5</sup> |            | 0.002 <sup>6</sup> |     | 0.3 |  |  |  |
|-----------------------------------------------------------|-----------|-------------------|--------------------|----------|------------|-----------|-------------------------------------|------------|------------|--------------------------|-----------|------------|------------|------------|------------|-----------------------|------------|--------------------|------------|--------------------|-----|-----|--|--|--|
| Metal Mine Effluent Regulation (MMER) <sup>2</sup> (mg/L) |           |                   |                    |          |            | 6.0 - 9.5 |                                     |            |            |                          |           | 0.5        |            |            |            |                       |            |                    |            |                    |     |     |  |  |  |
| PROPOSED LOCATION                                         | SAMPLE ID | SAMPLE TYPE       | EASTING            | NORTHING | Initial pH | Final pH  | Hardness<br>mg CaCO <sub>3</sub> /L | Ag<br>mg/L | Al<br>mg/L | As<br>mg/L               | B<br>mg/L | Be<br>mg/L | Bi<br>mg/L | Ca<br>mg/L | Cd<br>mg/L | Co<br>mg/L            | Cr<br>mg/L | Cu<br>mg/L         | Fe<br>mg/L | K<br>mg/L          |     |     |  |  |  |
| Itivia                                                    | Itivia-01 | crushed aggregate | 0                  | 0        | 9.8        | 10.0      | 20                                  | < 0.00001  | 0.21       | 0.0007                   | 0.01      | < 0.00002  | < 0.00001  | 6.7        | < 0.000003 | 0.00004               | 0.0008     | < 0.0005           | < 0.0005   | 0.05               | 2.3 |     |  |  |  |
| Itivia                                                    | Itivia-02 | crushed aggregate | 0                  | 0        | 9.4        | 9.7       | 41                                  | 0.00001    | 0.09       | 0.0004                   | 0.03      | < 0.00002  | < 0.00001  | 12         | < 0.000003 | 0.00009               | < 0.0005   | < 0.0005           | < 0.0005   | 0.01               | 3.6 |     |  |  |  |
| Itivia                                                    | Itivia-03 | crushed aggregate | 0                  | 0        | 9.7        | 9.8       | 19                                  | < 0.00001  | 0.19       | 0.0009                   | 0.03      | < 0.00002  | < 0.00001  | 5.9        | < 0.000003 | 0.00004               | < 0.0005   | < 0.0005           | < 0.0005   | 0.01               | 3.0 |     |  |  |  |
| Itivia                                                    | Itivia-04 | crushed aggregate | 0                  | 0        | 9.8        | 10.0      | 20                                  | < 0.00001  | 0.24       | 0.0004                   | 0.01      | < 0.00002  | < 0.00001  | 6.8        | < 0.000003 | 0.00003               | 0.0005     | < 0.0005           | < 0.0005   | 0.03               | 2.7 |     |  |  |  |
|                                                           |           |                   | MINIMUM            |          | 9.4        | 9.7       | 19                                  | < 0.00001  | 0.09       | 0.0004                   | 0.01      | < 0.00002  | < 0.00001  | 5.9        | < 0.000003 | 0.00003               | < 0.0005   | < 0.0005           | < 0.0005   | 0.01               | 2.3 |     |  |  |  |
|                                                           |           |                   | MAXIMUM            |          | 9.8        | 10.0      | 41                                  | 0.00001    | 0.24       | 0.0009                   | 0.03      | < 0.00002  | < 0.00001  | 12         | < 0.000003 | 0.00009               | 0.0008     | < 0.0005           | < 0.0005   | 0.05               | 3.6 |     |  |  |  |
|                                                           |           |                   | MEDIAN             |          | 9.7        | 9.9       | 20                                  | nc         | 0.20       | 0.0006                   | 0.02      | nc         | nc         | 6.8        | nc         | 0.00004               | nc         | nc                 | 0.02       | 2.8                |     |     |  |  |  |
|                                                           |           |                   | AVERAGE            |          | 9.7        | 9.9       | 25                                  | nc         | 0.18       | 0.0006                   | 0.02      | nc         | nc         | 7.8        | nc         | 0.00005               | nc         | nc                 | 0.03       | 2.9                |     |     |  |  |  |
|                                                           |           |                   | STANDARD DEVIATION |          | 0.17       | nc        | 11                                  | nc         | 0.07       | 0.0002                   | 0.01      | nc         | nc         | 2.7        | nc         | 0.00003               | nc         | nc                 | 0.02       | 0.54               |     |     |  |  |  |
|                                                           |           |                   | 75TH PERCENTILE    |          | 9.8        | nc        | 25                                  | nc         | 0.22       | 0.0008                   | 0.03      | nc         | nc         | 8.1        | nc         | 0.00005               | nc         | nc                 | 0.03       | 3.1                |     |     |  |  |  |
| R01                                                       | R1-01     | meta-sedimentary  | 539573             | 6989375  | 9.8        | 9.3       | 20                                  | < 0.00001  | 0.68       | 0.02                     | 0.002     | < 0.00002  | < 0.00001  | 6.9        | < 0.000003 | 0.0001                | < 0.0005   | 0.002              | 0.02       | 3.2                |     |     |  |  |  |
| R01                                                       | R1-02     | meta-sedimentary  | 539592             | 6989350  | 9.4        | 9.2       | 28                                  | < 0.00001  | 0.92       | 0.03                     | 0.003     | < 0.00002  | < 0.00001  | 8.3        | < 0.000003 | 0.0007                | 0.0005     | 0.013              | 0.17       | 4.0                |     |     |  |  |  |
| R01                                                       | R1-03     | meta-sedimentary  | 539605             | 6989321  | 9.5        | 9.1       | 27                                  | < 0.00001  | 1.0        | 0.07                     | 0.005     | < 0.00002  | < 0.00001  | 8.0        | < 0.000003 | 0.0011                | < 0.0005   | 0.006              | 0.19       | 6.9                |     |     |  |  |  |
|                                                           |           |                   | MINIMUM            |          | 9.4        | 9.1       | 20                                  | < 0.00001  | 0.68       | 0.02                     | 0.002     | < 0.00002  | < 0.00001  | 6.9        | < 0.000003 | 0.0001                | < 0.0005   | 0.002              | 0.02       | 3.2                |     |     |  |  |  |
|                                                           |           |                   | MAXIMUM            |          | 9.8        | 9.3       | 28                                  | < 0.00001  | 1.0        | 0.07                     | 0.005     | < 0.00002  | < 0.00001  | 8.3        | 0.000003   | 0.0011                | 0.001      | 0.013              | 0.19       | 6.9                |     |     |  |  |  |
|                                                           |           |                   | MEDIAN             |          | 9.5        | 9.2       | 27                                  | nc         | 0.92       | 0.03                     | 0.003     | nc         | nc         | 8.0        | nc         | 0.0007                | nc         | 0.006              | 0.17       | 4.0                |     |     |  |  |  |
|                                                           |           |                   | AVERAGE            |          | 9.6        | 9.2       | 25                                  | nc         | 0.87       | 0.04                     | 0.004     | nc         | nc         | 7.7        | nc         | 0.0006                | nc         | 0.007              | 0.12       | 4.7                |     |     |  |  |  |
|                                                           |           |                   | STANDARD DEVIATION |          | 0.21       | nc        | 4.4                                 | nc         | 0.17       | 0.03                     | 0.002     | nc         | nc         | 0.76       | nc         | 0.0005                | nc         | 0.006              | 0.09       | 2.0                |     |     |  |  |  |
|                                                           |           |                   | 75TH PERCENTILE    |          | 9.7        | nc        | 27                                  | nc         | 1.0        | 0.05                     | 0.004     | nc         | nc         | 8.2        | nc         | 0.0009                | nc         | 0.010              | 0.18       | 5.4                |     |     |  |  |  |
| R02                                                       | R2-01     | mafic volcanic    | 543587             | 6983658  | 9.7        | 9.7       | 16                                  | 0.00003    | 1.0        | 0.004                    | 0.003     | < 0.00002  | < 0.00001  | 5.6        | < 0.000003 | 0.00003               | < 0.0005   | 0.002              | 0.02       | 7.2                |     |     |  |  |  |
| R02                                                       | R2-02     | mafic volcanic    | 543507             | 6983688  | 8.3        | 9.7       | 22                                  | 0.00003    | 0.84       | 0.001                    | 0.002     | < 0.00002  | < 0.00001  | 7.4        | < 0.000003 | 0.0001                | < 0.0005   | 0.001              | 0.07       | 3.1                |     |     |  |  |  |
| R02                                                       | R2-03     | mafic volcanic    | 543543             | 6983716  | 9.7        | 9.8       | 17                                  | 0.00002    | 0.98       | 0.001                    | 0.001     | < 0.00002  | < 0.00001  | 5.8        | < 0.000003 | 0.0001                | < 0.0005   | 0.001              | 0.08       | 3.8                |     |     |  |  |  |
|                                                           |           |                   | MINIMUM            |          | 8.3        | 9.7       | 16                                  | 0.00002    | 0.84       | 0.001                    | 0.001     | < 0.00002  | < 0.00001  | 5.6        | < 0.000003 | 0.00003               | < 0.0005   | 0.001              | 0.02       | 3.1                |     |     |  |  |  |
|                                                           |           |                   | MAXIMUM            |          | 9.7        | 9.8       | 22                                  | 0.00003    | 1.0        | 0.004                    | 0.003     | < 0.00002  | < 0.00001  | 7.4        | < 0.000003 | 0.0001                | < 0.0005   | 0.002              | 0.08       | 7.2                |     |     |  |  |  |
|                                                           |           |                   | MEDIAN             |          | 9.7        | 9.7       | 17                                  | 0.00003    | 1.0        | 0.001                    | 0.002     | nc         | nc         | 5.8        | nc         | 0.0001                | nc         | 0.001              | 0.07       | 3.8                |     |     |  |  |  |
|                                                           |           |                   | AVERAGE            |          | 9.2        | 9.7       | 18                                  | 0.00003    | 0.95       | 0.002                    | 0.002     | nc         | nc         | 6.2        | nc         | 0.0001                | nc         | 0.001              | 0.05       | 4.7                |     |     |  |  |  |
|                                                           |           |                   | STANDARD DEVIATION |          | 0.80       | nc        | 3.4                                 | 0.00001    | 0.09       | 0.002                    | 0.001     | nc         | nc         | 1.0        | nc         | 0.0003                | nc         | 0.001              | 0.03       | 2.2                |     |     |  |  |  |
|                                                           |           |                   | 75TH PERCENTILE    |          | 9.7        | nc        | 19                                  | 0.00003    | 1.0        | 0.003                    | 0.003     | nc         | nc         | 6.6        | nc         | 0.0001                | nc         | 0.001              | 0.07       | 5.5                |     |     |  |  |  |
| R05                                                       | R5-01     | granite           | 544805             | 6981409  | 6.4        | 8.5       | 12                                  | 0.00001    | 0.63       | < 0.0002                 | 0.001     | < 0.00002  | < 0.00001  | 0.39       | 0.000003   | 0.00003               | < 0.0005   | < 0.0005           | 0.04       | 2.2                |     |     |  |  |  |
| R05                                                       | R5-02     | granite           | 544828             | 6981425  | 8.6        | 9.4       | 11                                  | < 0.00001  | 1.3        | 0.0003                   | 0.001     | < 0.00002  | < 0.00001  | 4.1        | 0.000003   | 0.0001                | < 0.0005   | 0.001              | 0.03       | 3.1                |     |     |  |  |  |
| R05                                                       | R5-03     | granite           | 544853             | 6981412  | 7.5        | 7.7       | 33                                  | 0.00010    | 0.15       | 0.0003                   | 0.002     | < 0.00002  | 0.0001     | 12.6       | 0.00010    | 0.0002                | < 0.0005   | 0.001              | 0.02       | 4.5                |     |     |  |  |  |
|                                                           |           |                   | MINIMUM            |          | 6.4        | 7.7       | 12                                  | < 0.00001  | 0.15       | < 0.0002                 | 0.001     | < 0.00002  | < 0.00001  | 0.39       | 0.000003   | 0.00003               | < 0.0005   | 0.001              | 0.02       | 2.2                |     |     |  |  |  |
|                                                           |           |                   | MAXIMUM            |          | 8.6        | 9.4       | 33                                  | 0.00010    | 1.3        | 0.0003                   | 0.002     | < 0.00002  | 0.0001     | 13         | 0.00010    | 0.0002                | < 0.0005   | 0.001              | 0.04       | 4.5                |     |     |  |  |  |
|                                                           |           |                   | MEDIAN             |          | 7.5        | 8.5       | 11                                  | nc         | 0.63       | 0.0003                   | 0.001     | nc         | nc         | 4.1        | 0.000003   | 0.0001                | nc         | 0.001              | 0.03       | 3.1                |     |     |  |  |  |
|                                                           |           |                   | AVERAGE            |          | 7.5        | 8.1       | 15                                  | nc         | 0.68       | 0.0003                   | 0.001     | nc         | nc         | 5.7        | 0.00003    | 0.0001                | nc         | 0.001              | 0.03       | 3.3                |     |     |  |  |  |
|                                                           |           |                   | STANDARD DEVIATION |          | 1.1        | nc        | 16                                  | nc         | 0.56       | 0.0001                   | 0.000     | nc         | nc         | 6.3        | 0.00005    | 0.0001                | nc         | 0.0002             | 0.01       | 1.2                |     |     |  |  |  |
|                                                           |           |                   | 75TH PERCENTILE    |          | 8.0        | nc        | 22                                  | nc         | 0.95       | 0.0003                   | 0.001     | nc         | nc         | 8.3        | 0.00005    | 0.0001                | nc         | 0.001              | 0.03       | 3.8                |     |     |  |  |  |
| R07                                                       | R7-01     | mafic volcanic    | 546584             | 6979643  | 6.2        | 9.7       | 8.0                                 | 0.00007    | 1.8        | 0.0005                   | 0.001     | < 0.00002  | < 0.00001  | 2.0        | < 0.000003 | 0.0001                | 0.0007     | 0.010              | 0.15       | 0.59               |     |     |  |  |  |
| R07                                                       | R7-02     | mafic volcanic    | 546610             | 6979610  | 6.4        | 9.4       | 39                                  | 0.00003    | 0.72       | < 0.0002                 | 0.002     | < 0.00002  | < 0.00001  | 12         | < 0.000003 | 0.0002                | < 0.0005   | 0.004              | 0.07       | 1.3                |     |     |  |  |  |
| R07                                                       | R7-03     | mafic volcanic    | 546587             | 6979631  | 6.8        | 9.6       | 8.5                                 | 0.00003    | 1.3        | 0.0008                   | 0.002     | < 0.00002  | < 0.00001  | 2.4        | < 0.000003 | 0.0003                | 0.0006     | 0.018              | 0.18       | 3.8                |     |     |  |  |  |
| R07                                                       | R7-04     | mafic volcanic    | 546562             | 6979644  | 8.8        | 10.0      | 17                                  | 0.00002    | 1.1        | < 0.0002                 | 0.002     | < 0.00002  | < 0.00001  | 6.0        | < 0.000003 | 0.0000                | < 0.0005   | 0.003              | 0.06       | 0.72               |     |     |  |  |  |
| R07                                                       | R7-05     | mafic volcanic    | 546550             | 6979653  | 7.6        | 9.6       | 15                                  | 0.00003    | 1.0        | < 0.0002                 | 0.002     | < 0.00002  | < 0.00001  | 4.6        | < 0.000003 | 0.0002                | < 0.0005   | 0.007              | 0.11       | 1.5                |     |     |  |  |  |
|                                                           |           |                   | MINIMUM            |          | 6.2        | 9.4       | 8.0                                 | 0.00002    | 0.72       | < 0.0002                 | 0.001     | < 0.00002  | < 0.00001  | 2.0        | < 0.000003 | 0.00005               | < 0.0005   | 0.003              | 0.06       | 0.59               |     |     |  |  |  |
|                                                           |           |                   | MAXIMUM            |          | 8.8        | 10.0      | 39                                  | 0.00007    | 1.8        | 0.0008                   | 0.002     | < 0.00002  | < 0.00001  | 12         | < 0.000003 | 0.0003                | 0.0007     | 0.018              | 0.18       | 3.8                |     |     |  |  |  |
|                                                           |           |                   | MEDIAN             |          | 6.8        | 9.6       | 15                                  | 0.00003    | 1.1        | 0.0002                   | 0.002     | nc         | nc         | 4.6        | nc         | 0.0002                | nc         | 0.007              | 0.11       | 1.3                |     |     |  |  |  |
|                                                           |           |                   | AVERAGE            |          | 7.1        | 9.6       | 17                                  | 0.00004    | 1.2        | 0.0004                   | 0.002     | nc         | nc         | 5.3        | nc         | 0.0002                | nc         | 0.008              | 0.12       | 1.6                |     |     |  |  |  |
|                                                           |           |                   | STANDARD DEVIATION |          | 1.1        | nc        | 12                                  | 0.00002    | 0.38       | 0.0003                   | 0.001     | nc         | nc         | 3.9        | nc         | 0.0001                | nc         | 0.006              | 0.05       | 1.3                |     |     |  |  |  |
|                                                           |           |                   | 75TH PERCENTILE    |          | 7.6        | nc        | 17                                  | 0.00003    | 1.3        | 0.0005                   | 0.002     | nc         | nc         | 6.0        | nc         | 0.0002                | nc         | 0.010              | 0.15       | 1.5                |     |     |  |  |  |
| R09                                                       | R9-01     | mafic volcanic    | 547866             | 6977635  | 6.4        | 9.0       | 28                                  | 0.00005    | 0.48       | 0.002                    | 0.003     | 0.0000     | < 0.00001  | 7.9        | < 0.000003 | 0.0003                | < 0.0005   | 0.023              | 0.15       | 1.9                |     |     |  |  |  |
| R09                                                       | R9-02     | mafic volcanic    | 547897             | 6977622  | 6.9        | 9.5       | 20                                  | 0.00002    | 0.90       | 0.001                    | 0.003     | < 0.00001  | < 0.00001  | 6.0        | < 0.000003 | 0.0002                | < 0.0005   | 0.007              | 0.07       | 4.9                |     |     |  |  |  |
| R09                                                       | R9-03     | mafic volcanic    | 547935             | 6977644  | 7.4        | 9.5       | 13                                  | 0.00005    | 1.1        | < 0.0002                 | 0.001     | < 0.00002  | < 0.00001  | 3.5        | 0.00018    | 0.0002                | 0.0011     | 0.050              | 0.13       | 2.8                |     |     |  |  |  |
|                                                           |           |                   | MINIMUM            |          | 6.4        | 9.0       | 13                                  | 0.00002    | 0.48       | < 0.0002                 | 0.001     | < 0.00002  | < 0.00001  | 3.5        | < 0.000003 | 0.0002                | < 0.0005   | 0.007              | 0.07       | 1.9                |     |     |  |  |  |
|                                                           |           |                   | MAXIMUM            |          | 7.4        | 9.5       | 28                                  | 0.00005    | 1.1        | 0.0018                   | 0.003     | 0.0001     | < 0.00001  | 7.9        | 0.00018    | 0.0003                | < 0.0005   | 0.050              | 0.15       | 4.9                |     |     |  |  |  |
|                                                           |           |                   | MEDIAN             |          | 6.9        | 9.5       | 20                                  | 0.00005    | 0.90       | 0.0005                   | 0.003     | nc         | nc         | 6.0        | nc         | 0.0002                | nc         | 0.023              | 0.13       | 2.8                |     |     |  |  |  |
|                                                           |           |                   | AVERAGE            |          | 6.9        | 9.3       | 20                                  | 0.00004    | 0.83       | 0.0008                   | 0.002     | nc         | nc         | 5.8        | nc         | 0.0002                | nc         | 0.027              | 0.11       | 3.2                |     |     |  |  |  |
|                                                           |           |                   | STANDARD DEVIATION |          | 0.48       | nc        | 7.5                                 | 0.00002    | 0.32       | 0.0009                   | 0.001     | nc         | nc         | 2.2        | nc         | 0.0001                | nc         | 0.022              | 0.04       | 1.5                |     |     |  |  |  |
|                                                           |           |                   | 75TH PERCENTILE    |          | 7.1        | nc        | 24                                  | 0.00005    | 1.0        | 0.0012                   | 0.003     | nc         | nc         | 6.9        | nc         | 0.0003                | nc         | 0.036              | 0.14       | 3.9                |     |     |  |  |  |
| R11                                                       | R11-01    | granite           | 547837             | 6975947  | 9.3        | 9.5       | 14                                  | < 0.00001  | 0.53       | 0.0003                   | 0.001     | < 0.00002  | < 0.00001  | 5.2        | < 0.000003 | 0.0000                | < 0.0005   | 0.003              | 0.02       | 4.3                |     |     |  |  |  |
| R11                                                       | R11-02    | granite           | 547954             | 6976003  | 9.5        | 9.5       | 15                                  | 0.00001    | 1.4        | 0.0003                   | 0.001     | < 0.00002  | < 0.00001  | 5.7        | < 0.000003 | 0.00003               | < 0.0005   | 0.003              | 0.02       | 5.1                |     |     |  |  |  |
| R11                                                       | R11-03    | granite           | 547844             | 6976078  | 9.1        | 9.2       | 15                                  | 0.00002    | 1.2        | 0.0005                   | 0.002     | < 0.00002  | <          |            |            |                       |            |                    |            |                    |     |     |  |  |  |

Appendix A.3  
SFE Leachate Results - Rock Quarry Material for Road Construction  
Meliadine Project, Nunavut  
Agnico-Eagle Mines Ltd

| CCME (CEQG) (freshwater aquatic life) <sup>1</sup> (mg/L) |           |                   |         |          |                    |         |         |           | 0.073     |          |           |           | 0.025 <sup>4</sup> | 0.001 <sup>4</sup> |           |         | 0.001     |            |            |           |          |          |         | 0.03 |
|-----------------------------------------------------------|-----------|-------------------|---------|----------|--------------------|---------|---------|-----------|-----------|----------|-----------|-----------|--------------------|--------------------|-----------|---------|-----------|------------|------------|-----------|----------|----------|---------|------|
| Metal Mine Effluent Regulation (MMER) <sup>2</sup> (mg/L) |           |                   |         |          |                    |         |         |           |           | 0.5      | 0.2       |           |                    |                    |           |         |           |            |            |           |          |          |         | 0.5  |
| PROPOSED LOCATION                                         | SAMPLE ID | SAMPLE TYPE       | EASTING | NORTHING | Li mg/L            | Mg mg/L | Mn mg/L | Mo mg/L   | Na mg/L   | Ni mg/L  | Pb mg/L   | Sb mg/L   | Se mg/L            | Sn mg/L            | Sr mg/L   | Ti mg/L | Tl mg/L   | U mg/L     | V mg/L     | W mg/L    | Y mg/L   | Zn mg/L  |         |      |
| Itivia                                                    | Itivia-01 | crushed aggregate | 0       | 0        | < 0.001            | 0.76    | 0.001   | 0.0001    | 3.1       | 0.0003   | < 0.00002 | 0.0003    | < 0.001            | < 0.00001          | 0.01      | 0.002   | < 0.00002 | 0.000002   | 0.03       | 0.0001    | 0.000006 | < 0.001  |         |      |
| Itivia                                                    | Itivia-02 | crushed aggregate | 0       | 0        | < 0.001            | 2.8     | 0.0003  | 0.0003    | 28        | 0.0003   | < 0.00002 | 0.0004    | < 0.001            | < 0.00001          | 0.03      | 0.0003  | < 0.00002 | < 0.000001 | 0.02       | 0.00004   | 0.000001 | < 0.001  |         |      |
| Itivia                                                    | Itivia-03 | crushed aggregate | 0       | 0        | < 0.001            | 0.99    | 0.0003  | 0.0007    | 14        | 0.0002   | < 0.00002 | 0.0004    | < 0.001            | < 0.00001          | 0.01      | 0.0004  | < 0.00002 | 0.000001   | 0.02       | 0.00001   | 0.000002 | 0.001    |         |      |
| Itivia                                                    | Itivia-04 | crushed aggregate | 0       | 0        | < 0.001            | 0.68    | 0.001   | 0.0001    | 2.7       | 0.0002   | < 0.00002 | 0.0003    | < 0.001            | < 0.00001          | 0.01      | 0.0001  | < 0.00002 | 0.000002   | 0.03       | 0.0001    | 0.000004 | < 0.001  |         |      |
|                                                           |           |                   |         |          | MINIMUM            | < 0.001 | 0.68    | 0.00027   | 0.0001    | 2.7      | 0.0002    | < 0.00002 | 0.0003             | < 0.001            | < 0.00001 | 0.01    | 0.0003    | < 0.00002  | < 0.000001 | 0.02      | 0.00004  | 0.000001 | < 0.001 |      |
|                                                           |           |                   |         |          | MAXIMUM            | < 0.001 | 2.8     | 0.001     | 0.0007    | 28       | 0.0003    | < 0.00002 | 0.0004             | < 0.001            | < 0.00001 | 0.03    | 0.002     | < 0.00002  | 0.000002   | 0.03      | 0.0001   | 0.000006 | 0.001   |      |
|                                                           |           |                   |         |          | MEDIAN             | nc      | 0.87    | 0.00048   | 0.0002    | 8.6      | 0.0003    | nc        | 0.0004             | nc                 | nc        | 0.01    | 0.001     | nc         | nc         | 0.02      | 0.0001   | 0.000003 | nc      |      |
|                                                           |           |                   |         |          | AVERAGE            | nc      | 1.3     | 0.001     | 0.0003    | 12       | 0.0003    | nc        | 0.0004             | nc                 | nc        | 0.02    | 0.001     | nc         | nc         | 0.02      | 0.0001   | 0.000003 | nc      |      |
|                                                           |           |                   |         |          | STANDARD DEVIATION | nc      | 0.99    | 0.00030   | 0.0003    | 12       | 0.0001    | nc        | 0.0001             | nc                 | nc        | 0.01    | 0.001     | nc         | nc         | 0.006     | 0.0000   | 0.000002 | nc      |      |
|                                                           |           |                   |         |          | 75TH PERCENTILE    | nc      | 1.4     | 0.001     | 0.0004    | 18       | 0.0003    | nc        | 0.0004             | nc                 | nc        | 0.02    | 0.001     | nc         | nc         | 0.03      | 0.0001   | 0.000005 | nc      |      |
| R01                                                       | R1-01     | meta-sedimentary  | 539573  | 6989375  | < 0.001            | 0.56    | 0.002   | 0.0004    | 4.1       | 0.0011   | 0.00004   | < 0.0002  | < 0.001            | < 0.00001          | 0.03      | 0.001   | < 0.00002 | 0.0001     | 0.003      | < 0.00003 | 0.00002  | < 0.001  |         |      |
| R01                                                       | R1-02     | meta-sedimentary  | 539592  | 6989350  | < 0.001            | 1.6     | 0.005   | 0.0008    | 6.0       | 0.0043   | 0.00023   | 0.0003    | < 0.001            | < 0.00001          | 0.03      | 0.004   | < 0.00002 | 0.0005     | 0.003      | 0.0001    | 0.00007  | 0.002    |         |      |
| R01                                                       | R1-03     | meta-sedimentary  | 539605  | 6989321  | < 0.001            | 1.6     | 0.004   | 0.0020    | 3.5       | 0.0048   | 0.00026   | 0.0004    | < 0.001            | < 0.00001          | 0.02      | 0.002   | < 0.00002 | 0.0001     | 0.002      | 0.0002    | 0.00009  | 0.002    |         |      |
|                                                           |           |                   |         |          | MINIMUM            | < 0.001 | 0.56    | 0.002     | 0.0004    | 3.5      | 0.0011    | 0.00004   | < 0.0002           | < 0.001            | < 0.00001 | 0.02    | 0.001     | < 0.00002  | 0.0001     | 0.002     | 0.0000   | 0.00002  | < 0.001 |      |
|                                                           |           |                   |         |          | MAXIMUM            | < 0.001 | 1.6     | 0.005     | 0.0020    | 6.0      | 0.0048    | 0.00026   | 0.0004             | < 0.001            | < 0.00001 | 0.03    | 0.004     | < 0.00002  | 0.0005     | 0.003     | 0.0002   | 0.00009  | 0.002   |      |
|                                                           |           |                   |         |          | MEDIAN             | nc      | 1.6     | 0.004     | 0.0008    | 4.1      | 0.0043    | 0.00023   | nc                 | nc                 | nc        | 0.03    | 0.002     | nc         | 0.0001     | 0.003     | nc       | 0.00007  | nc      |      |
|                                                           |           |                   |         |          | AVERAGE            | nc      | 1.2     | 0.004     | 0.0010    | 4.5      | 0.0034    | 0.00018   | nc                 | nc                 | nc        | 0.03    | 0.002     | nc         | 0.0003     | 0.003     | nc       | 0.00006  | nc      |      |
|                                                           |           |                   |         |          | STANDARD DEVIATION | nc      | 0.60    | 0.002     | 0.0009    | 1.3      | 0.0020    | 0.00012   | nc                 | nc                 | nc        | 0.01    | 0.002     | nc         | 0.0002     | 0.000     | nc       | 0.00004  | nc      |      |
|                                                           |           |                   |         |          | 75TH PERCENTILE    | nc      | 1.6     | 0.005     | 0.0014    | 5.0      | 0.0046    | 0.00025   | nc                 | nc                 | nc        | 0.03    | 0.003     | nc         | 0.0003     | 0.003     | nc       | 0.00008  | nc      |      |
| R02                                                       | R2-01     | mafic volcanic    | 543587  | 6983658  | < 0.001            | 0.46    | 0.00033 | 0.0003    | 3.1       | 0.0002   | < 0.00002 | 0.0002    | < 0.001            | < 0.00001          | 0.02      | 0.000   | < 0.00002 | 0.00004    | 0.009      | 0.0002    | 0.000005 | 0.001    |         |      |
| R02                                                       | R2-02     | mafic volcanic    | 543507  | 6983688  | < 0.001            | 0.92    | 0.001   | 0.0002    | 4.2       | 0.0003   | 0.00002   | < 0.0002  | < 0.001            | < 0.00001          | 0.01      | 0.002   | < 0.00002 | 0.00004    | 0.01       | 0.0001    | 0.00002  | < 0.001  |         |      |
| R02                                                       | R2-03     | mafic volcanic    | 543543  | 6983716  | < 0.001            | 0.53    | 0.001   | 0.0003    | 4.5       | 0.0003   | 0.00002   | < 0.0002  | < 0.001            | < 0.00001          | 0.01      | 0.002   | < 0.00002 | 0.00005    | 0.02       | 0.0001    | 0.00003  | < 0.001  |         |      |
|                                                           |           |                   |         |          | MINIMUM            | < 0.001 | 0.46    | 0.00033   | 0.0002    | 3.1      | 0.0002    | < 0.00002 | < 0.0002           | < 0.001            | < 0.00001 | 0.01    | 0.000     | < 0.00002  | 0.00004    | 0.009     | 0.0001   | 0.000005 | < 0.001 |      |
|                                                           |           |                   |         |          | MAXIMUM            | < 0.001 | 0.92    | 0.001     | 0.0003    | 4.5      | 0.0003    | 0.00002   | < 0.0002           | < 0.001            | < 0.00001 | 0.02    | 0.002     | < 0.00002  | 0.00005    | 0.02      | 0.0002   | 0.00003  | 0.001   |      |
|                                                           |           |                   |         |          | MEDIAN             | nc      | 0.53    | 0.001     | 0.0003    | 4.2      | 0.0003    | nc        | nc                 | nc                 | nc        | 0.01    | 0.002     | nc         | 0.0004     | 0.01      | 0.0001   | 0.00002  | nc      |      |
|                                                           |           |                   |         |          | AVERAGE            | nc      | 0.64    | 0.001     | 0.0002    | 3.9      | 0.0003    | nc        | nc                 | nc                 | nc        | 0.01    | 0.002     | nc         | 0.0004     | 0.01      | 0.0001   | 0.00002  | nc      |      |
|                                                           |           |                   |         |          | STANDARD DEVIATION | nc      | 0.25    | 0.00049   | 0.00005   | 0.73     | 0.0001    | nc        | nc                 | nc                 | nc        | 0.01    | 0.001     | nc         | 0.0001     | 0.005     | 0.0001   | 0.00001  | nc      |      |
|                                                           |           |                   |         |          | 75TH PERCENTILE    | nc      | 0.73    | 0.001     | 0.0003    | 4.3      | 0.0003    | nc        | nc                 | nc                 | nc        | 0.02    | 0.002     | nc         | 0.0005     | 0.02      | 0.0002   | 0.00002  | nc      |      |
| R05                                                       | R5-01     | granite           | 544805  | 6981409  | < 0.001            | 0.06    | 0.001   | < 0.00001 | 6.1       | < 0.0001 | 0.00003   | < 0.0002  | < 0.001            | < 0.00001          | 0.002     | 0.003   | < 0.00002 | 0.00003    | 0.002      | 0.0002    | 0.00005  | < 0.001  |         |      |
| R05                                                       | R5-02     | granite           | 544828  | 6981425  | 0.001              | 0.19    | 0.002   | 0.00004   | 6.5       | 0.0002   | 0.00006   | < 0.0002  | < 0.001            | < 0.00001          | 0.01      | 0.003   | < 0.00002 | 0.00001    | 0.002      | 0.0001    | 0.00004  | < 0.001  |         |      |
| R05                                                       | R5-03     | granite           | 544853  | 6981412  | 0.001              | 0.44    | 0.048   | 0.0003    | 7.0       | 0.0004   | 0.00020   | < 0.0002  | < 0.001            | < 0.00001          | 0.07      | 0.002   | 0.00009   | 0.00001    | 0.001      | 0.0003    | 0.00010  | < 0.001  |         |      |
|                                                           |           |                   |         |          | MINIMUM            | < 0.001 | 0.06    | 0.001     | < 0.00001 | 6.1      | < 0.0001  | 0.00003   | < 0.0002           | < 0.001            | < 0.00001 | 0.002   | 0.002     | 0.00002    | 0.00003    | 0.001     | 0.0001   | 0.00004  | < 0.001 |      |
|                                                           |           |                   |         |          | MAXIMUM            | 0.001   | 0.44    | 0.05      | 0.0003    | 7.0      | 0.0004    | 0.00020   | < 0.0002           | < 0.001            | 0.0001    | 0.07    | 0.003     | 0.00009    | 0.0001     | 0.002     | 0.0003   | 0.00010  | < 0.001 |      |
|                                                           |           |                   |         |          | MEDIAN             | nc      | 0.19    | 0.002     | 0.00004   | 6.5      | 0.0002    | 0.00006   | nc                 | nc                 | nc        | 0.01    | 0.003     | nc         | 0.0001     | 0.002     | 0.0002   | 0.00005  | nc      |      |
|                                                           |           |                   |         |          | AVERAGE            | nc      | 0.23    | 0.02      | 0.0001    | 6.5      | 0.0002    | 0.00010   | nc                 | nc                 | nc        | 0.03    | 0.003     | nc         | 0.0001     | 0.002     | 0.0002   | 0.00006  | nc      |      |
|                                                           |           |                   |         |          | STANDARD DEVIATION | nc      | 0.19    | 0.03      | 0.0002    | 0.45     | 0.0002    | 0.00009   | nc                 | nc                 | nc        | 0.04    | 0.000     | nc         | 0.00007    | 0.000     | 0.0001   | 0.00003  | nc      |      |
|                                                           |           |                   |         |          | 75TH PERCENTILE    | nc      | 0.31    | 0.02      | 0.0002    | 6.8      | 0.0003    | 0.00013   | nc                 | nc                 | nc        | 0.04    | 0.003     | nc         | 0.0001     | 0.002     | 0.0003   | 0.00008  | nc      |      |
| R07                                                       | R7-01     | mafic volcanic    | 546584  | 6979643  | < 0.001            | 0.76    | 0.002   | 0.0004    | 3.5       | 0.0008   | 0.00004   | < 0.0002  | < 0.001            | < 0.00001          | 0.003     | 0.005   | < 0.00002 | 0.00007    | 0.02       | 0.0006    | 0.00010  | < 0.001  |         |      |
| R07                                                       | R7-02     | mafic volcanic    | 546610  | 6979610  | < 0.001            | 2.3     | 0.003   | 0.0001    | 3.2       | 0.0044   | < 0.00002 | < 0.0002  | < 0.001            | < 0.00001          | 0.04      | 0.003   | < 0.00002 | 0.00002    | 0.01       | 0.0010    | 0.00003  | 0.002    |         |      |
| R07                                                       | R7-03     | mafic volcanic    | 546587  | 6979631  | < 0.001            | 0.62    | 0.003   | 0.0002    | 4.0       | 0.0021   | 0.00005   | < 0.0002  | < 0.001            | < 0.00001          | 0.005     | 0.006   | < 0.00002 | 0.00009    | 0.02       | 0.0006    | 0.00011  | 0.002    |         |      |
| R07                                                       | R7-04     | mafic volcanic    | 546562  | 6979644  | 0.002              | 0.57    | 0.001   | 0.00002   | 4.8       | 0.0002   | < 0.00002 | < 0.0002  | < 0.001            | < 0.00001          | 0.01      | 0.002   | < 0.00002 | 0.00001    | 0.03       | 0.0004    | 0.00002  | < 0.001  |         |      |
| R07                                                       | R7-05     | mafic volcanic    | 546550  | 6979653  | < 0.001            | 0.77    | 0.002   | 0.0003    | 3.7       | 0.0010   | 0.00003   | < 0.0002  | < 0.001            | < 0.00001          | 0.01      | 0.003   | < 0.00002 | 0.00001    | 0.02       | 0.0004    | 0.00008  | < 0.001  |         |      |
|                                                           |           |                   |         |          | MINIMUM            | < 0.001 | 0.57    | 0.001     | 0.00002   | 3.2      | 0.0002    | < 0.00002 | < 0.0002           | < 0.001            | < 0.00001 | 0.003   | 0.002     | < 0.00002  | 0.00007    | 0.01      | 0.0004   | 0.00002  | < 0.001 |      |
|                                                           |           |                   |         |          | MAXIMUM            | 0.002   | 2.27    | 0.003     | 0.0004    | 4.8      | 0.0044    | 0.00005   | < 0.0002           | < 0.001            | < 0.00001 | 0.04    | 0.006     | < 0.00002  | 0.0002     | 0.03      | 0.0010   | 0.00011  | 0.002   |      |
|                                                           |           |                   |         |          | MEDIAN             | nc      | 0.76    | 0.002     | 0.0002    | 3.7      | 0.0010    | nc        | nc                 | nc                 | 0.00      | 0.01    | 0.003     | nc         | 0.0001     | 0.02      | 0.0006   | 0.00008  | nc      |      |
|                                                           |           |                   |         |          | AVERAGE            | nc      | 0.99    | 0.002     | 0.0002    | 3.8      | 0.0017    | nc        | nc                 | nc                 | 0.00      | 0.01    | 0.004     | nc         | 0.0001     | 0.02      | 0.0006   | 0.00007  | nc      |      |
|                                                           |           |                   |         |          | STANDARD DEVIATION | nc      | 0.72    | 0.001     | 0.0002    | 0.64     | 0.0017    | nc        | nc                 | nc                 | 0.00      | 0.01    | 0.002     | nc         | 0.00005    | 0.007     | 0.0003   | 0.00004  | nc      |      |
|                                                           |           |                   |         |          | 75TH PERCENTILE    | nc      | 0.77    | 0.003     | 0.0003    | 4.0      | 0.0021    | nc        | nc                 | nc                 | 0.00      | 0.01    | 0.005     | nc         | 0.0001     | 0.02      | 0.0006   | 0.00010  | nc      |      |
| R09                                                       | R9-01     | mafic volcanic    | 547866  | 6977635  | < 0.001            | 2.0     | 0.003   | 0.0011    | 3.9       | 0.0024   | 0.00003   | < 0.0002  | < 0.001            | < 0.00001          | 0.01      | 0.005   | < 0.00002 | 0.00008    | 0.004      | 0.0021    | 0.00004  | < 0.001  |         |      |
| R09                                                       | R9-02     | mafic volcanic    | 547897  | 6977622  | 0.001              | 1.2     | 0.002   | 0.0022    | 3.0       | 0.0021   | 0.00003   | < 0.0002  | < 0.001            | < 0.00001          | 0.01      | 0.003   | < 0.00002 | 0.00001    | 0.01       | 0.0758    | 0.00003  | 0.001    |         |      |
| R09                                                       | R9-03     | mafic volcanic    | 547935  | 6977644  | 0.002              | 1.1     | 0.003   | 0.0010    | 4.3       | 0.0037   | 0.00029   | 0.0004    | < 0.001            | 0.0000             |           |         |           |            |            |           |          |          |         |      |

Appendix A.3  
SFE Leachate Results - Rock Quarry Material for Road Construction  
Meliadine Project, Nunavut  
Agnico-Eagle Mines Ltd

| CCME (CEQG) (freshwater aquatic life) <sup>1</sup> (mg/L) |           |                |         |          | 6.5 - 9.0          |          | 0.0001                           | 0.005 - 0.1 <sup>4</sup> | 0.005     |          |          |           | 0.000017 <sup>4</sup> | 0.001 <sup>5</sup> | 0.002 <sup>4</sup> | 0.3       |          |          |          |        |      |
|-----------------------------------------------------------|-----------|----------------|---------|----------|--------------------|----------|----------------------------------|--------------------------|-----------|----------|----------|-----------|-----------------------|--------------------|--------------------|-----------|----------|----------|----------|--------|------|
| Metal Mine Effluent Regulation (MMER) <sup>2</sup> (mg/L) |           |                |         |          | 6.0 - 9.5          |          |                                  |                          | 0.5       |          |          |           |                       |                    | 0.3                |           |          |          |          |        |      |
| PROPOSED LOCATION                                         | SAMPLE ID | SAMPLE TYPE    | EASTING | NORTHING | Initial pH         | Final pH | Hardness mg CaCO <sub>3</sub> /L | Ag mg/L                  | Al mg/L   | As mg/L  | B mg/L   | Be mg/L   | Bi mg/L               | Ca mg/L            | Cd mg/L            | Co mg/L   | Cr mg/L  | Cu mg/L  | Fe mg/L  | K mg/L |      |
| R14                                                       | R14-01    | mafic volcanic | 547044  | 6974196  | 6.2                | 7.3      | 45                               | 0.00001                  | 0.16      | 0.0010   | 0.002    | < 0.00002 | < 0.00001             | 14                 | 0.00001            | 0.001     | < 0.0005 | 0.006    | 0.19     | 16.5   |      |
| R14                                                       | R14-02    | mafic volcanic | 547011  | 6974197  | 7.4                | 9.2      | 16                               | 0.00004                  | 0.99      | 0.0015   | 0.001    | < 0.00002 | < 0.00001             | 4.7                | 0.00001            | 0.0002    | < 0.0005 | 0.040    | 0.30     | 6.5    |      |
| R14                                                       | R14-03    | mafic volcanic | 546989  | 6974173  | 5.3                | 5.9      | 23                               | 0.00002                  | 0.04      | 0.0003   | 0.008    | < 0.00002 | < 0.00001             | 7.9                | 0.00001            | 0.006     | < 0.0005 | 0.002    | 0.06     | 6.2    |      |
| R14                                                       | R14-04    | mafic volcanic | 546930  | 6974216  | 9.6                | 9.7      | 16                               | 0.00003                  | 1.0       | 0.0003   | 0.002    | < 0.00002 | < 0.00001             | 5.6                | < 0.00003          | 0.0001    | < 0.0005 | 0.006    | 0.09     | 7.4    |      |
| R14                                                       | R14-05    | mafic volcanic | 546872  | 6974220  | 7.3                | 9.5      | 10                               | 0.00003                  | 1.2       | < 0.0002 | < 0.0002 | < 0.00002 | 0.0001                | 2.9                | 0.00001            | 0.0002    | < 0.0005 | 0.017    | 0.18     | 3.4    |      |
|                                                           |           |                |         |          | MINIMUM            | 5.3      | 5.9                              | 10                       | 0.00001   | 0.04     | < 0.0002 | 0.000     | < 0.00002             | < 0.00001          | 2.9                | < 0.00003 | 0.0001   | < 0.0005 | 0.002    | 0.06   | 3.4  |
|                                                           |           |                |         |          | MAXIMUM            | 9.6      | 9.7                              | 45                       | 0.00004   | 1.2      | 0.0015   | 0.008     | < 0.00002             | 0.0001             | 14                 | 0.00001   | 0.006    | < 0.0005 | 0.040    | 0.30   | 16.5 |
|                                                           |           |                |         |          | MEDIAN             | 7.3      | 9.2                              | 16                       | 0.00003   | 1.0      | 0.0003   | 0.002     | nc                    | nc                 | 5.6                | 0.00001   | 0.000    | nc       | 0.006    | 0.18   | 6.5  |
|                                                           |           |                |         |          | AVERAGE            | 7.2      | 6.6                              | 22                       | 0.00003   | 0.67     | 0.0007   | 0.003     | nc                    | nc                 | 7.0                | 0.00001   | 0.002    | nc       | 0.014    | 0.17   | 8.0  |
|                                                           |           |                |         |          | STANDARD DEVIATION | 1.6      | nc                               | 14                       | 0.00001   | 0.53     | 0.0006   | 0.003     | nc                    | nc                 | 4.3                | 0.00000   | 0.003    | nc       | 0.015    | 0.09   | 5.0  |
|                                                           |           |                |         |          | 75TH PERCENTILE    | 7.4      | nc                               | 23                       | 0.00003   | 1.0      | 0.0010   | 0.002     | nc                    | nc                 | 7.9                | 0.00001   | 0.001    | nc       | 0.017    | 0.19   | 7.4  |
| R16                                                       | R16-01    | gabbro         | 548413  | 6970737  | 9.8                | 9.7      | 16                               | < 0.00001                | 0.57      | 0.016    | 0.004    | < 0.00002 | < 0.00001             | 5.6                | < 0.00003          | 0.0001    | < 0.0005 | 0.003    | 0.01     | 9.9    |      |
| R16                                                       | R16-02    | gabbro         | 548272  | 6970758  | 9.6                | 9.6      | 24                               | 0.00003                  | 0.39      | 0.007    | 0.004    | < 0.00002 | < 0.00001             | 7.8                | < 0.00003          | 0.0002    | < 0.0005 | 0.004    | 0.04     | 8.0    |      |
| R16                                                       | R16-03    | gabbro         | 548147  | 6970767  | 9.5                | 9.5      | 30                               | 0.00002                  | 0.44      | 0.007    | 0.002    | < 0.00002 | 0.0001                | 9.0                | 0.00003            | 0.0004    | 0.0006   | 0.010    | 0.10     | 11.6   |      |
| R16                                                       | R16-04    | gabbro         | 547959  | 6970827  | 9.4                | 9.5      | 33                               | 0.00003                  | 0.35      | 0.003    | 0.005    | < 0.00002 | < 0.00001             | 9.7                | < 0.00003          | 0.0006    | < 0.0005 | 0.009    | 0.11     | 7.2    |      |
| R16                                                       | R16-05    | gabbro         | 547736  | 6970852  | 9.3                | 9.0      | 24                               | 0.00001                  | 0.68      | 0.043    | 0.008    | < 0.00002 | < 0.00001             | 7.1                | < 0.00003          | 0.0002    | < 0.0005 | 0.013    | 0.05     | 5.7    |      |
| R16                                                       | R16-06    | gabbro         | 547495  | 6970904  | 9.8                | 9.9      | 14                               | < 0.00001                | 0.48      | 0.002    | 0.003    | < 0.00002 | < 0.00001             | 5.1                | < 0.00003          | 0.0000    | < 0.0005 | 0.002    | 0.02     | 9.3    |      |
| R16                                                       | R16-07    | gabbro         | 547282  | 6970908  | 9.8                | 9.9      | 18                               | < 0.00001                | 0.63      | 0.002    | 0.003    | < 0.00002 | < 0.00001             | 6.3                | < 0.00003          | 0.0000    | < 0.0005 | 0.001    | 0.04     | 3.6    |      |
| R16                                                       | R16-08    | gabbro         | 547014  | 6971068  | 9.2                | 9.6      | 11                               | 0.00001                  | 0.86      | 0.004    | 0.003    | < 0.00002 | < 0.00001             | 3.3                | < 0.00003          | 0.0002    | < 0.0005 | 0.012    | 0.11     | 11.9   |      |
| R16                                                       | R16-09    | gabbro         | 546915  | 6971079  | 8.5                | 9.3      | 10                               | 0.00001                  | 0.72      | 0.004    | 0.001    | < 0.00002 | < 0.00001             | 2.0                | 0.00001            | 0.0003    | 0.0007   | 0.053    | 0.20     | 10.8   |      |
|                                                           |           |                |         |          | MINIMUM            | 8.5      | 9.0                              | 10                       | < 0.00001 | 0.35     | 0.002    | 0.001     | < 0.00002             | 0.0000             | 2.0                | < 0.00003 | 0.0000   | < 0.0005 | 0.001    | 0.01   | 3.6  |
|                                                           |           |                |         |          | MAXIMUM            | 9.8      | 9.9                              | 33                       | 0.00003   | 0.86     | 0.04     | 0.008     | < 0.00002             | 0.0001             | 9.7                | < 0.00003 | 0.0006   | 0.0007   | 0.053    | 0.20   | 11.9 |
|                                                           |           |                |         |          | MEDIAN             | 9.5      | 9.6                              | 18                       | 0.00001   | 0.57     | 0.004    | 0.003     | nc                    | nc                 | 6.3                | nc        | 0.0002   | nc       | 0.009    | 0.05   | 9.3  |
|                                                           |           |                |         |          | AVERAGE            | 9.4      | 9.5                              | 20                       | 0.00002   | 0.57     | 0.01     | 0.004     | nc                    | nc                 | 6.2                | nc        | 0.0002   | nc       | 0.012    | 0.07   | 8.7  |
|                                                           |           |                |         |          | STANDARD DEVIATION | 0.42     | nc                               | 8.1                      | 0.00001   | 0.17     | 0.01     | 0.002     | nc                    | nc                 | 2.5                | nc        | 0.0002   | nc       | 0.016    | 0.06   | 2.8  |
|                                                           |           |                |         |          | 75TH PERCENTILE    | 9.8      | nc                               | 24                       | 0.00002   | 0.68     | 0.007    | 0.004     | nc                    | nc                 | 7.8                | nc        | 0.0003   | nc       | 0.012    | 0.11   | 10.8 |
| R17                                                       | R17-01    | mafic volcanic | 545082  | 6971576  | 6.1                | 7.2      | 15                               | < 0.00001                | < 0.01    | 0.001    | 0.006    | < 0.00002 | < 0.00001             | 2.2                | < 0.00003          | 0.0016    | < 0.0005 | < 0.0005 | 0.003    | 11.8   |      |
| R17                                                       | R17-02    | mafic volcanic | 545053  | 6971595  | 9.8                | 9.5      | 11                               | < 0.00001                | 1.1       | 0.007    | 0.004    | < 0.00002 | < 0.00001             | 4.0                | < 0.00003          | 0.00002   | < 0.0005 | < 0.0005 | 0.003    | 12.8   |      |
| R17                                                       | R17-03    | mafic volcanic | 545077  | 6971595  | 9.8                | 9.9      | 18                               | < 0.00001                | 0.58      | 0.015    | 0.004    | < 0.00002 | < 0.00001             | 6.0                | < 0.00003          | 0.00005   | < 0.0005 | 0.002    | 0.01     | 2.9    |      |
| R17                                                       | R17A-01   | mafic volcanic | 545480  | 6971560  | 9.7                | 9.7      | 19                               | 0.00001                  | 0.68      | 0.006    | 0.003    | < 0.00002 | < 0.00001             | 6.1                | 0.00004            | 0.0002    | 0.0006   | 0.004    | 0.23     | 4.7    |      |
|                                                           |           |                |         |          | MINIMUM            | 6.1      | 7.2                              | 11                       | < 0.00001 | 0.01     | 0.001    | 0.003     | < 0.00002             | < 0.00001          | 2.2                | < 0.00003 | 0.0000   | < 0.0005 | < 0.0005 | 0.003  | 2.9  |
|                                                           |           |                |         |          | MAXIMUM            | 9.8      | 9.9                              | 19                       | 0.00001   | 1.1      | 0.015    | 0.006     | < 0.00002             | < 0.00001          | 6.1                | 0.00004   | 0.0016   | 0.0006   | 0.004    | 0.23   | 12.8 |
|                                                           |           |                |         |          | MEDIAN             | 9.8      | 9.6                              | 16                       | nc        | 0.63     | 0.007    | 0.004     | nc                    | nc                 | 5.0                | nc        | 0.0001   | nc       | 0.001    | 0.01   | 8.3  |
|                                                           |           |                |         |          | AVERAGE            | 8.9      | 7.7                              | 16                       | nc        | 0.60     | 0.007    | 0.004     | nc                    | nc                 | 4.6                | nc        | 0.0005   | nc       | 0.002    | 0.06   | 8.1  |
|                                                           |           |                |         |          | STANDARD DEVIATION | 1.8      | nc                               | 3.1                      | nc        | 0.46     | 0.006    | 0.001     | nc                    | nc                 | 1.9                | nc        | 0.0008   | nc       | 0.001    | 0.11   | 5.0  |
|                                                           |           |                |         |          | 75TH PERCENTILE    | 9.8      | nc                               | 18                       | nc        | 0.79     | 0.009    | 0.005     | nc                    | nc                 | 6.0                | nc        | 0.0005   | nc       | 0.002    | 0.07   | 12.1 |
| R19                                                       | R19-01    | mafic volcanic | 543903  | 6970391  | 9.1                | 9.5      | 19                               | < 0.00001                | 0.89      | 0.001    | 0.020    | < 0.00002 | < 0.00001             | 4.7                | < 0.00003          | 0.0003    | 0.0008   | 0.006    | 0.40     | 5.3    |      |
| R19                                                       | R19-02    | mafic volcanic | 543930  | 6970376  | 9.8                | 9.7      | 18                               | < 0.00001                | 0.68      | 0.009    | 0.016    | < 0.00002 | < 0.00001             | 6.1                | < 0.00003          | 0.00003   | < 0.0005 | 0.001    | 0.01     | 2.8    |      |
| R19                                                       | R19-03    | mafic volcanic | 543954  | 6970360  | 9.5                | 9.6      | 21                               | 0.00002                  | 0.61      | 0.001    | 0.020    | < 0.00002 | < 0.00001             | 6.3                | < 0.00003          | 0.0001    | < 0.0005 | 0.004    | 0.07     | 4.29   |      |
|                                                           |           |                |         |          | MINIMUM            | 9.1      | 9.5                              | 18                       | < 0.00001 | 0.61     | 0.001    | 0.016     | < 0.00002             | < 0.00001          | 4.7                | < 0.00003 | 0.0000   | < 0.0005 | 0.001    | 0.01   | 2.8  |
|                                                           |           |                |         |          | MAXIMUM            | 9.8      | 9.7                              | 21                       | 0.00002   | 0.89     | 0.009    | 0.020     | < 0.00002             | < 0.00001          | 6.3                | < 0.00003 | 0.0003   | 0.0008   | 0.006    | 0.40   | 5.3  |
|                                                           |           |                |         |          | MEDIAN             | 9.5      | 9.6                              | 19                       | nc        | 0.68     | 0.001    | 0.020     | nc                    | nc                 | 6.1                | nc        | 0.0001   | nc       | 0.004    | 0.07   | 4.3  |
|                                                           |           |                |         |          | AVERAGE            | 9.5      | 9.6                              | 19                       | nc        | 0.73     | 0.003    | 0.019     | nc                    | nc                 | 5.7                | nc        | 0.0001   | nc       | 0.004    | 0.16   | 4.1  |
|                                                           |           |                |         |          | STANDARD DEVIATION | 0.32     | nc                               | 1.7                      | nc        | 0.15     | 0.005    | 0.002     | nc                    | nc                 | 0.88               | nc        | 0.0001   | nc       | 0.003    | 0.21   | 1.3  |
|                                                           |           |                |         |          | 75TH PERCENTILE    | 9.6      | nc                               | 20                       | nc        | 0.79     | 0.005    | 0.020     | nc                    | nc                 | 6.2                | nc        | 0.0002   | nc       | 0.005    | 0.24   | 4.8  |
| R82                                                       | R82-01    | mafic volcanic | 547421  | 6977137  | 5.7                | 8.4      | 6.6                              | 0.00013                  | 0.39      | 0.006    | 0.004    | < 0.00002 | 0.0001                | 1.3                | 0.00012            | 0.0003    | 0.0009   | 0.014    | 0.33     | 5.5    |      |
| R82                                                       | R82-02    | mafic volcanic | 547435  | 6977144  | 6.5                | 8.4      | 7.4                              | 0.00009                  | 0.52      | 0.001    | 0.002    | < 0.00002 | 0.0007                | 1.3                | 0.00007            | 0.0008    | 0.0007   | 0.019    | 0.39     | 4.9    |      |
| R82                                                       | R82-03    | mafic volcanic | 547451  | 6977153  | 7.7                | 9.5      | 8.0                              | 0.00005                  | 1.2       | 0.001    | 0.002    | < 0.00002 | < 0.00001             | 2.0                | 0.00001            | 0.0003    | < 0.0005 | 0.012    | 0.19     | 0.72   |      |
|                                                           |           |                |         |          | MINIMUM            | 5.7      | 8.4                              | 6.6                      | 0.00005   | 0.39     | 0.001    | 0.002     | < 0.00002             | 0.0000             | 1.3                | 0.00001   | 0.0003   | < 0.0005 | 0.012    | 0.19   | 0.72 |
|                                                           |           |                |         |          | MAXIMUM            | 7.7      | 9.5                              | 8.0                      | 0.00013   | 1.2      | 0.006    | 0.004     | < 0.00002             | 0.0007             | 2.0                | 0.00012   | 0.0008   | 0.0009   | 0.019    | 0.39   | 5.5  |
|                                                           |           |                |         |          | MEDIAN             | 6.5      | 8.4                              | 7.4                      | 0.00009   | 0.52     | 0.001    | 0.002     | nc                    | nc                 | 1.3                | 0.00007   | 0.0003   | nc       | 0.014    | 0.33   | 4.9  |
|                                                           |           |                |         |          | AVERAGE            | 6.6      | 8.5                              | 7.4                      | 0.00009   | 0.71     | 0.002    | 0.003     | nc                    | nc                 | 1.5                | 0.00006   | 0.0005   | nc       | 0.015    | 0.30   | 3.7  |
|                                                           |           |                |         |          | STANDARD DEVIATION | 1.0      | nc                               | 0.7                      | 0.00004   | 0.45     | 0.003    | 0.001     | nc                    | nc                 | 0.38               | 0.00006   | 0.0003   | nc       | 0.004    | 0.10   | 2.6  |
|                                                           |           |                |         |          | 75TH PERCENTILE    | 7.1      | nc                               | 7.7                      | 0.00011   | 0.88     | 0.003    | 0.003     | nc                    | nc                 | 1.6                | 0.00009   | 0.0006   | nc       | 0.017    | 0.36   | 5.2  |

Appendix A.3  
SFE Leachate Results - Rock Quarry Material for Road Construction  
Meliadine Project, Nunavut  
Agnico-Eagle Mines Ltd

| CCME (CEQG) (freshwater aquatic life) <sup>1</sup> (mg/L)                        |           |                |         |          |         |         |         |           | 0.073   |         | 0.025 <sup>4</sup> | 0.001 <sup>4</sup> |         | 0.001     |         |          |           | 0.0008    |         |           |          |         | 0.03    |       |
|----------------------------------------------------------------------------------|-----------|----------------|---------|----------|---------|---------|---------|-----------|---------|---------|--------------------|--------------------|---------|-----------|---------|----------|-----------|-----------|---------|-----------|----------|---------|---------|-------|
| Metal Mine Effluent Regulation (MMER) <sup>2</sup> (mg/L)                        |           |                |         |          |         |         |         |           |         |         | 0.5                | 0.2                |         |           |         |          |           |           |         |           |          |         | 0.5     |       |
| PROPOSED LOCATION                                                                | SAMPLE ID | SAMPLE TYPE    | EASTING | NORTHING | Li mg/L | Mg mg/L | Mn mg/L | Mo mg/L   | Na mg/L | Ni mg/L | Pb mg/L            | Sb mg/L            | Se mg/L | Sn mg/L   | Sr mg/L | Ti mg/L  | Tl mg/L   | U mg/L    | V mg/L  | W mg/L    | Y mg/L   | Zn mg/L |         |       |
| R14                                                                              | R14-01    | mafic volcanic | 547044  | 6974196  | 0.007   | 2.5     | 0.022   | 0.0001    | 4.6     | 0.0188  | 0.00004            | < 0.0002           | 0.001   | < 0.00001 | 0.01    | 0.006    | < 0.00002 | 0.00003   | 0.001   | 0.0001    | 0.00005  | 0.00005 | 0.002   |       |
| R14                                                                              | R14-02    | mafic volcanic | 547011  | 6974197  | 0.002   | 1.1     | 0.003   | 0.0004    | 4.7     | 0.0025  | 0.00014            | < 0.0002           | < 0.001 | < 0.00001 | 0.01    | 0.011    | < 0.00002 | 0.00028   | 0.010   | 0.0004    | 0.00014  | 0.00014 | 0.002   |       |
| R14                                                                              | R14-03    | mafic volcanic | 546989  | 6974173  | 0.003   | 0.82    | 0.18    | < 0.00001 | 1.4     | 0.0035  | < 0.00002          | < 0.0002           | < 0.001 | < 0.00001 | 0.02    | 0.001    | 0.00002   | 0.00004   | 0.000   | < 0.00003 | 0.00018  | 0.00018 | 0.001   |       |
| R14                                                                              | R14-04    | mafic volcanic | 546930  | 6974216  | 0.004   | 0.45    | 0.002   | 0.0006    | 4.9     | 0.0006  | 0.00005            | 0.0003             | < 0.001 | < 0.00001 | 0.02    | 0.004    | < 0.00002 | 0.0002    | 0.02    | 0.0004    | 0.00003  | 0.00003 | 0.002   |       |
| R14                                                                              | R14-05    | mafic volcanic | 546872  | 6974220  | < 0.001 | 0.70    | 0.004   | 0.0004    | 4.8     | 0.0015  | 0.00024            | 0.0009             | < 0.001 | < 0.00001 | 0.01    | 0.004    | < 0.00002 | 0.0002    | 0.01    | 0.0005    | 0.00011  | 0.00011 | 0.004   |       |
| MINIMUM<br>MAXIMUM<br>MEDIAN<br>AVERAGE<br>STANDARD DEVIATION<br>75TH PERCENTILE |           |                |         |          | < 0.001 | 0.45    | 0.002   | < 0.00001 | 1.4     | 0.0006  | < 0.00002          | < 0.0002           | < 0.001 | < 0.00001 | 0.01    | 0.001    | 0.00002   | 0.00003   | 0.000   | 0.0000    | 0.00003  | 0.00003 | 0.001   |       |
|                                                                                  |           |                |         |          | 0.007   | 2.5     | 0.18    | 0.0006    | 4.9     | 0.0188  | 0.00024            | 0.0009             | 0.001   | 0.000     | 0.02    | 0.011    | 0.00002   | 0.00003   | 0.02    | 0.0005    | 0.00005  | 0.00018 | 0.00018 | 0.004 |
|                                                                                  |           |                |         |          | 0.003   | 0.82    | 0.004   | 0.0004    | 4.7     | 0.0025  | 0.00005            | nc                 | nc      | nc        | 0.01    | 0.004    | nc        | 0.0002    | 0.010   | 0.0004    | 0.00011  | 0.00011 | 0.002   |       |
|                                                                                  |           |                |         |          | 0.003   | 1.1     | 0.04    | 0.0003    | 4.1     | 0.0054  | 0.00010            | nc                 | nc      | nc        | 0.01    | 0.005    | nc        | 0.0001    | 0.008   | 0.0003    | 0.00010  | 0.00010 | 0.002   |       |
|                                                                                  |           |                |         |          | 0.002   | 0.81    | 0.08    | 0.0002    | 1.5     | 0.0076  | 0.00009            | nc                 | nc      | nc        | 0.00    | 0.004    | nc        | 0.0001    | 0.007   | 0.0002    | 0.00006  | 0.00006 | 0.001   |       |
|                                                                                  |           |                |         |          | 0.004   | 1.1     | 0.02    | 0.0004    | 4.8     | 0.0035  | 0.00014            | nc                 | nc      | nc        | 0.02    | 0.006    | nc        | 0.0002    | 0.014   | 0.0004    | 0.00014  | 0.002   |         |       |
| R16                                                                              | R16-01    | gabbro         | 548413  | 6970737  | < 0.001 | 0.55    | 0.000   | 0.0004    | 3.5     | 0.0012  | < 0.00002          | 0.0054             | < 0.001 | < 0.00001 | 0.01    | 0.000    | < 0.00002 | 0.00001   | 0.02    | 0.0011    | 0.000005 | < 0.001 |         |       |
| R16                                                                              | R16-02    | gabbro         | 548272  | 6970758  | < 0.001 | 1.1     | 0.001   | 0.0003    | 4.2     | 0.0036  | 0.00002            | 0.0055             | < 0.001 | < 0.00001 | 0.01    | 0.002    | < 0.00002 | 0.00001   | 0.03    | 0.0009    | 0.00001  | 0.001   |         |       |
| R16                                                                              | R16-03    | gabbro         | 548147  | 6970767  | < 0.001 | 1.7     | 0.003   | < 0.00001 | 3.3     | 0.0067  | 0.00022            | 0.0053             | < 0.001 | < 0.00001 | 0.02    | 0.005    | < 0.00002 | 0.00003   | 0.02    | 0.0013    | 0.00004  | 0.006   |         |       |
| R16                                                                              | R16-04    | gabbro         | 547959  | 6970827  | < 0.001 | 2.0     | 0.002   | 0.0002    | 4.0     | 0.0060  | 0.00005            | 0.0076             | < 0.001 | < 0.00001 | 0.01    | 0.005    | < 0.00002 | 0.00002   | 0.02    | 0.0007    | 0.00002  | 0.001   |         |       |
| R16                                                                              | R16-05    | gabbro         | 547736  | 6970852  | < 0.001 | 1.6     | 0.001   | 0.0004    | 4.7     | 0.0021  | < 0.00002          | 0.0030             | < 0.001 | < 0.00001 | 0.01    | 0.002    | < 0.00002 | 0.0001    | 0.004   | 0.0006    | 0.00001  | < 0.001 |         |       |
| R16                                                                              | R16-06    | gabbro         | 547495  | 6970904  | < 0.001 | 0.38    | 0.001   | 0.0003    | 3.3     | 0.0010  | < 0.00002          | 0.0100             | < 0.001 | < 0.00001 | 0.01    | 0.001    | < 0.00002 | 0.00001   | 0.02    | 0.0010    | 0.000005 | < 0.001 |         |       |
| R16                                                                              | R16-07    | gabbro         | 547282  | 6970908  | < 0.001 | 0.59    | 0.001   | 0.0001    | 2.8     | 0.0002  | < 0.00002          | 0.0019             | < 0.001 | < 0.00001 | 0.005   | 0.002    | < 0.00002 | 0.00001   | 0.03    | 0.0003    | 0.000007 | < 0.001 |         |       |
| R16                                                                              | R16-08    | gabbro         | 547014  | 6971068  | < 0.001 | 0.59    | 0.001   | 0.0003    | 3.7     | 0.0043  | 0.00005            | 0.0024             | < 0.001 | < 0.00001 | 0.01    | 0.004    | < 0.00002 | 0.00005   | 0.010   | 0.0007    | 0.00004  | < 0.001 |         |       |
| R16                                                                              | R16-09    | gabbro         | 546915  | 6971079  | < 0.001 | 1.2     | 0.003   | 0.0005    | 3.6     | 0.0107  | 0.00029            | 0.0025             | < 0.001 | < 0.00001 | 0.005   | 0.008    | < 0.00002 | 0.00005   | 0.008   | 0.0020    | 0.00007  | 0.00007 | 0.004   |       |
| MINIMUM<br>MAXIMUM<br>MEDIAN<br>AVERAGE<br>STANDARD DEVIATION<br>75TH PERCENTILE |           |                |         |          | < 0.001 | 0.38    | 0.000   | < 0.00001 | 2.8     | 0.0002  | < 0.00002          | 0.0019             | < 0.001 | < 0.00001 | 0.005   | 0.000    | < 0.00002 | 0.00001   | 0.004   | 0.0003    | 0.000005 | < 0.001 |         |       |
|                                                                                  |           |                |         |          | < 0.001 | 2.0     | 0.003   | 0.004     | 4.7     | 0.0107  | 0.00029            | 0.0100             | 0.001   | 0.000     | 0.02    | 0.008    | < 0.00002 | 0.0001    | 0.03    | 0.0020    | 0.00007  | 0.006   |         |       |
|                                                                                  |           |                |         |          | nc      | 1.1     | 0.001   | 0.0003    | 3.6     | 0.0036  | 0.00002            | 0.0053             | nc      | nc        | 0.01    | 0.002    | nc        | 0.00002   | 0.02    | 0.0009    | 0.00001  | 0.001   |         |       |
|                                                                                  |           |                |         |          | nc      | 1.1     | 0.001   | 0.0006    | 3.7     | 0.0040  | 0.00008            | 0.0048             | nc      | nc        | 0.01    | 0.003    | nc        | 0.00004   | 0.02    | 0.0009    | 0.00002  | 0.002   |         |       |
|                                                                                  |           |                |         |          | nc      | 0.6     | 0.001   | 0.001     | 0.57    | 0.0034  | 0.00010            | 0.0027             | nc      | nc        | 0.005   | 0.003    | nc        | 0.00005   | 0.009   | 0.0005    | 0.00002  | 0.002   |         |       |
|                                                                                  |           |                |         |          | nc      | 1.6     | 0.002   | 0.0004    | 4.0     | 0.0060  | 0.00005            | 0.0055             | nc      | nc        | 0.01    | 0.005    | nc        | 0.00005   | 0.02    | 0.0011    | 0.00004  | 0.001   |         |       |
| R17                                                                              | R17-01    | mafic volcanic | 545082  | 6971576  | 0.001   | 2.4     | 0.012   | 0.0003    | 6.7     | 0.0121  | < 0.00002          | < 0.0002           | 0.001   | < 0.00001 | 0.02    | 0.000    | < 0.00002 | 0.00001   | 0.000   | < 0.00003 | 0.00001  | < 0.001 |         |       |
| R17                                                                              | R17-02    | mafic volcanic | 545053  | 6971595  | < 0.001 | 0.36    | 0.000   | 0.0002    | 2.3     | 0.0002  | < 0.00002          | 0.0028             | < 0.001 | < 0.00001 | 0.02    | < 0.0001 | < 0.00002 | 0.00000   | 0.00    | 0.0010    | 0.000001 | < 0.001 |         |       |
| R17                                                                              | R17-03    | mafic volcanic | 545077  | 6971595  | < 0.001 | 0.58    | 0.000   | 0.0001    | 3.6     | 0.0008  | < 0.00002          | 0.0084             | < 0.001 | < 0.00001 | 0.02    | 0.000    | < 0.00002 | 0.00000   | 0.03    | 0.0015    | 0.000002 | < 0.001 |         |       |
| R17                                                                              | R17A-01   | mafic volcanic | 545480  | 6971560  | < 0.001 | 0.81    | 0.004   | 0.0003    | 3.6     | 0.0011  | 0.00060            | 0.0027             | < 0.001 | < 0.00001 | 0.02    | 0.008    | < 0.00002 | 0.00002   | 0.02    | 0.0013    | 0.00004  | 0.002   |         |       |
| MINIMUM<br>MAXIMUM<br>MEDIAN<br>AVERAGE<br>STANDARD DEVIATION<br>75TH PERCENTILE |           |                |         |          | < 0.001 | 0.36    | 0.000   | 0.0001    | 2.3     | 0.0002  | < 0.00002          | < 0.0002           | < 0.001 | < 0.00001 | 0.02    | 0.000    | < 0.00002 | 0.00000   | 0.000   | 0.0000    | 0.000001 | < 0.001 |         |       |
|                                                                                  |           |                |         |          | 0.001   | 2.4     | 0.012   | 0.0003    | 6.7     | 0.0121  | 0.00060            | 0.0084             | 0.001   | < 0.00001 | 0.02    | 0.008    | < 0.00002 | 0.00002   | 0.03    | 0.0015    | 0.00004  | 0.00004 | 0.002   |       |
|                                                                                  |           |                |         |          | nc      | 0.70    | 0.002   | 0.0003    | 3.6     | 0.0010  | nc                 | 0.0028             | nc      | nc        | 0.02    | 0.000    | nc        | 0.00001   | 0.01    | 0.0011    | 0.00001  | nc      |         |       |
|                                                                                  |           |                |         |          | nc      | 1.0     | 0.004   | 0.0002    | 4.1     | 0.0036  | nc                 | 0.0035             | nc      | nc        | 0.02    | 0.002    | nc        | 0.00001   | 0.01    | 0.0009    | 0.00001  | nc      |         |       |
|                                                                                  |           |                |         |          | nc      | 0.91    | 0.005   | 0.0001    | 1.8     | 0.0057  | nc                 | 0.0035             | nc      | nc        | 0.00    | 0.004    | nc        | 0.00001   | 0.01    | 0.0006    | 0.00002  | nc      |         |       |
|                                                                                  |           |                |         |          | nc      | 1.2     | 0.006   | 0.0003    | 4.4     | 0.0039  | nc                 | 0.0042             | nc      | nc        | 0.02    | 0.002    | nc        | 0.00001   | 0.02    | 0.0013    | 0.00002  | nc      |         |       |
| R19                                                                              | R19-01    | mafic volcanic | 543903  | 6970391  | < 0.001 | 1.8     | 0.005   | 0.0002    | 4.3     | 0.0014  | 0.00004            | < 0.0002           | < 0.001 | < 0.00001 | 0.01    | 0.017    | < 0.00002 | 0.00003   | 0.03    | 0.0000    | 0.00011  | < 0.001 |         |       |
| R19                                                                              | R19-02    | mafic volcanic | 543930  | 6970376  | < 0.001 | 0.63    | 0.0002  | 0.0006    | 3.3     | 0.0002  | < 0.00002          | 0.0004             | < 0.001 | < 0.00001 | 0.02    | 0.000    | < 0.00002 | 0.00001   | 0.01    | 0.0006    | 0.000003 | < 0.001 |         |       |
| R19                                                                              | R19-03    | mafic volcanic | 543954  | 6970360  | < 0.001 | 1.3     | 0.001   | 0.0002    | 5.2     | 0.0006  | < 0.00002          | < 0.0002           | < 0.001 | < 0.00001 | 0.02    | 0.003    | < 0.00002 | 0.00002   | 0.03    | < 0.00003 | 0.00001  | < 0.001 |         |       |
| MINIMUM<br>MAXIMUM<br>MEDIAN<br>AVERAGE<br>STANDARD DEVIATION<br>75TH PERCENTILE |           |                |         |          | < 0.001 | 0.63    | 0.0002  | 0.0002    | 3.3     | 0.0002  | < 0.00002          | < 0.0002           | < 0.001 | < 0.00001 | 0.01    | 0.000    | < 0.00002 | 0.00001   | 0.01    | 0.0000    | 0.000003 | < 0.001 |         |       |
|                                                                                  |           |                |         |          | < 0.001 | 1.8     | 0.005   | 0.0006    | 5.2     | 0.0014  | 0.00004            | 0.0004             | < 0.001 | < 0.00001 | 0.02    | 0.017    | < 0.00002 | 0.00003   | 0.03    | 0.0006    | 0.00011  | < 0.001 |         |       |
|                                                                                  |           |                |         |          | nc      | 1.3     | 0.001   | 0.0002    | 4.3     | 0.0006  | nc                 | nc                 | nc      | nc        | 0.02    | 0.003    | nc        | 0.00002   | 0.03    | nc        | 0.00001  | nc      |         |       |
|                                                                                  |           |                |         |          | nc      | 1.2     | 0.002   | 0.0003    | 4.3     | 0.0007  | nc                 | nc                 | nc      | nc        | 0.02    | 0.007    | nc        | 0.00002   | 0.03    | nc        | 0.00004  | nc      |         |       |
|                                                                                  |           |                |         |          | nc      | 0.57    | 0.002   | 0.0002    | 0.95    | 0.0006  | nc                 | nc                 | nc      | nc        | 0.00    | 0.009    | nc        | 0.00001   | 0.01    | nc        | 0.00006  | nc      |         |       |
|                                                                                  |           |                |         |          | nc      | 1.5     | 0.003   | 0.0004    | 4.8     | 0.0010  | nc                 | nc                 | nc      | nc        | 0.02    | 0.010    | nc        | 0.00002   | 0.03    | nc        | 0.00006  | nc      |         |       |
| R82                                                                              | R82-01    | mafic volcanic | 547421  | 6977137  | 0.006   | 0.83    | 0.004   | 0.0008    | 3.9     | 0.001   | 0.00016            | < 0.0002           | < 0.001 | 0.0003    | 0.003   | 0.014    | 0.0002    | 0.0001    | 0.003   | 0.0007    | 0.00017  | 0.001   |         |       |
| R82                                                                              | R82-02    | mafic volcanic | 547435  | 6977144  | 0.002   | 0.98    | 0.007   | 0.004     | 2.6     | 0.003   | 0.00012            | < 0.0002           | < 0.001 | 0.0001    | 0.003   | 0.009    | 0.00009   | 0.0002    | 0.003   | 0.0004    | 0.00016  | < 0.001 |         |       |
| R82                                                                              | R82-03    | mafic volcanic | 547451  | 6977153  | < 0.001 | 0.75    | 0.004   | 0.008     | 3.1     | 0.001   | 0.00009            | < 0.0002           | < 0.001 | < 0.00001 | 0.005   | 0.005    | < 0.00002 | 0.00003   | 0.02    | 0.0027    | 0.00006  | 0.002   |         |       |
| MINIMUM<br>MAXIMUM<br>MEDIAN<br>AVERAGE<br>STANDARD DEVIATION<br>75TH PERCENTILE |           |                |         |          | < 0.001 | 0.75    | 0.004   | 0.0008    | 2.6     | 0.001   | 0.00009            | < 0.0002           | < 0.001 | < 0.00001 | 0.003   | 0.003    | 0.005     | < 0.00002 | 0.00003 | 0.003     | 0.0004   | 0.00006 | < 0.001 |       |
|                                                                                  |           |                |         |          | 0.006   | 0.98    | 0.007   | 0.008     | 3.9     | 0.003   | 0.00016            | < 0.               |         |           |         |          |           |           |         |           |          |         |         |       |

Appendix A.3  
SFE Leachate Results - Rock Quarry Material for Road Construction  
Meliadine Project, Nunavut  
Agnico-Eagle Mines Ltd

| CCME (CEQG) (freshwater aquatic life) <sup>1</sup> (mg/L) |           |                |         |          |            | 6.5 - 9.0 |                                  | 0.0001    | 0.005 - 0.1 <sup>2</sup> | 0.005   |        |           |           |         | 0.000017 <sup>4</sup> | 0.001 <sup>5</sup> | 0.002 <sup>4</sup> | 0.3     |         |        |
|-----------------------------------------------------------|-----------|----------------|---------|----------|------------|-----------|----------------------------------|-----------|--------------------------|---------|--------|-----------|-----------|---------|-----------------------|--------------------|--------------------|---------|---------|--------|
| Metal Mine Effluent Regulation (MMER) <sup>2</sup> (mg/L) |           |                |         |          |            | 6.0 - 9.5 |                                  |           |                          | 0.5     |        |           |           |         |                       |                    | 0.3                |         |         |        |
| PROPOSED LOCATION                                         | SAMPLE ID | SAMPLE TYPE    | EASTING | NORTHING | Initial pH | Final pH  | Hardness mg CaCO <sub>3</sub> /L | Ag mg/L   | Al mg/L                  | As mg/L | B mg/L | Be mg/L   | Bi mg/L   | Ca mg/L | Cd mg/L               | Co mg/L            | Cr mg/L            | Cu mg/L | Fe mg/L | K mg/L |
| R280                                                      | R280-01   | granite        | 544401  | 6981741  | 9.4        | 9.2       | 13                               | 0.00003   | 1.2                      | 0.0002  | 0.002  | < 0.00002 | < 0.00001 | 4.8     | 0.00001               | 0.0001             | < 0.0005           | 0.001   | 0.04    | 4.6    |
| R280                                                      | R280-02   | granite        | 544425  | 6981744  | 8.6        | 8.8       | 17                               | 0.00002   | 0.75                     | 0.001   | 0.002  | < 0.00002 | < 0.00001 | 6.2     | 0.00001               | 0.0001             | < 0.0005           | 0.001   | 0.05    | 5.4    |
| R280                                                      | R280-03   | granite        | 544444  | 6981745  | 9.2        | 8.9       | 20                               | 0.00007   | 0.69                     | 0.001   | 0.000  | < 0.00002 | < 0.00001 | 6.7     | 0.00008               | 0.0002             | 0.0008             | 0.002   | 0.04    | 5.9    |
| MINIMUM                                                   |           |                |         |          | 8.6        | 8.8       | 13                               | 0.00002   | 0.69                     | 0.0002  | 0.000  | < 0.00002 | < 0.00001 | 4.8     | 0.00001               | 0.0001             | < 0.0005           | 0.001   | 0.04    | 4.6    |
| MAXIMUM                                                   |           |                |         |          | 9.4        | 9.2       | 20                               | 0.00007   | 1.2                      | 0.001   | 0.002  | < 0.00002 | < 0.00001 | 6.7     | 0.00008               | 0.0002             | 0.0008             | 0.002   | 0.05    | 5.9    |
| MEDIAN                                                    |           |                |         |          | 9.2        | 8.9       | 17                               | 0.00003   | 0.75                     | 0.001   | 0.002  | nc        | nc        | 6.2     | 0.00001               | 0.0001             | nc                 | 0.001   | 0.04    | 5.4    |
| AVERAGE                                                   |           |                |         |          | 9.1        | 8.9       | 17                               | 0.00004   | 0.86                     | 0.001   | 0.002  | nc        | nc        | 5.9     | 0.00003               | 0.0002             | nc                 | 0.001   | 0.04    | 5.3    |
| STANDARD DEVIATION                                        |           |                |         |          | 0.44       | nc        | 3.2                              | 0.00003   | 0.25                     | 0.000   | 0.001  | nc        | nc        | 1.0     | 0.00004               | 0.0001             | nc                 | 0.0004  | 0.01    | 0.67   |
| 75TH PERCENTILE                                           |           |                |         |          | 9.3        | nc        | 18                               | 0.00005   | 1.0                      | 0.001   | 0.002  | nc        | nc        | 6.4     | 0.00004               | 0.0002             | nc                 | 0.001   | 0.05    | 5.6    |
| R350                                                      | R350-01   | mafic volcanic | 543690  | 6983082  | 8.1        | 9.3       | 3.6                              | 0.00022   | 1.8                      | 0.001   | 0.001  | < 0.00002 | 0.0001    | 0.77    | 0.00005               | 0.0004             | < 0.0005           | 0.017   | 0.39    | 4.1    |
| R350                                                      | R350-02   | mafic volcanic | 543716  | 6983053  | 8.6        | 9.4       | 10                               | 0.00016   | 1.4                      | 0.002   | 0.001  | < 0.00002 | 0.0001    | 3.1     | 0.00004               | 0.0003             | < 0.0005           | 0.016   | 0.24    | 4.7    |
| R350                                                      | R350-03   | mafic volcanic | 543750  | 6983044  | 5.6        | 9.3       | 17                               | 0.00009   | 0.71                     | 0.002   | 0.001  | < 0.00002 | 0.0001    | 4.4     | 0.00001               | 0.0001             | < 0.0005           | 0.002   | 0.12    | 4.8    |
| R350                                                      | R350-04   | mafic volcanic | 543744  | 6983077  | 6.8        | 9.7       | 3.7                              | 0.00005   | 1.5                      | 0.0004  | 0.001  | < 0.00002 | 0.0000    | 0.90    | 0.000004              | 0.0001             | < 0.0005           | 0.006   | 0.18    | 3.6    |
| MINIMUM                                                   |           |                |         |          | 5.6        | 9.3       | 3.6                              | 0.00005   | 0.71                     | 0.0004  | 0.001  | < 0.00002 | 0.0000    | 0.77    | 0.000004              | 0.0001             | < 0.0005           | 0.002   | 0.12    | 3.6    |
| MAXIMUM                                                   |           |                |         |          | 8.6        | 9.7       | 17                               | 0.00022   | 1.8                      | 0.002   | 0.001  | 0.0000    | 0.0001    | 4.4     | 0.00005               | 0.0004             | 0.0005             | 0.017   | 0.39    | 4.8    |
| MEDIAN                                                    |           |                |         |          | 7.4        | 9.4       | 6.9                              | 0.00013   | 1.4                      | 0.001   | 0.001  | nc        | nc        | 2.0     | 0.00003               | 0.0002             | nc                 | 0.011   | 0.21    | 4.4    |
| AVERAGE                                                   |           |                |         |          | 7.3        | 9.4       | 8.6                              | 0.00013   | 1.3                      | 0.001   | 0.001  | nc        | nc        | 2.3     | 0.00003               | 0.0002             | nc                 | 0.010   | 0.23    | 4.3    |
| STANDARD DEVIATION                                        |           |                |         |          | 1.3        | nc        | 6.4                              | 0.00008   | 0.47                     | 0.001   | 0.000  | nc        | nc        | 1.8     | 0.00002               | 0.0001             | nc                 | 0.008   | 0.12    | 0.57   |
| 75TH PERCENTILE                                           |           |                |         |          | 8.2        | nc        | 12                               | 0.00018   | 1.5                      | 0.002   | 0.001  | nc        | nc        | 3.4     | 0.00004               | 0.0003             | nc                 | 0.016   | 0.28    | 4.7    |
| R359                                                      | R359-01   | mafic volcanic | 543706  | 6983412  | 8.6        | 9.7       | 12                               | 0.00003   | 1.4                      | 0.013   | 0.001  | < 0.00002 | < 0.00001 | 4.2     | < 0.000003            | 0.0001             | < 0.0005           | 0.006   | 0.11    | 4.3    |
| R359                                                      | R359-02   | mafic volcanic | 543767  | 6983412  | 9.6        | 9.8       | 18                               | 0.00002   | 1.3                      | 0.001   | 0.002  | < 0.00002 | < 0.00001 | 6.3     | < 0.000003            | 0.0001             | < 0.0005           | 0.008   | 0.07    | 2.6    |
| R359                                                      | R359-03   | mafic volcanic | 543767  | 6983384  | 7.8        | 9.7       | 8.1                              | 0.00003   | 1.2                      | 0.011   | 0.018  | < 0.00002 | < 0.00001 | 2.3     | < 0.000003            | 0.0002             | < 0.0005           | 0.007   | 0.15    | 2.8    |
| MINIMUM                                                   |           |                |         |          | 7.8        | 9.7       | 8.1                              | 0.00002   | 1.2                      | 0.001   | 0.001  | < 0.00002 | 0.0000    | 2.3     | < 0.000003            | 0.0001             | < 0.0005           | 0.006   | 0.07    | 2.6    |
| MAXIMUM                                                   |           |                |         |          | 9.6        | 9.8       | 18                               | 0.00003   | 1.4                      | 0.013   | 0.018  | < 0.00002 | 0.0000    | 6.3     | < 0.000003            | 0.0002             | < 0.0005           | 0.008   | 0.15    | 4.3    |
| MEDIAN                                                    |           |                |         |          | 8.6        | 9.7       | 12                               | 0.00003   | 1.3                      | 0.011   | 0.002  | nc        | nc        | 4.2     | nc                    | 0.0001             | nc                 | 0.007   | 0.11    | 2.8    |
| AVERAGE                                                   |           |                |         |          | 8.6        | 9.7       | 13                               | 0.00003   | 1.3                      | 0.008   | 0.007  | nc        | nc        | 4.3     | nc                    | 0.0001             | nc                 | 0.007   | 0.11    | 3.2    |
| STANDARD DEVIATION                                        |           |                |         |          | 0.89       | nc        | 5.1                              | 0.00001   | 0.06                     | 0.007   | 0.010  | nc        | nc        | 2.0     | nc                    | 0.0001             | nc                 | 0.001   | 0.04    | 0.91   |
| 75TH PERCENTILE                                           |           |                |         |          | 9.1        | nc        | 15                               | 0.00003   | 1.3                      | 0.012   | 0.010  | nc        | nc        | 5.2     | nc                    | 0.0002             | nc                 | 0.008   | 0.13    | 3.5    |
| T041                                                      | T041-01   | mafic volcanic | 547825  | 6978093  | 9.4        | 9.8       | 23                               | 0.00002   | 1.8                      | 0.0002  | 0.003  | < 0.00002 | < 0.00001 | 7.7     | 0.000005              | 0.0001             | < 0.0005           | 0.011   | 0.10    | 1.2    |
| T041                                                      | T041-02   | mafic volcanic | 547781  | 6978126  | 8.6        | 10.0      | 21                               | 0.00001   | 1.4                      | 0.0009  | 0.003  | < 0.00002 | < 0.00001 | 6.9     | < 0.000003            | 0.0001             | 0.0005             | 0.010   | 0.12    | 0.47   |
| T041                                                      | T041-03   | mafic volcanic | 547737  | 6978155  | 7.7        | 9.6       | 16                               | 0.00003   | 1.4                      | 0.0002  | 0.003  | < 0.00002 | < 0.00001 | 4.4     | < 0.000003            | 0.0004             | 0.0007             | 0.021   | 0.22    | 0.41   |
| T041                                                      | T041-04   | mafic volcanic | 547689  | 6978210  | 6.7        | 8.1       | 16                               | 0.00004   | 0.39                     | 0.0004  | 0.001  | < 0.00002 | 0.0001    | 2.9     | 0.000020              | 0.0007             | 0.0014             | 0.058   | 0.70    | 2.7    |
| T041                                                      | T041-05   | mafic volcanic | 547652  | 6978231  | 8.9        | 9.5       | 47                               | 0.00002   | 0.48                     | 0.0003  | 0.004  | < 0.00002 | 0.0001    | 15      | < 0.000003            | 0.0004             | < 0.0005           | 0.017   | 0.09    | 1.0    |
| MINIMUM                                                   |           |                |         |          | 6.7        | 8.1       | 16                               | 0.00001   | 0.39                     | 0.0002  | 0.001  | < 0.00002 | 0.0000    | 2.9     | < 0.000003            | 0.0001             | < 0.0005           | 0.010   | 0.09    | 0.41   |
| MAXIMUM                                                   |           |                |         |          | 9.4        | 10.0      | 47                               | 0.00004   | 1.8                      | 0.0009  | 0.004  | < 0.00002 | < 0.00001 | 15      | 0.00002               | 0.0007             | 0.0014             | 0.058   | 0.70    | 2.7    |
| MEDIAN                                                    |           |                |         |          | 8.6        | 9.6       | 21                               | 0.00002   | 1.4                      | 0.0003  | 0.003  | nc        | nc        | 6.9     | nc                    | 0.0004             | 0.0005             | 0.017   | 0.12    | 1.0    |
| AVERAGE                                                   |           |                |         |          | 8.3        | 8.8       | 25                               | 0.00002   | 1.1                      | 0.0004  | 0.003  | nc        | nc        | 7.4     | nc                    | 0.0003             | 0.0007             | 0.023   | 0.25    | 1.2    |
| STANDARD DEVIATION                                        |           |                |         |          | 1.1        | nc        | 13                               | 0.00001   | 0.63                     | 0.0003  | 0.001  | nc        | nc        | 4.7     | nc                    | 0.0002             | 0.0004             | 0.020   | 0.26    | 0.92   |
| 75TH PERCENTILE                                           |           |                |         |          | 8.9        | nc        | 23                               | 0.00003   | 1.4                      | 0.0004  | 0.003  | nc        | nc        | 7.7     | nc                    | 0.0004             | 0.0007             | 0.021   | 0.22    | 1.2    |
| T043                                                      | T43-01    | mafic volcanic | 547437  | 6976944  | 9.0        | 9.6       | 19                               | 0.00002   | 1.0                      | 0.001   | 0.004  | < 0.00002 | < 0.00001 | 5.9     | < 0.000003            | 0.0002             | 0.0006             | 0.014   | 0.08    | 2.9    |
| T043                                                      | T43-02    | mafic volcanic | 547500  | 6976956  | 8.5        | 9.5       | 34                               | 0.00003   | 1.1                      | 0.0003  | 0.003  | < 0.00002 | < 0.00001 | 10      | < 0.000003            | 0.0006             | < 0.0005           | 0.025   | 0.08    | 1.4    |
| T043                                                      | T43-03    | mafic volcanic | 547642  | 6976980  | 7.1        | 9.9       | 14                               | 0.00002   | 1.0                      | 0.001   | 0.003  | < 0.00002 | < 0.00001 | 4.8     | < 0.000003            | 0.0001             | < 0.0005           | 0.002   | 0.04    | 2.8    |
| T043                                                      | T43-04    | mafic volcanic | 547585  | 6976964  | 9.3        | 9.8       | 37                               | 0.00007   | 0.77                     | 0.002   | 0.004  | < 0.00002 | 0.0002    | 13      | 0.00003               | 0.0006             | 0.0010             | 0.044   | 0.09    | 1.2    |
| T043                                                      | T43-05    | mafic volcanic | 547537  | 6976956  | 9.6        | 9.6       | 17                               | 0.00001   | 1.2                      | 0.0003  | 0.002  | < 0.00002 | < 0.00001 | 6.0     | < 0.000003            | 0.0001             | < 0.0005           | 0.007   | 0.04    | 4.4    |
| MINIMUM                                                   |           |                |         |          | 7.1        | 9.5       | 14                               | 0.00001   | 0.77                     | 0.0003  | 0.002  | < 0.00002 | 0.0000    | 4.8     | < 0.000003            | 0.0001             | < 0.0005           | 0.002   | 0.04    | 1.2    |
| MAXIMUM                                                   |           |                |         |          | 9.6        | 9.9       | 37                               | 0.00007   | 1.2                      | 0.002   | 0.004  | < 0.00002 | 0.0002    | 13      | 0.00003               | 0.0006             | 0.0010             | 0.044   | 0.09    | 4.4    |
| MEDIAN                                                    |           |                |         |          | 9.0        | 9.6       | 19                               | 0.00002   | 1.0                      | 0.001   | 0.003  | nc        | nc        | 6.0     | nc                    | 0.0002             | 0.0005             | 0.014   | 0.08    | 2.8    |
| AVERAGE                                                   |           |                |         |          | 8.7        | 9.6       | 24                               | 0.00003   | 1.0                      | 0.001   | 0.003  | nc        | nc        | 7.9     | nc                    | 0.0003             | 0.0006             | 0.018   | 0.07    | 2.5    |
| STANDARD DEVIATION                                        |           |                |         |          | 1.0        | nc        | 10                               | 0.00002   | 0.14                     | 0.001   | 0.001  | nc        | nc        | 3.3     | nc                    | 0.0003             | 0.0002             | 0.017   | 0.02    | 1.3    |
| 75TH PERCENTILE                                           |           |                |         |          | 9.3        | nc        | 34                               | 0.00003   | 1.1                      | 0.001   | 0.004  | nc        | nc        | 10      | nc                    | 0.0006             | 0.0006             | 0.025   | 0.08    | 2.9    |
| T046                                                      | T046-01   | mafic volcanic | 552923  | 6981408  | 9.6        | 9.6       | 26                               | < 0.00001 | 0.59                     | 0.1     | 0.005  | < 0.00002 | < 0.00001 | 8.4     | < 0.000003            | 0.0003             | < 0.0005           | 0.003   | 0.04    | 2.3    |
| T046                                                      | T046-02   | mafic volcanic | 552872  | 6981426  | 9.6        | 9.4       | 32                               | < 0.00001 | 1.1                      | 0.4     | 0.002  | < 0.00002 | < 0.00001 | 11      | < 0.000003            | 0.0003             | < 0.0005           | 0.004   | 0.01    | 2.3    |
| T046                                                      | T046-03   | mafic volcanic | 552811  | 6981446  | 9.8        | 9.8       | 17                               | < 0.00001 | 1.1                      | 0.01    | 0.003  | < 0.00002 | < 0.00001 | 6.0     | < 0.000003            | 0.0002             | 0.0005             | 0.003   | 0.12    | 0.51   |
| T046                                                      | T046-04   | mafic volcanic | 552708  | 6981506  | 9.7        | 9.7       | 19                               | 0.00001   | 1.7                      | 0.003   | 0.005  | < 0.00002 | < 0.00001 | 6.7     | < 0.000003            | 0.0002             | 0.0006             | 0.003   | 0.18    | 1.8    |
| T046                                                      | T046-05   | mafic volcanic | 552603  | 6981559  | 9.7        | 9.6       | 21                               | 0.00006   | 1.3                      | 0.01    | 0.003  | < 0.00002 | 0.0001    | 7.2     | 0.00007               | 0.0004             | 0.0008             | 0.008   | 0.23    | 3.6    |
| MINIMUM                                                   |           |                |         |          | 9.6        | 9.4       | 17                               | < 0.00001 | 0.59                     | 0.003   | 0.002  | < 0.00002 | < 0.00001 | 6.0     | < 0.000003            | 0.0002             | < 0.0005           | 0.003   | 0.01    | 0.51   |
| MAXIMUM                                                   |           |                |         |          | 9.8        | 9.8       | 32                               | 0.00006   | 1.7                      | 0.4     | 0.005  | < 0.00002 | < 0.00001 | 11      | 0.00007               | 0.0004             | 0.0008             | 0.008   | 0.23    | 3.6    |
| MEDIAN                                                    |           |                |         |          | 9.7        | 9.6       | 21                               | nc        | 1.1                      | 0.01    | 0.003  | nc        | nc        | 7.2     | nc                    | 0.0003             | 0.0005             | 0.003   | 0.12    | 2.3    |
| AVERAGE                                                   |           |                |         |          | 9.7        | 9.6       | 23                               | nc        | 1.1                      | 0.01    | 0.004  | nc        | nc        | 7.8     | nc                    | 0.0003             | 0.0006             | 0.004   | 0.12    | 2.1    |
| STANDARD DEVIATION                                        |           |                |         |          | 0.07       | nc        | 6.0                              | nc        | 0.40                     | 0.2     | 0.001  | nc        | nc        | 1.9     | nc                    | 0.0001             | 0.0001             | 0.002   | 0.09    | 1.1    |
| 75TH PERCENTILE                                           |           |                |         |          | 9.7        | nc        | 26                               | nc        | 1.3                      | 0.1     | 0.005  | nc        | nc        | 8.4     | nc                    | 0.0003             | 0.0006             | 0.004   | 0.18    | 2.3    |

## SFE Leachate Results - Rock Quarry Material for Road Construction

Meliadine Project, Nunavut

Agnico-Eagle Mines Ltd

| CCME (CEQG) (freshwater aquatic life) <sup>1</sup> (mg/L) |           |                |         |          |         |         |         | 0.073     |         | 0.025 <sup>4</sup> | 0.001 <sup>4</sup> |          | 0.001   |           |         | 0.0008  |           |         |        |        | 0.03     |         |
|-----------------------------------------------------------|-----------|----------------|---------|----------|---------|---------|---------|-----------|---------|--------------------|--------------------|----------|---------|-----------|---------|---------|-----------|---------|--------|--------|----------|---------|
| Metal Mine Effluent Regulation (MMER) <sup>2</sup> (mg/L) |           |                |         |          |         |         |         |           |         | 0.5                | 0.2                |          |         |           |         |         |           |         |        |        | 0.5      |         |
| PROPOSED LOCATION                                         | SAMPLE ID | SAMPLE TYPE    | EASTING | NORTHING | Li mg/L | Mg mg/L | Mn mg/L | Mo mg/L   | Na mg/L | Ni mg/L            | Pb mg/L            | Sb mg/L  | Se mg/L | Sn mg/L   | Sr mg/L | Ti mg/L | Tl mg/L   | U mg/L  | V mg/L | W mg/L | Y mg/L   | Zn mg/L |
| R280                                                      | R280-01   | granite        | 544401  | 6981741  | 0.001   | 0.34    | 0.002   | 0.0003    | 6.0     | 0.0003             | 0.00004            | < 0.0002 | < 0.001 | < 0.00001 | 0.01    | 0.003   | < 0.00002 | 0.0002  | 0.002  | 0.0002 | 0.00003  | < 0.001 |
| R280                                                      | R280-02   | granite        | 544425  | 6981744  | 0.001   | 0.39    | 0.003   | 0.0001    | 6.0     | 0.0004             | 0.00005            | < 0.0002 | < 0.001 | < 0.00001 | 0.01    | 0.004   | < 0.00002 | 0.0001  | 0.002  | 0.0001 | 0.00004  | < 0.001 |
| R280                                                      | R280-03   | granite        | 544444  | 6981745  | < 0.001 | 0.68    | 0.006   | < 0.00001 | 7.1     | 0.0009             | 0.00027            | < 0.0002 | < 0.001 | < 0.00001 | 0.02    | 0.003   | < 0.00002 | 0.0003  | 0.003  | 0.0011 | 0.00009  | 0.003   |
| MINIMUM                                                   |           |                |         |          | < 0.001 | 0.34    | 0.002   | < 0.00001 | 6.0     | 0.0003             | 0.00004            | < 0.0002 | < 0.001 | < 0.00001 | 0.01    | 0.003   | < 0.00002 | 0.00015 | 0.002  | 0.0001 | 0.00003  | < 0.001 |
| MAXIMUM                                                   |           |                |         |          | 0.001   | 0.68    | 0.006   | 0.0003    | 7.1     | 0.0009             | 0.00027            | < 0.0002 | < 0.001 | < 0.00001 | 0.02    | 0.004   | < 0.00002 | 0.0003  | 0.003  | 0.0011 | 0.00009  | 0.003   |
| MEDIAN                                                    |           |                |         |          | nc      | 0.39    | 0.003   | 0.0001    | 6.0     | 0.0004             | 0.00005            | nc       | nc      | nc        | 0.01    | 0.003   | nc        | 0.0002  | 0.002  | 0.0002 | 0.00004  | nc      |
| AVERAGE                                                   |           |                |         |          | nc      | 0.47    | 0.004   | 0.0001    | 6.4     | 0.0005             | 0.00012            | nc       | nc      | nc        | 0.01    | 0.003   | nc        | 0.0002  | 0.002  | 0.0004 | 0.00005  | nc      |
| STANDARD DEVIATION                                        |           |                |         |          | nc      | 0.18    | 0.002   | 0.0001    | 0.61    | 0.0003             | 0.00013            | nc       | nc      | nc        | 0.00    | 0.000   | nc        | 0.00009 | 0.000  | 0.0006 | 0.00003  | nc      |
| 75TH PERCENTILE                                           |           |                |         |          | nc      | 0.53    | 0.005   | 0.0002    | 6.6     | 0.0007             | 0.00016            | nc       | nc      | nc        | 0.02    | 0.003   | nc        | 0.0002  | 0.003  | 0.0006 | 0.00006  | nc      |
| R350                                                      | R350-01   | mafic volcanic | 543690  | 6983082  | < 0.001 | 0.39    | 0.005   | 0.0007    | 3.8     | 0.0013             | 0.00016            | 0.0006   | < 0.001 | 0.00001   | 0.002   | 0.018   | 0.00011   | 0.0002  | 0.01   | 0.0003 | 0.00018  | 0.002   |
| R350                                                      | R350-02   | mafic volcanic | 543716  | 6983053  | < 0.001 | 0.56    | 0.004   | 0.0007    | 5.0     | 0.0007             | 0.00012            | < 0.0002 | < 0.001 | 0.00001   | 0.01    | 0.008   | 0.00007   | 0.0003  | 0.01   | 0.0002 | 0.00019  | 0.001   |
| R350                                                      | R350-03   | mafic volcanic | 543750  | 6983044  | 0.003   | 1.4     | 0.002   | 0.0002    | 4.6     | 0.0007             | 0.00004            | < 0.0002 | < 0.001 | 0.00001   | 0.01    | 0.004   | 0.00003   | 0.00004 | 0.01   | 0.0000 | 0.00004  | 0.001   |
| R350                                                      | R350-04   | mafic volcanic | 543744  | 6983077  | < 0.001 | 0.35    | 0.002   | 0.0004    | 3.3     | 0.0007             | 0.00008            | < 0.0002 | < 0.001 | 0.00002   | 0.002   | 0.007   | < 0.00002 | 0.00008 | 0.02   | 0.0001 | 0.00006  | 0.002   |
| MINIMUM                                                   |           |                |         |          | < 0.001 | 0.35    | 0.002   | 0.0002    | 3.3     | 0.0007             | 0.00004            | < 0.0002 | < 0.001 | 0.00001   | 0.002   | 0.004   | 0.00002   | 0.00004 | 0.01   | 0.0000 | 0.00004  | 0.001   |
| MAXIMUM                                                   |           |                |         |          | 0.003   | 1.4     | 0.005   | 0.0007    | 5.0     | 0.0013             | 0.00016            | 0.0006   | < 0.001 | 0.0001    | 0.01    | 0.018   | 0.00011   | 0.0003  | 0.02   | 0.0003 | 0.00019  | 0.002   |
| MEDIAN                                                    |           |                |         |          | nc      | 0.48    | 0.003   | 0.0005    | 4.2     | 0.0007             | 0.00010            | nc       | nc      | 0.00004   | 0.004   | 0.008   | 0.00005   | 0.0001  | 0.01   | 0.0002 | 0.00012  | 0.002   |
| AVERAGE                                                   |           |                |         |          | nc      | 0.68    | 0.003   | 0.0005    | 4.2     | 0.0009             | 0.00010            | nc       | nc      | 0.00004   | 0.01    | 0.009   | 0.00006   | 0.0002  | 0.01   | 0.0002 | 0.00012  | 0.002   |
| STANDARD DEVIATION                                        |           |                |         |          | nc      | 0.51    | 0.001   | 0.0003    | 0.77    | 0.0003             | 0.00005            | nc       | nc      | 0.00002   | 0.005   | 0.006   | 0.00004   | 0.0001  | 0.00   | 0.0001 | 0.00008  | 0.001   |
| 75TH PERCENTILE                                           |           |                |         |          | nc      | 0.78    | 0.004   | 0.0007    | 4.7     | 0.0009             | 0.00013            | nc       | nc      | 0.0001    | 0.01    | 0.011   | 0.00008   | 0.0002  | 0.01   | 0.0002 | 0.00019  | 0.002   |
| R359                                                      | R359-01   | mafic volcanic | 543706  | 6983412  | < 0.001 | 0.47    | 0.002   | 0.0008    | 3.8     | 0.0005             | 0.00003            | < 0.0002 | < 0.001 | < 0.00001 | 0.01    | 0.004   | < 0.00002 | 0.0001  | 0.02   | 0.0002 | 0.00004  | < 0.001 |
| R359                                                      | R359-02   | mafic volcanic | 543767  | 6983412  | < 0.001 | 0.59    | 0.001   | 0.0007    | 4.0     | 0.0003             | 0.00003            | < 0.0002 | < 0.001 | < 0.00001 | 0.01    | 0.002   | < 0.00002 | 0.0002  | 0.02   | 0.0002 | 0.00002  | 0.002   |
| R359                                                      | R359-03   | mafic volcanic | 543767  | 6983384  | < 0.001 | 0.56    | 0.002   | 0.0002    | 3.8     | 0.0006             | 0.00007            | < 0.0002 | < 0.001 | < 0.00001 | 0.01    | 0.006   | < 0.00002 | 0.00008 | 0.02   | 0.0004 | 0.00013  | 0.001   |
| MINIMUM                                                   |           |                |         |          | < 0.001 | 0.47    | 0.001   | 0.0002    | 3.8     | 0.0003             | 0.00003            | < 0.0002 | < 0.001 | < 0.00001 | 0.01    | 0.002   | < 0.00002 | 0.00008 | 0.02   | 0.0002 | 0.00002  | < 0.001 |
| MAXIMUM                                                   |           |                |         |          | < 0.001 | 0.59    | 0.002   | 0.0008    | 4.0     | 0.0006             | 0.00007            | < 0.0002 | < 0.001 | < 0.00001 | 0.01    | 0.006   | < 0.00002 | 0.0002  | 0.02   | 0.0004 | 0.00013  | 0.002   |
| MEDIAN                                                    |           |                |         |          | nc      | 0.56    | 0.002   | 0.0007    | 3.8     | 0.0005             | 0.00003            | nc       | nc      | nc        | 0.01    | 0.004   | nc        | 0.0001  | 0.02   | 0.0002 | 0.00004  | nc      |
| AVERAGE                                                   |           |                |         |          | nc      | 0.54    | 0.001   | 0.0005    | 3.8     | 0.0005             | 0.00004            | nc       | nc      | nc        | 0.01    | 0.004   | nc        | 0.0001  | 0.02   | 0.0002 | 0.00006  | nc      |
| STANDARD DEVIATION                                        |           |                |         |          | nc      | 0.06    | 0.000   | 0.0003    | 0.11    | 0.0002             | 0.00002            | nc       | nc      | nc        | 0.00    | 0.002   | nc        | 0.00004 | 0.00   | 0.0001 | 0.00006  | nc      |
| 75TH PERCENTILE                                           |           |                |         |          | nc      | 0.58    | 0.002   | 0.0007    | 3.9     | 0.0006             | 0.00005            | nc       | nc      | nc        | 0.01    | 0.005   | nc        | 0.0001  | 0.02   | 0.0003 | 0.00008  | nc      |
| T041                                                      | T041-01   | mafic volcanic | 547825  | 6978093  | 0.002   | 0.93    | 0.002   | 0.008     | 3.8     | 0.0009             | 0.00004            | < 0.0002 | < 0.001 | < 0.00001 | 0.04    | 0.006   | < 0.00002 | 0.00001 | 0.02   | 0.0005 | 0.00002  | < 0.001 |
| T041                                                      | T041-02   | mafic volcanic | 547781  | 6978126  | 0.002   | 0.89    | 0.002   | 0.002     | 3.1     | 0.0009             | 0.00002            | < 0.0002 | < 0.001 | < 0.00001 | 0.01    | 0.006   | < 0.00002 | 0.00007 | 0.02   | 0.0019 | 0.00003  | 0.001   |
| T041                                                      | T041-03   | mafic volcanic | 547737  | 6978155  | < 0.001 | 1.2     | 0.005   | 0.003     | 3.0     | 0.004              | 0.00007            | < 0.0002 | < 0.001 | < 0.00001 | 0.01    | 0.009   | < 0.00002 | 0.00001 | 0.02   | 0.0025 | 0.00009  | 0.001   |
| T041                                                      | T041-04   | mafic volcanic | 547689  | 6978210  | < 0.001 | 2.1     | 0.013   | 0.02      | 2.6     | 0.004              | 0.00025            | < 0.0002 | < 0.001 | < 0.00001 | 0.01    | 0.019   | < 0.00002 | 0.00005 | 0.00   | 0.0017 | 0.00013  | 0.004   |
| T041                                                      | T041-05   | mafic volcanic | 547652  | 6978231  | 0.002   | 2.3     | 0.003   | 0.003     | 3.6     | 0.007              | < 0.00002          | < 0.0002 | < 0.001 | < 0.00001 | 0.03    | 0.003   | < 0.00002 | 0.0002  | 0.01   | 0.0033 | 0.00004  | < 0.001 |
| MINIMUM                                                   |           |                |         |          | < 0.001 | 0.89    | 0.002   | 0.002     | 2.6     | 0.0009             | < 0.00002          | < 0.0002 | < 0.001 | < 0.00001 | 0.01    | 0.003   | < 0.00002 | 0.00001 | 0.00   | 0.0005 | 0.00002  | < 0.001 |
| MAXIMUM                                                   |           |                |         |          | 0.002   | 2.3     | 0.013   | 0.016     | 3.8     | 0.007              | 0.00025            | < 0.0002 | < 0.001 | < 0.00001 | 0.04    | 0.019   | < 0.00002 | 0.0002  | 0.02   | 0.0033 | 0.00013  | 0.004   |
| MEDIAN                                                    |           |                |         |          | 0.002   | 1.2     | 0.003   | 0.003     | 3.1     | 0.004              | 0.00004            | nc       | nc      | nc        | 0.01    | 0.006   | nc        | 0.00007 | 0.02   | 0.0019 | 0.00004  | 0.001   |
| AVERAGE                                                   |           |                |         |          | 0.002   | 1.5     | 0.005   | 0.006     | 3.2     | 0.003              | 0.00008            | nc       | nc      | nc        | 0.02    | 0.009   | nc        | 0.00008 | 0.02   | 0.0020 | 0.00006  | 0.002   |
| STANDARD DEVIATION                                        |           |                |         |          | 0.001   | 0.67    | 0.005   | 0.006     | 0.49    | 0.002              | 0.00010            | nc       | nc      | nc        | 0.01    | 0.006   | nc        | 0.00006 | 0.01   | 0.0010 | 0.00005  | 0.001   |
| 75TH PERCENTILE                                           |           |                |         |          | 0.002   | 2.1     | 0.005   | 0.008     | 3.6     | 0.004              | 0.00007            | nc       | nc      | nc        | 0.03    | 0.009   | nc        | 0.0001  | 0.02   | 0.0025 | 0.00009  | 0.001   |
| T043                                                      | T43-01    | mafic volcanic | 547437  | 6976944  | < 0.001 | 0.94    | 0.002   | 0.0002    | 3.4     | 0.002              | 0.00003            | < 0.0002 | < 0.001 | < 0.00001 | 0.01    | 0.004   | < 0.00002 | 0.0006  | 0.02   | 0.0008 | 0.00007  | < 0.001 |
| T043                                                      | T043-02   | mafic volcanic | 547500  | 6976956  | 0.004   | 1.9     | 0.002   | 0.0002    | 3.2     | 0.015              | 0.00002            | < 0.0002 | < 0.001 | < 0.00001 | 0.02    | 0.003   | < 0.00002 | 0.0007  | 0.02   | 0.0013 | 0.00015  | < 0.001 |
| T043                                                      | T043-03   | mafic volcanic | 547642  | 6976980  | 0.001   | 0.53    | 0.001   | 0.0001    | 2.9     | 0.0008             | < 0.00002          | < 0.0002 | < 0.001 | < 0.00001 | 0.01    | 0.001   | < 0.00002 | 0.00002 | 0.03   | 0.0005 | 0.000008 | 0.002   |
| T043                                                      | T043-04   | mafic volcanic | 547585  | 6976964  | 0.001   | 1.4     | 0.003   | 0.007     | 2.0     | 0.014              | 0.00024            | 0.0007   | < 0.001 | < 0.00001 | 0.02    | 0.003   | < 0.00002 | 0.00006 | 0.02   | 0.0173 | 0.00003  | 0.005   |
| T043                                                      | T043-05   | mafic volcanic | 547537  | 6976956  | 0.001   | 0.56    | 0.001   | 0.003     | 4.0     | 0.0008             | < 0.00002          | < 0.0002 | < 0.001 | < 0.00001 | 0.01    | 0.001   | 0.00002   | 0.0001  | 0.01   | 0.0003 | 0.00001  | < 0.001 |
| MINIMUM                                                   |           |                |         |          | < 0.001 | 0.5     | 0.001   | 0.0001    | 2.0     | 0.0008             | < 0.00002          | < 0.0002 | < 0.001 | < 0.00001 | 0.01    | 0.001   | < 0.00002 | 0.00002 | 0.01   | 0.0003 | 0.000008 | < 0.001 |
| MAXIMUM                                                   |           |                |         |          | 0.004   | 1.9     | 0.003   | 0.007     | 4.0     | 0.015              | 0.00024            | 0.0007   | < 0.001 | < 0.00001 | 0.02    | 0.004   | 0.00002   | 0.0007  | 0.03   | 0.0173 | 0.00015  | 0.005   |
| MEDIAN                                                    |           |                |         |          | 0.001   | 0.94    | 0.002   | 0.0002    | 3.2     | 0.002              | 0.00002            | nc       | nc      | nc        | 0.01    | 0.003   | nc        | 0.00010 | 0.02   | 0.0008 | 0.00003  | nc      |
| AVERAGE                                                   |           |                |         |          | 0.002   | 1.07    | 0.002   | 0.002     | 3.1     | 0.007              | 0.00007            | nc       | nc      | nc        | 0.01    | 0.002   | nc        | 0.0003  | 0.02   | 0.0040 | 0.00005  | nc      |
| STANDARD DEVIATION                                        |           |                |         |          | 0.001   | 0.59    | 0.001   | 0.003     | 0.74    | 0.007              | 0.00010            | nc       | nc      | nc        | 0.00    | 0.001   | nc        | 0.0003  | 0.01   | 0.0074 | 0.00006  | nc      |
| 75TH PERCENTILE                                           |           |                |         |          | 0.001   | 1.4     | 0.002   | 0.003     | 3.4     | 0.014              | 0.00003            | nc       | nc      | nc        | 0.02    | 0.003   | nc        | 0.0006  | 0.02   | 0.0013 | 0.00007  | nc      |
| T046                                                      | T046-01   | mafic volcanic | 552923  | 6981408  | < 0.001 | 1.3     | 0.001   | 0.0001    | 3.7     | 0.005              | < 0.00002          | 0.0003   | < 0.001 | < 0.00001 | 0.02    | 0.001   | < 0.00002 | 0.00001 | 0.02   | 0.0003 | 0.00001  | 0.001   |
| T046                                                      | T046-02   | mafic volcanic | 552872  | 6981426  | < 0.001 |         |         |           |         |                    |                    |          |         |           |         |         |           |         |        |        |          |         |

Appendix A.3  
SFE Leachate Results - Esker (Till) Material for Road Construction  
Meliadine Project, Nunavut  
Agnico-Eagle Mines Ltd

| CCME (CEQG) (freshwater aquatic life) <sup>1</sup> (mg/L) |           |             |         |          | 6.5 - 9.0       |          | 0.0001                           | 0.005 - 0.1 <sup>1</sup> | 0.005   |         |        |           | 0.000017 <sup>1</sup> |         | 0.001 <sup>1</sup> | 0.002 <sup>4</sup> | 0.3      |         |         |        |         |         |
|-----------------------------------------------------------|-----------|-------------|---------|----------|-----------------|----------|----------------------------------|--------------------------|---------|---------|--------|-----------|-----------------------|---------|--------------------|--------------------|----------|---------|---------|--------|---------|---------|
| Metal Mine Effluent Regulation (MMER) <sup>2</sup> (mg/L) |           |             |         |          | 6.0 - 9.5       |          |                                  |                          | 0.5     |         |        |           |                       |         |                    |                    |          |         |         |        |         |         |
| PROPOSED LOCATION                                         | SAMPLE ID | SAMPLE TYPE | EASTING | NORTHING | Initial pH      | Final pH | Hardness mg CaCO <sub>3</sub> /L | Ag mg/L                  | Al mg/L | As mg/L | B mg/L | Be mg/L   | Bi mg/L               | Ca mg/L | Cd mg/L            | Co mg/L            | Cr mg/L  | Cu mg/L | Fe mg/L | K mg/L | Li mg/L | Mg mg/L |
| B01A                                                      | B1A-01    | Till        | 539731  | 6988294  | 6.1             | 6.7      | 6.8                              | 0.00003                  | 0.28    | 0.006   | 0.005  | < 0.00002 | < 0.00001             | 1.6     | 0.00001            | 0.0020             | 0.0007   | 0.004   | 0.34    | 4.1    | < 0.001 | 0.65    |
| B01A                                                      | B1A-02    | Till        | 539677  | 6988318  | 5.9             | 6.4      | 18                               | 0.00007                  | 0.30    | 0.004   | 0.005  | < 0.00002 | < 0.00001             | 4.4     | 0.00002            | 0.0021             | 0.0008   | 0.004   | 0.34    | 4.7    | 0.002   | 1.64    |
| B01A                                                      | B1A-03    | Till        | 539620  | 6988359  | 5.7             | 7.1      | 0.72                             | 0.00003                  | 0.30    | 0.008   | 0.004  | < 0.00002 | < 0.00001             | 0.18    | 0.00002            | 0.0016             | 0.0009   | 0.005   | 0.35    | 1.9    | < 0.001 | 0.07    |
|                                                           |           |             |         |          | 5.7             | 6.4      | 0.72                             | 0.00003                  | 0.28    | 0.004   | 0.004  | < 0.00002 | < 0.00001             | 0.18    | 0.00001            | 0.0016             | 0.0007   | 0.004   | 0.34    | 1.9    | < 0.001 | 0.07    |
|                                                           |           |             |         |          | 6.1             | 7.1      | 18                               | 0.00007                  | 0.30    | 0.008   | 0.005  | < 0.00002 | < 0.00001             | 4.4     | 0.00002            | 0.0021             | 0.0009   | 0.005   | 0.35    | 4.7    | 0.002   | 1.64    |
|                                                           |           |             |         |          | 5.9             | 6.7      | 6.8                              | 0.00003                  | 0.30    | 0.006   | 0.005  | < 0.00002 | < 0.00001             | 1.6     | 0.00002            | 0.0020             | 0.0008   | 0.004   | 0.34    | 4.1    | nc      | 0.65    |
|                                                           |           |             |         |          | 5.9             | 6.6      | 8.4                              | 0.00004                  | 0.29    | 0.006   | 0.005  | nc        | nc                    | 2.1     | 0.00002            | 0.0019             | 0.0008   | 0.004   | 0.34    | 3.6    | nc      | 0.79    |
|                                                           |           |             |         |          | 0.22            | nc       | 8.6                              | 0.00002                  | 0.01    | 0.002   | 0.0004 | nc        | nc                    | 2.1     | 0.00003            | 0.0003             | 0.0001   | 0.000   | 0.01    | 1.5    | nc      | 0.80    |
|                                                           |           |             |         |          | 75TH PERCENTILE | 6.0      | 12                               | 0.00005                  | 0.30    | 0.007   | 0.005  | nc        | nc                    | 3.0     | 0.00002            | 0.0020             | 0.0009   | 0.004   | 0.35    | 4.4    | nc      | 1.15    |
| B03                                                       | B3-01     | Till        | 539344  | 6987509  | 7.7             | 8.2      | 36                               | 0.00002                  | 0.11    | 0.017   | 0.003  | < 0.00002 | < 0.00001             | 13      | 0.000009           | 0.0003             | < 0.0005 | 0.009   | 0.08    | 1.9    | 0.001   | 0.93    |
| B03                                                       | B3-02     | Till        | 539323  | 6987523  | 8.5             | 8.7      | 34                               | 0.00002                  | 0.17    | 0.011   | 0.003  | < 0.00002 | < 0.00001             | 12      | < 0.000003         | 0.0002             | < 0.0005 | 0.010   | 0.07    | 2.0    | 0.002   | 0.79    |
| B03                                                       | B3-03     | Till        | 539340  | 6987549  | 8.9             | 8.8      | 36                               | 0.00002                  | 0.16    | 0.030   | 0.002  | < 0.00002 | < 0.00001             | 13      | 0.000004           | 0.0005             | < 0.0005 | 0.024   | 0.06    | 2.4    | 0.002   | 0.99    |
|                                                           |           |             |         |          | 7.7             | 8.2      | 34                               | 0.00002                  | 0.11    | 0.011   | 0.002  | < 0.00002 | < 0.00001             | 12      | < 0.000003         | 0.0002             | < 0.0005 | 0.009   | 0.06    | 1.9    | 0.001   | 0.79    |
|                                                           |           |             |         |          | 8.9             | 8.8      | 36                               | 0.00002                  | 0.17    | 0.030   | 0.003  | < 0.00002 | < 0.00001             | 13      | 0.000009           | 0.0005             | < 0.0005 | 0.024   | 0.08    | 2.4    | 0.002   | 0.99    |
|                                                           |           |             |         |          | 8.5             | 8.7      | 36                               | 0.00002                  | 0.16    | 0.017   | 0.003  | nc        | nc                    | 13      | nc                 | 0.0003             | nc       | 0.010   | 0.07    | 2.0    | 0.002   | 0.93    |
|                                                           |           |             |         |          | 8.4             | 8.5      | 35                               | 0.00002                  | 0.15    | 0.019   | 0.002  | nc        | nc                    | 13      | nc                 | 0.0003             | nc       | 0.014   | 0.07    | 2.1    | 0.002   | 0.90    |
|                                                           |           |             |         |          | 0.58            | nc       | 1.3                              | 0.00000                  | 0.03    | 0.010   | 0.0005 | nc        | nc                    | 0.35    | nc                 | 0.0001             | nc       | 0.008   | 0.01    | 0.3    | 0.001   | 0.11    |
|                                                           |           |             |         |          | 75TH PERCENTILE | 8.7      | nc                               | 0.00002                  | 0.17    | 0.023   | 0.003  | nc        | nc                    | 13      | nc                 | 0.0004             | nc       | 0.017   | 0.08    | 2.2    | 0.002   | 0.96    |
| B05                                                       | B5-01     | Till        | 540880  | 6985863  | 5.8             | 6.3      | 1.2                              | 0.00006                  | 0.33    | 0.004   | 0.004  | 0.00002   | 0.00006               | 0.23    | 0.00003            | 0.0011             | 0.0007   | 0.003   | 0.24    | 1.4    | < 0.001 | 0.16    |
| B05                                                       | B5-02     | Till        | 540833  | 6985831  | 6.9             | 7.2      | 8.1                              | 0.00005                  | 0.18    | 0.007   | 0.003  | < 0.00002 | 0.00004               | 2.5     | 0.00003            | 0.0017             | 0.0006   | 0.032   | 0.30    | 1.0    | < 0.001 | 0.46    |
| B05                                                       | B5-03     | Till        | 540891  | 6985825  | 7.1             | 7.4      | 55                               | 0.00005                  | 0.10    | 0.006   | 0.011  | < 0.00002 | 0.00001               | 16      | 0.00001            | 0.0011             | < 0.0005 | 0.015   | 0.13    | 5.6    | < 0.001 | 3.64    |
|                                                           |           |             |         |          | 5.8             | 6.3      | 1.2                              | 0.00005                  | 0.10    | 0.004   | 0.003  | < 0.00002 | 0.00001               | 0.23    | 0.00001            | 0.0011             | < 0.0005 | 0.003   | 0.13    | 1.0    | < 0.001 | 0.16    |
|                                                           |           |             |         |          | 7.1             | 7.4      | 55                               | 0.00006                  | 0.33    | 0.007   | 0.011  | 0.00002   | 0.00006               | 16      | 0.00003            | 0.0017             | 0.0007   | 0.032   | 0.30    | 5.6    | < 0.001 | 3.64    |
|                                                           |           |             |         |          | 6.9             | 7.2      | 8.1                              | 0.00005                  | 0.18    | 0.006   | 0.004  | nc        | 0.00004               | 2.5     | 0.00003            | 0.0011             | nc       | 0.015   | 0.24    | 1.4    | nc      | 0.46    |
|                                                           |           |             |         |          | 6.6             | 6.7      | 21                               | 0.00005                  | 0.20    | 0.006   | 0.006  | nc        | 0.00004               | 6.2     | 0.00002            | 0.0013             | nc       | 0.017   | 0.22    | 2.6    | nc      | 1.42    |
|                                                           |           |             |         |          | 0.72            | nc       | 29                               | 0.00001                  | 0.12    | 0.002   | 0.004  | nc        | 0.00003               | 8.4     | 0.00009            | 0.0003             | nc       | 0.015   | 0.09    | 2.5    | nc      | 1.93    |
|                                                           |           |             |         |          | 75TH PERCENTILE | 7.0      | nc                               | 0.00006                  | 0.26    | 0.007   | 0.007  | nc        | 0.00005               | 9.1     | 0.00003            | 0.0014             | nc       | 0.023   | 0.27    | 3.5    | nc      | 2.05    |
| B06A                                                      | B6A-01    | Till        | 542237  | 6984595  | 6.4             | 6.9      | 2.1                              | 0.00002                  | 0.12    | 0.001   | 0.002  | < 0.00002 | < 0.00001             | 0.46    | < 0.00003          | 0.0005             | < 0.0005 | 0.003   | 0.12    | 1.2    | < 0.001 | 0.24    |
| B06A                                                      | B6A-02    | Till        | 542187  | 6984598  | 5.9             | 6.3      | 0.80                             | 0.00014                  | 0.14    | 0.001   | 0.002  | < 0.00002 | 0.00012               | 0.10    | 0.00011            | 0.0006             | < 0.0005 | 0.002   | 0.08    | 0.4    | < 0.001 | 0.13    |
| B06A                                                      | B6A-03    | Till        | 542212  | 6984637  | 6.1             | 7.2      | 0.25                             | 0.00007                  | 0.08    | 0.001   | 0.003  | < 0.00002 | 0.00004               | 0.05    | 0.00003            | 0.0002             | < 0.0005 | 0.003   | 0.07    | 0.8    | < 0.001 | 0.03    |
|                                                           |           |             |         |          | 5.9             | 6.3      | 0.25                             | 0.00002                  | 0.08    | 0.001   | 0.002  | < 0.00002 | < 0.00001             | 0.05    | < 0.00003          | 0.0002             | < 0.0005 | 0.002   | 0.07    | 0.4    | < 0.001 | 0.03    |
|                                                           |           |             |         |          | 6.4             | 7.2      | 2.1                              | 0.00014                  | 0.14    | 0.001   | 0.003  | < 0.00002 | 0.00012               | 0.46    | < 0.00011          | 0.0006             | < 0.0005 | 0.003   | 0.12    | 1.2    | < 0.001 | 0.24    |
|                                                           |           |             |         |          | 6.1             | 6.9      | 0.80                             | 0.00007                  | 0.12    | 0.001   | 0.002  | nc        | nc                    | 0.10    | nc                 | 0.0005             | nc       | 0.003   | 0.08    | 0.8    | nc      | 0.13    |
|                                                           |           |             |         |          | 6.1             | 6.6      | 1.1                              | 0.00008                  | 0.11    | 0.001   | 0.002  | nc        | nc                    | 0.20    | nc                 | 0.0004             | nc       | 0.003   | 0.09    | 0.8    | nc      | 0.13    |
|                                                           |           |             |         |          | 0.23            | nc       | 1.0                              | 0.00006                  | 0.03    | 0.0002  | 0.003  | nc        | nc                    | 0.22    | nc                 | 0.0002             | nc       | 0.001   | 0.03    | 0.4    | nc      | 0.10    |
|                                                           |           |             |         |          | 75TH PERCENTILE | 6.3      | nc                               | 0.00011                  | 0.13    | 0.001   | 0.002  | nc        | nc                    | 0.28    | nc                 | 0.0005             | nc       | 0.003   | 0.10    | 1.0    | nc      | 0.18    |
| B08                                                       | B8-01     | Till        | 543567  | 6983989  | 5.9             | 6.6      | 0.6                              | 0.00003                  | 0.34    | 0.001   | 0.004  | < 0.00002 | < 0.00001             | 0.15    | 0.000006           | 0.0009             | 0.0009   | 0.005   | 0.30    | 1.4    | < 0.001 | 0.06    |
| B08                                                       | B8-02     | Till        | 543588  | 6983993  | 6.4             | 6.5      | 8.6                              | 0.00004                  | 0.29    | 0.032   | 0.005  | < 0.00002 | < 0.00001             | 2.2     | 0.000010           | 0.0012             | 0.0007   | 0.005   | 0.26    | 1.3    | < 0.001 | 0.74    |
| B08                                                       | B8-03     | Till        | 543569  | 6984023  | 6.0             | 6.9      | 2.1                              | 0.00004                  | 0.42    | 0.003   | 0.003  | < 0.00002 | < 0.00001             | 0.58    | 0.000013           | 0.0019             | 0.0011   | 0.013   | 0.42    | 2.1    | < 0.001 | 0.16    |
|                                                           |           |             |         |          | 5.9             | 6.5      | 0.6                              | 0.00003                  | 0.29    | 0.001   | 0.003  | < 0.00002 | < 0.00001             | 0.15    | 0.000006           | 0.0009             | 0.0007   | 0.005   | 0.26    | 1.3    | < 0.001 | 0.06    |
|                                                           |           |             |         |          | 6.4             | 6.9      | 8.6                              | 0.00004                  | 0.42    | 0.032   | 0.005  | < 0.00002 | < 0.00001             | 2.2     | 0.000013           | 0.0019             | 0.0011   | 0.013   | 0.42    | 2.1    | < 0.001 | 0.74    |
|                                                           |           |             |         |          | 6.0             | 6.6      | 2.1                              | 0.00004                  | 0.34    | 0.003   | 0.004  | nc        | nc                    | 0.58    | 0.000010           | 0.0012             | 0.0009   | 0.005   | 0.30    | 1.4    | nc      | 0.16    |
|                                                           |           |             |         |          | 6.1             | 6.6      | 3.8                              | 0.00004                  | 0.35    | 0.012   | 0.004  | nc        | nc                    | 1.0     | 0.000010           | 0.0013             | 0.0009   | 0.008   | 0.33    | 1.6    | nc      | 0.32    |
|                                                           |           |             |         |          | 0.24            | nc       | 4.2                              | 0.00001                  | 0.07    | 0.017   | 0.001  | nc        | nc                    | 1.1     | 0.000004           | 0.0005             | 0.0002   | 0.005   | 0.08    | 0.5    | nc      | 0.37    |
|                                                           |           |             |         |          | 75TH PERCENTILE | 6.2      | nc                               | 0.00004                  | 0.38    | 0.017   | 0.005  | nc        | nc                    | 1.4     | 0.000012           | 0.0016             | 0.001    | 0.009   | 0.36    | 1.8    | nc      | 0.45    |
| B10                                                       | B10-01    | Till        | 545525  | 6980771  | 5.8             | 7.2      | 0.29                             | 0.00004                  | 0.31    | 0.001   | 0.003  | < 0.00002 | < 0.00001             | 0.05    | 0.000005           | 0.0003             | 0.0007   | 0.002   | 0.18    | 1.0    | < 0.001 | 0.04    |
| B10                                                       | B10-02    | Till        | 545560  | 6980764  | 6.0             | 7.7      | 0.47                             | 0.00002                  | 0.33    | 0.004   | 0.004  | < 0.00002 | < 0.00001             | 0.11    | 0.000006           | 0.0005             | < 0.0005 | 0.004   | 0.20    | 1.0    | < 0.001 | 0.05    |
| B10                                                       | B10-03    | Till        | 545495  | 6980798  | 6.4             | 6.8      | 2.5                              | 0.00006                  | 0.29    | 0.001   | 0.004  | < 0.00002 | < 0.00001             | 0.53    | 0.00003            | 0.0005             | < 0.0005 | 0.002   | 0.20    | 2.7    | < 0.001 | 0.27    |
|                                                           |           |             |         |          | 5.8             | 6.8      | 0.29                             | 0.00002                  | 0.29    | 0.001   | 0.003  | < 0.00002 | < 0.00001             | 0.05    | 0.000005           | 0.0003             | < 0.0005 | 0.002   | 0.18    | 1.0    | < 0.001 | 0.04    |
|                                                           |           |             |         |          | 6.4             | 7.7      | 2.5                              | 0.00006                  | 0.33    | 0.004   | 0.004  | < 0.00002 | 0.00001               | 0.53    | 0.00003            | 0.0005             | 0.0007   | 0.004   | 0.20    | 2.7    | < 0.001 | 0.27    |
|                                                           |           |             |         |          | 6.0             | 7.2      | 0.5                              | 0.00004                  | 0.31    | 0.001   | 0.004  | nc        | nc                    | 0.11    | 0.000006           | 0.0005             | nc       | 0.002   | 0.20    | 1.0    | nc      | 0.05    |
|                                                           |           |             |         |          | 6.0             | 7.1      | 1.1                              | 0.00004                  | 0.31    | 0.002   | 0.004  | nc        | nc                    | 0.23    | 0.00001            | 0.0004             | nc       | 0.003   | 0.19    | 1.5    | nc      | 0.12    |
|                                                           |           |             |         |          | 0.28            | nc       | 1.2                              | 0.00002                  | 0.02    | 0.001   | 0.001  | nc        | nc                    | 0.26    | 0.00001            | 0.0001             | nc       | 0.001   | 0.01    | 1.0    | nc      | 0.13    |
|                                                           |           |             |         |          | 75TH PERCENTILE | 6.2      | nc                               | 0.00005                  | 0.32    | 0.002   | 0.004  | nc        | nc                    | 0.32    | 0.00002            | 0.0005             | nc       | 0.003   | 0.20    | 1.8    | nc      | 0.16    |
| B11                                                       | B11A-1    | Till        | 546670  | 6979248  | 6.0             | 7.2      | 0.58                             | 0.00002                  | 0.44    | 0.001   | 0.004  | < 0.00002 | 0.00004               | 0.12    | 0.000010           | 0.0008             | 0.0008   | 0.004   | 0.28    | 1.5    | < 0.001 | 0.07    |
| B11                                                       | B11A-2    | Till        | 546628  | 6979191  | 5.7             | 6.8      | 0.69                             | 0.00003                  | 0.47    | 0.002   | 0.005  |           |                       |         |                    |                    |          |         |         |        |         |         |

Appendix A.3  
SFE Leachate Results - Esker (Till) Material for Road Construction  
Meladine Project, Nunavut  
Agnico-Eagle Mines Ltd

| CCME (CEQG) (freshwater aquatic life) <sup>1</sup> (mg/L) |           |             |         |          | 0.073   |         | 0.025 <sup>4</sup> | 0.001 <sup>5</sup> |         |          |         |           | 0.0008  |         |           |         | 0.03   |           |        |         |
|-----------------------------------------------------------|-----------|-------------|---------|----------|---------|---------|--------------------|--------------------|---------|----------|---------|-----------|---------|---------|-----------|---------|--------|-----------|--------|---------|
| Metal Mine Effluent Regulation (MMER) <sup>2</sup> (mg/L) |           |             |         |          |         |         | 0.5                | 0.2                |         |          |         |           |         |         |           |         | 0.5    |           |        |         |
| PROPOSED LOCATION                                         | SAMPLE ID | SAMPLE TYPE | EASTING | NORTHING | Mn mg/L | Mo mg/L | Na mg/L            | Ni mg/L            | Pb mg/L | Sb mg/L  | Se mg/L | Sn mg/L   | Sr mg/L | Ti mg/L | Ti mg/L   | U mg/L  | V mg/L | W mg/L    | Y mg/L | Zn mg/L |
| B01A                                                      | B1A-01    | Till        | 539731  | 6988294  | 0.06    | 0.0009  | 4.3                | 0.002              | 0.0003  | < 0.0002 | < 0.001 | < 0.00001 | 0.010   | 0.006   | < 0.00002 | 0.00009 | 0.0007 | < 0.00003 | 0.0002 | 0.002   |
| B01A                                                      | B1A-02    | Till        | 539677  | 6988318  | 0.12    | 0.0005  | 4.3                | 0.003              | 0.0001  | < 0.0002 | < 0.001 | < 0.00001 | 0.022   | 0.005   | < 0.00002 | 0.00005 | 0.0004 | < 0.00003 | 0.0002 | 0.003   |
| B01A                                                      | B1A-03    | Till        | 539620  | 6988359  | 0.02    | 0.0007  | 4.0                | 0.002              | 0.0003  | < 0.0002 | < 0.001 | < 0.00001 | 0.001   | 0.005   | < 0.00002 | 0.00015 | 0.0010 | 0.0001    | 0.0003 | 0.002   |
|                                                           |           |             |         |          | 0.02    | 0.0005  | 4.0                | 0.002              | 0.0001  | < 0.0002 | < 0.001 | < 0.00001 | 0.001   | 0.005   | < 0.00002 | 0.00005 | 0.0004 | < 0.00003 | 0.0002 | 0.002   |
|                                                           |           |             |         |          | 0.12    | 0.0009  | 4.3                | 0.003              | 0.0003  | < 0.0002 | < 0.001 | < 0.00001 | 0.022   | 0.006   | < 0.00002 | 0.00015 | 0.0010 | 0.0001    | 0.0003 | 0.003   |
|                                                           |           |             |         |          | 0.06    | 0.0007  | 4.3                | 0.002              | 0.0003  | nc       | nc      | nc        | 0.010   | 0.005   | nc        | 0.00009 | 0.0007 | nc        | 0.0002 | 0.002   |
|                                                           |           |             |         |          | 0.07    | 0.0007  | 4.2                | 0.003              | 0.0002  | nc       | nc      | nc        | 0.011   | 0.005   | nc        | 0.00009 | 0.0007 | nc        | 0.0003 | 0.002   |
|                                                           |           |             |         |          | 0.05    | 0.0002  | 0.2                | 0.001              | 0.0001  | nc       | nc      | nc        | 0.010   | 0.000   | nc        | 0.00005 | 0.0003 | nc        | 0.0001 | 0.001   |
|                                                           |           |             |         |          | 0.09    | 0.0008  | 4.3                | 0.003              | 0.0003  | nc       | nc      | nc        | 0.016   | 0.006   | nc        | 0.00012 | 0.0008 | nc        | 0.0003 | 0.003   |
| B03                                                       | B3-01     | Till        | 539344  | 6987509  | 0.04    | 0.0138  | 0.7                | 0.002              | 0.0001  | 0.0003   | < 0.001 | < 0.00001 | 0.039   | 0.002   | < 0.00002 | 0.00104 | 0.0005 | 0.0002    | 0.0001 | 0.001   |
| B03                                                       | B3-02     | Till        | 539323  | 6987523  | 0.003   | 0.0039  | 1.3                | 0.002              | 0.0001  | 0.0002   | < 0.001 | < 0.00001 | 0.042   | 0.002   | < 0.00002 | 0.00058 | 0.0004 | 0.0002    | 0.0001 | < 0.001 |
| B03                                                       | B3-03     | Till        | 539340  | 6987549  | 0.02    | 0.0091  | 1.4                | 0.004              | 0.0001  | 0.0003   | < 0.001 | < 0.00001 | 0.030   | 0.001   | < 0.00002 | 0.00048 | 0.0006 | 0.0002    | 0.0001 | 0.001   |
|                                                           |           |             |         |          | 0.003   | 0.0039  | 0.7                | 0.002              | 0.0001  | 0.0002   | < 0.001 | < 0.00001 | 0.030   | 0.001   | < 0.00002 | 0.00048 | 0.0006 | 0.0002    | 0.0001 | < 0.001 |
|                                                           |           |             |         |          | 0.04    | 0.0138  | 1.4                | 0.004              | 0.0001  | 0.0003   | < 0.001 | < 0.00001 | 0.042   | 0.002   | < 0.00002 | 0.00104 | 0.0006 | 0.0002    | 0.0001 | 0.001   |
|                                                           |           |             |         |          | 0.02    | 0.0091  | 1.3                | 0.002              | 0.0001  | 0.0003   | nc      | nc        | 0.039   | 0.002   | nc        | 0.00058 | 0.0005 | 0.0002    | 0.0001 | nc      |
|                                                           |           |             |         |          | 0.02    | 0.0089  | 1.1                | 0.003              | 0.0001  | 0.0003   | nc      | nc        | 0.037   | 0.002   | nc        | 0.00070 | 0.0005 | 0.0002    | 0.0001 | nc      |
|                                                           |           |             |         |          | 0.02    | 0.0049  | 0.4                | 0.001              | 0.0000  | 0.0001   | nc      | nc        | 0.006   | 0.001   | nc        | 0.00030 | 0.0001 | 0.0000    | 0.0000 | nc      |
|                                                           |           |             |         |          | 0.03    | 0.0114  | 1.4                | 0.003              | 0.0001  | 0.0003   | nc      | nc        | 0.040   | 0.002   | nc        | 0.00081 | 0.0005 | 0.0002    | 0.0001 | nc      |
| B05                                                       | B5-01     | Till        | 540880  | 6985863  | 0.03    | 0.0003  | 1.7                | 0.001              | 0.0002  | 0.0005   | < 0.001 | 0.00003   | 0.002   | 0.004   | 0.00004   | 0.00010 | 0.0004 | < 0.00003 | 0.0003 | 0.002   |
| B05                                                       | B5-02     | Till        | 540833  | 6985831  | 0.12    | 0.0017  | 1.3                | 0.013              | 0.002   | 0.0004   | < 0.001 | < 0.00001 | 0.007   | 0.004   | 0.00002   | 0.00025 | 0.0004 | < 0.00003 | 0.0024 | 0.002   |
| B05                                                       | B5-03     | Till        | 540891  | 6985825  | 0.06    | 0.0012  | 2.4                | 0.006              | 0.0001  | 0.0002   | < 0.001 | < 0.00001 | 0.050   | 0.002   | < 0.00002 | 0.00009 | 0.0006 | 0.0001    | 0.0004 | 0.002   |
|                                                           |           |             |         |          | 0.03    | 0.0003  | 1.3                | 0.001              | 0.0001  | 0.0002   | < 0.001 | < 0.00001 | 0.002   | 0.002   | < 0.00002 | 0.00009 | 0.0004 | < 0.00003 | 0.0003 | 0.002   |
|                                                           |           |             |         |          | 0.12    | 0.0017  | 2.4                | 0.013              | 0.002   | 0.0005   | < 0.001 | 0.00003   | 0.050   | 0.004   | 0.00004   | 0.00025 | 0.0006 | 0.0001    | 0.0024 | 0.002   |
|                                                           |           |             |         |          | 0.06    | 0.0012  | 1.7                | 0.006              | 0.0002  | 0.0004   | < 0.001 | 0.00003   | 0.007   | 0.004   | nc        | 0.00010 | 0.0004 | nc        | 0.0004 | 0.002   |
|                                                           |           |             |         |          | 0.07    | 0.0010  | 1.8                | 0.007              | 0.0002  | 0.0004   | nc      | nc        | 0.019   | 0.003   | nc        | 0.00015 | 0.0005 | nc        | 0.0010 | 0.002   |
|                                                           |           |             |         |          | 0.05    | 0.0007  | 0.6                | 0.006              | 0.0001  | 0.0002   | nc      | nc        | 0.026   | 0.001   | nc        | 0.00009 | 0.0001 | nc        | 0.0012 | 0.000   |
|                                                           |           |             |         |          | 0.09    | 0.0014  | 2.1                | 0.009              | 0.0002  | 0.0005   | nc      | nc        | 0.028   | 0.004   | nc        | 0.00018 | 0.0005 | nc        | 0.0014 | 0.002   |
| B06A                                                      | B6A-01    | Till        | 542237  | 6984595  | 0.02    | 0.0004  | 0.8                | 0.001              | 0.0001  | < 0.0002 | < 0.001 | < 0.00001 | 0.002   | 0.002   | < 0.00002 | 0.00005 | 0.0004 | < 0.00003 | 0.0002 | < 0.001 |
| B06A                                                      | B6A-02    | Till        | 542187  | 6984598  | 0.02    | 0.0007  | 0.6                | 0.001              | 0.0002  | < 0.0002 | < 0.001 | 0.00038   | 0.001   | 0.002   | 0.0001    | 0.00017 | 0.0003 | 0.0004    | 0.0004 | < 0.001 |
| B06A                                                      | B6A-03    | Till        | 542212  | 6984637  | 0.005   | 0.0012  | 1.5                | 0.001              | 0.0001  | < 0.0002 | < 0.001 | 0.00005   | 0.015   | 0.002   | 0.0001    | 0.00008 | 0.0003 | 0.0001    | 0.0003 | 0.001   |
|                                                           |           |             |         |          | 0.005   | 0.0004  | 0.6                | 0.001              | 0.0001  | < 0.0002 | < 0.001 | < 0.00001 | 0.001   | 0.002   | < 0.00002 | 0.00005 | 0.0003 | < 0.00003 | 0.0002 | < 0.001 |
|                                                           |           |             |         |          | 0.02    | 0.0012  | 1.5                | 0.001              | 0.0002  | 0.0002   | < 0.001 | 0.00038   | 0.015   | 0.002   | 0.0001    | 0.00017 | 0.0004 | 0.0004    | 0.0004 | 0.001   |
|                                                           |           |             |         |          | 0.02    | 0.0007  | 0.8                | 0.001              | 0.0001  | nc       | nc      | nc        | 0.002   | 0.002   | nc        | 0.00008 | 0.0003 | nc        | 0.0003 | nc      |
|                                                           |           |             |         |          | 0.02    | 0.0008  | 1.0                | 0.001              | 0.0001  | nc       | nc      | nc        | 0.006   | 0.002   | nc        | 0.00010 | 0.0004 | nc        | 0.0003 | nc      |
|                                                           |           |             |         |          | 0.01    | 0.0004  | 0.5                | 0.000              | 0.0001  | nc       | nc      | nc        | 0.008   | 0.000   | nc        | 0.00006 | 0.0000 | nc        | 0.0001 | nc      |
|                                                           |           |             |         |          | 0.02    | 0.0009  | 1.2                | 0.001              | 0.0001  | nc       | nc      | nc        | 0.009   | 0.002   | nc        | 0.00013 | 0.0004 | nc        | 0.0004 | nc      |
| B08                                                       | B8-01     | Till        | 543567  | 6983989  | 0.01    | 0.0004  | 2.2                | 0.002              | 0.0002  | < 0.0002 | < 0.001 | < 0.00001 | 0.001   | 0.005   | < 0.00002 | 0.00011 | 0.0006 | < 0.00003 | 0.0004 | 0.003   |
| B08                                                       | B8-02     | Till        | 543588  | 6983993  | 0.03    | 0.0003  | 1.0                | 0.002              | 0.0003  | < 0.0002 | < 0.001 | < 0.00001 | 0.006   | 0.004   | < 0.00002 | 0.00008 | 0.0006 | < 0.00003 | 0.0005 | 0.002   |
| B08                                                       | B8-03     | Till        | 543569  | 6984023  | 0.03    | 0.0004  | 3.6                | 0.006              | 0.0003  | < 0.0002 | < 0.001 | < 0.00001 | 0.049   | 0.004   | < 0.00002 | 0.00030 | 0.0007 | < 0.00003 | 0.0015 | 0.003   |
|                                                           |           |             |         |          | 0.01    | 0.0003  | 1.0                | 0.002              | 0.0002  | < 0.0002 | < 0.001 | < 0.00001 | 0.001   | 0.004   | < 0.00002 | 0.00008 | 0.0006 | < 0.00003 | 0.0004 | 0.002   |
|                                                           |           |             |         |          | 0.03    | 0.0004  | 3.6                | 0.006              | 0.0003  | < 0.0002 | < 0.001 | < 0.00001 | 0.049   | 0.005   | < 0.00002 | 0.00030 | 0.0007 | < 0.00003 | 0.0015 | 0.003   |
|                                                           |           |             |         |          | 0.03    | 0.0004  | 2.2                | 0.002              | 0.0003  | nc       | nc      | nc        | 0.006   | 0.004   | nc        | 0.00011 | 0.0006 | nc        | 0.0005 | 0.003   |
|                                                           |           |             |         |          | 0.02    | 0.0004  | 2.3                | 0.003              | 0.0002  | nc       | nc      | nc        | 0.019   | 0.004   | nc        | 0.00016 | 0.0006 | nc        | 0.0008 | 0.003   |
|                                                           |           |             |         |          | 0.01    | 0.0001  | 1.3                | 0.002              | 0.0000  | nc       | nc      | nc        | 0.027   | 0.000   | nc        | 0.00012 | 0.0000 | nc        | 0.0006 | 0.001   |
|                                                           |           |             |         |          | 0.03    | 0.0004  | 2.9                | 0.004              | 0.0003  | nc       | nc      | nc        | 0.028   | 0.005   | nc        | 0.00020 | 0.0006 | nc        | 0.0010 | 0.003   |
| B10                                                       | B10-01    | Till        | 545525  | 6980771  | 0.005   | 0.0004  | 2.7                | 0.001              | 0.0001  | < 0.0002 | < 0.001 | < 0.00001 | 0.001   | 0.006   | < 0.00002 | 0.00008 | 0.0015 | 0.0001    | 0.0002 | 0.002   |
| B10                                                       | B10-02    | Till        | 545560  | 6980764  | 0.01    | 0.0005  | 3.3                | 0.001              | 0.0001  | < 0.0002 | < 0.001 | < 0.00001 | 0.001   | 0.006   | < 0.00002 | 0.00013 | 0.0022 | 0.0003    | 0.0003 | 0.001   |
| B10                                                       | B10-03    | Till        | 545495  | 6980798  | 0.03    | 0.0004  | 3.5                | 0.001              | 0.0002  | < 0.0002 | < 0.001 | < 0.00001 | 0.004   | 0.007   | < 0.00002 | 0.00007 | 0.0008 | 0.0001    | 0.0002 | 0.001   |
|                                                           |           |             |         |          | 0.005   | 0.0004  | 2.7                | 0.001              | 0.0001  | < 0.0002 | < 0.001 | < 0.00001 | 0.001   | 0.006   | < 0.00002 | 0.00007 | 0.0008 | 0.0001    | 0.0002 | 0.001   |
|                                                           |           |             |         |          | 0.03    | 0.0005  | 3.5                | 0.001              | 0.0002  | < 0.0002 | < 0.001 | < 0.00001 | 0.004   | 0.007   | < 0.00002 | 0.00013 | 0.0022 | 0.0003    | 0.0003 | 0.002   |
|                                                           |           |             |         |          | 0.01    | 0.0004  | 3.3                | 0.001              | 0.0001  | nc       | nc      | nc        | 0.001   | 0.006   | nc        | 0.00008 | 0.0015 | 0.0001    | 0.0002 | 0.001   |
|                                                           |           |             |         |          | 0.01    | 0.0004  | 3.2                | 0.001              | 0.0001  | nc       | nc      | nc        | 0.002   | 0.006   | nc        | 0.00009 | 0.0015 | 0.0001    | 0.0002 | 0.001   |
|                                                           |           |             |         |          | 0.01    | 0.0000  | 0.4                | 0.000              | 0.0000  | nc       | nc      | nc        | 0.002   | 0.000   | nc        | 0.00003 | 0.0007 | 0.0001    | 0.0001 | 0.001   |
|                                                           |           |             |         |          | 0.02    | 0.0004  | 3.4                | 0.001              | 0.0002  | nc       | nc      | nc        | 0.003   | 0.007   | nc        | 0.00010 | 0.0018 | 0.0002    | 0.0002 | 0.002   |
| B11                                                       | B11A-1    | Till        | 546670  | 6979248  | 0.01    | 0.0005  | 2.9                | 0.001              | 0.0019  | < 0.0002 | < 0.001 | < 0.00001 | 0.001   | 0.009   | < 0.00002 | 0.00019 | 0.0020 | 0.0010    | 0.0005 | 0.002   |
| B11                                                       | B11A-2    | Till        | 546628  | 6979191  | 0.01    | 0.0005  | 2.7                | 0.001              | 0.0002  | < 0.0002 | < 0.001 | < 0.00001 | 0.002   | 0.011   | < 0.00002 | 0.00011 | 0.0018 | 0.0005    | 0.0003 | 0.002   |
| B11                                                       | B11A-3    | Till        | 546630  | 6979262  | 0.01    | 0.0004  | 3.9                | 0.001              | 0.0005  | < 0.0002 | < 0.001 | < 0.00001 | 0.001   | 0.010   | < 0.00002 | 0.00010 | 0.0011 | 0.0003    | 0.0002 | 0.004   |
|                                                           |           |             |         |          | 0.01    | 0.0004  | 2.7                | 0.001              | 0.0002  | < 0.0002 | < 0.001 | < 0.00001 | 0.001   | 0.009   | < 0.00002 | 0.00010 | 0.0011 | 0.0003    | 0.0002 | 0.002   |
|                                                           |           |             |         | </       |         |         |                    |                    |         |          |         |           |         |         |           |         |        |           |        |         |

## SFE Leachate Results - Esker (Till) Material for Road Construction

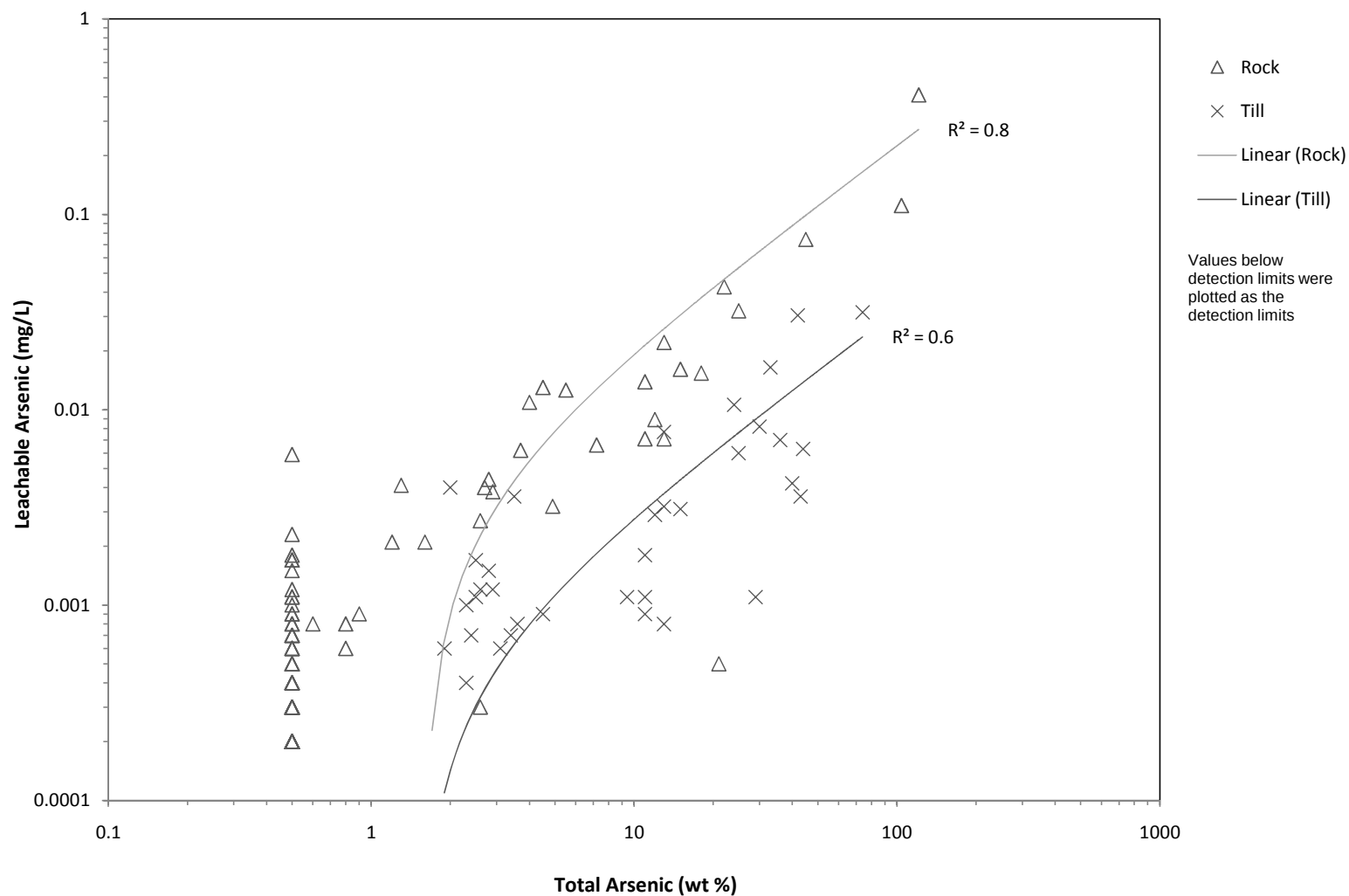
Meliadine Project, Nunavut

Agnico-Eagle Mines Ltd

| CCME (CEQG) (freshwater aquatic life) <sup>1</sup> (mg/L) |           |             |         |          | 6.5 - 9.0  |          | 0.0001                           |           | 0.005 - 0.1 <sup>1</sup> |         | 0.005  |           |           |         | 0.000017 <sup>4</sup> |         | 0.001 <sup>5</sup> |         | 0.002 <sup>4</sup> |        | 0.3     |         |  |  |  |  |
|-----------------------------------------------------------|-----------|-------------|---------|----------|------------|----------|----------------------------------|-----------|--------------------------|---------|--------|-----------|-----------|---------|-----------------------|---------|--------------------|---------|--------------------|--------|---------|---------|--|--|--|--|
| Metal Mine Effluent Regulation (MMER) <sup>2</sup> (mg/L) |           |             |         |          | 6.0 - 9.5  |          |                                  |           | 0.5                      |         |        |           |           |         |                       |         |                    |         | 0.3                |        |         |         |  |  |  |  |
| PROPOSED LOCATION                                         | SAMPLE ID | SAMPLE TYPE | EASTING | NORTHING | Initial pH | Final pH | Hardness mg CaCO <sub>3</sub> /L | Ag mg/L   | Al mg/L                  | As mg/L | B mg/L | Be mg/L   | Bi mg/L   | Ca mg/L | Cd mg/L               | Co mg/L | Cr mg/L            | Cu mg/L | Fe mg/L            | K mg/L | Li mg/L | Mg mg/L |  |  |  |  |
| B15                                                       | B15-01    | Till        | 546192  | 6972523  | 6.2        | 7.0      | 9.7                              | 0.00004   | 0.19                     | 0.001   | 0.005  | < 0.00002 | < 0.00001 | 2.4     | 0.00001               | 0.0007  | < 0.0005           | 0.004   | 0.14               | 5.1    | < 0.001 | 0.91    |  |  |  |  |
| B15                                                       | B15-02    | Till        | 546107  | 6972573  | 6.2        | 6.5      | 2.2                              | 0.00015   | 0.35                     | 0.001   | 0.003  | 0.00003   | 0.00013   | 0.54    | 0.00015               | 0.003   | 0.0008             | 0.011   | 0.25               | 1.0    | < 0.001 | 0.21    |  |  |  |  |
| B15                                                       | B15-03    | Till        | 546250  | 6972511  | 6.2        | 7.7      | 8.5                              | 0.00007   | 0.22                     | 0.004   | 0.004  | < 0.00002 | 0.00004   | 1.8     | 0.00004               | 0.0002  | < 0.0005           | 0.007   | 0.09               | 4.9    | < 0.001 | 0.96    |  |  |  |  |
|                                                           |           |             |         |          | 6.2        | 6.5      | 2.2                              | 0.00004   | 0.19                     | 0.001   | 0.003  | < 0.00002 | < 0.00001 | 0.54    | 0.00001               | 0.0002  | < 0.0005           | 0.004   | 0.09               | 1.0    | < 0.001 | 0.21    |  |  |  |  |
|                                                           |           |             |         |          | 6.2        | 7.7      | 9.7                              | 0.00015   | 0.35                     | 0.004   | 0.005  | 0.00003   | 0.00013   | 2.4     | 0.00015               | 0.003   | 0.0008             | 0.011   | 0.25               | 5.1    | < 0.001 | 0.96    |  |  |  |  |
|                                                           |           |             |         |          | 6.2        | 7.0      | 8.5                              | 0.00007   | 0.22                     | 0.001   | 0.004  | nc        | nc        | 1.8     | 0.00004               | 0.0007  | nc                 | 0.007   | 0.14               | 4.9    | nc      | 0.91    |  |  |  |  |
|                                                           |           |             |         |          | 6.2        | 6.8      | 6.8                              | 0.00009   | 0.25                     | 0.002   | 0.004  | nc        | nc        | 1.6     | 0.00007               | 0.001   | nc                 | 0.007   | 0.16               | 3.7    | nc      | 0.69    |  |  |  |  |
|                                                           |           |             |         |          | 0.02       | nc       | 4.0                              | 0.00006   | 0.09                     | 0.002   | 0.001  | nc        | nc        | 0.93    | 0.00007               | 0.001   | nc                 | 0.003   | 0.09               | 2.3    | nc      | 0.42    |  |  |  |  |
|                                                           |           |             |         |          | 6.2        | nc       | 9.1                              | 0.00011   | 0.29                     | 0.003   | 0.005  | nc        | nc        | 2.1     | 0.00010               | 0.002   | nc                 | 0.009   | 0.19               | 5.0    | nc      | 0.93    |  |  |  |  |
| B18                                                       | B18-01    | Till        | 546920  | 6971177  | 6.5        | 8.2      | 0.5                              | 0.00003   | 0.15                     | 0.008   | 0.003  | < 0.00002 | < 0.00001 | 0.10    | < 0.000003            | 0.0002  | < 0.0005           | 0.004   | 0.05               | 3.0    | < 0.001 | 0.06    |  |  |  |  |
| B18                                                       | B18-02    | Till        | 546820  | 6971241  | 6.2        | 6.9      | 3.7                              | 0.00002   | 0.31                     | 0.003   | 0.005  | < 0.00002 | < 0.00001 | 0.94    | 0.000005              | 0.0015  | 0.0006             | 0.010   | 0.23               | 3.2    | 0.001   | 0.31    |  |  |  |  |
| B18                                                       | B18-03    | Till        | 546737  | 6971254  | 6.7        | 7.0      | 30                               | 0.00002   | 0.14                     | 0.002   | 0.005  | < 0.00002 | < 0.00001 | 8.6     | 0.00002               | 0.0014  | < 0.0005           | 0.009   | 0.10               | 7.4    | < 0.001 | 1.96    |  |  |  |  |
|                                                           |           |             |         |          | 6.2        | 6.9      | 0.49                             | 0.00002   | 0.14                     | 0.002   | 0.003  | < 0.00002 | < 0.00001 | 0.10    | < 0.000003            | 0.0002  | < 0.0005           | 0.004   | 0.05               | 3.0    | < 0.001 | 0.06    |  |  |  |  |
|                                                           |           |             |         |          | 6.7        | 8.2      | 30                               | 0.00003   | 0.31                     | 0.008   | 0.005  | < 0.00002 | < 0.00001 | 8.6     | 0.000018              | 0.001   | 0.0006             | 0.010   | 0.23               | 7.4    | 0.001   | 1.96    |  |  |  |  |
|                                                           |           |             |         |          | 6.5        | 7.0      | 3.7                              | 0.00002   | 0.15                     | 0.003   | 0.005  | nc        | nc        | 0.94    | nc                    | 0.001   | nc                 | 0.009   | 0.10               | 3.2    | nc      | 0.31    |  |  |  |  |
|                                                           |           |             |         |          | 6.5        | 7.1      | 11                               | 0.00002   | 0.20                     | 0.004   | 0.004  | nc        | nc        | 3.2     | nc                    | 0.001   | nc                 | 0.008   | 0.13               | 4.5    | nc      | 0.78    |  |  |  |  |
|                                                           |           |             |         |          | 0.24       | nc       | 16                               | 0.00001   | 0.10                     | 0.003   | 0.001  | nc        | nc        | 4.7     | nc                    | 0.001   | nc                 | 0.003   | 0.09               | 2.5    | nc      | 1.03    |  |  |  |  |
|                                                           |           |             |         |          | 6.6        | nc       | 17                               | 0.00003   | 0.23                     | 0.005   | 0.005  | nc        | nc        | 4.7     | nc                    | 0.001   | nc                 | 0.010   | 0.16               | 5.3    | nc      | 1.14    |  |  |  |  |
| B19                                                       | B19-01    | Till        | 544428  | 6971271  | 6.3        | 6.8      | 6.9                              | 0.00002   | 0.43                     | 0.003   | 0.005  | < 0.00002 | 0.00001   | 1.8     | 0.000003              | 0.001   | 0.001              | 0.012   | 0.53               | 3.3    | 0.001   | 0.55    |  |  |  |  |
| B19                                                       | B19-02    | Till        | 544364  | 6971277  | 5.5        | 5.6      | 5.2                              | 0.00001   | 0.77                     | 0.002   | 0.008  | 0.00002   | < 0.00001 | 1.4     | 0.00001               | 0.001   | 0.002              | 0.010   | 0.51               | 1.6    | 0.003   | 0.42    |  |  |  |  |
| B19                                                       | B19-03    | Till        | 544348  | 6971248  | 6.1        | 5.9      | 1.4                              | 0.00004   | 0.24                     | 0.001   | 0.003  | < 0.00002 | 0.00004   | 0.36    | 0.00003               | 0.000   | 0.001              | 0.007   | 0.20               | 0.6    | < 0.001 | 0.11    |  |  |  |  |
|                                                           |           |             |         |          | 5.5        | 5.6      | 1.4                              | 0.00001   | 0.24                     | 0.001   | 0.003  | < 0.00002 | < 0.00001 | 0.36    | 0.00003               | 0.000   | 0.001              | 0.007   | 0.20               | 0.6    | < 0.001 | 0.11    |  |  |  |  |
|                                                           |           |             |         |          | 6.3        | 6.8      | 6.9                              | 0.00004   | 0.77                     | 0.003   | 0.008  | 0.00002   | 0.00004   | 1.8     | 0.00003               | 0.001   | 0.002              | 0.012   | 0.53               | 3.3    | 0.003   | 0.55    |  |  |  |  |
|                                                           |           |             |         |          | 6.1        | 5.9      | 5.2                              | 0.00002   | 0.43                     | 0.002   | 0.005  | nc        | nc        | 1.4     | 0.00001               | 0.001   | 0.001              | 0.010   | 0.51               | 1.6    | nc      | 0.42    |  |  |  |  |
|                                                           |           |             |         |          | 6.0        | 5.9      | 4                                | 0.00002   | 0.48                     | 0.002   | 0.005  | nc        | nc        | 1.2     | 0.00002               | 0.001   | 0.001              | 0.010   | 0.42               | 1.8    | nc      | 0.36    |  |  |  |  |
|                                                           |           |             |         |          | 0.40       | nc       | 2.8                              | 0.00002   | 0.27                     | 0.001   | 0.003  | nc        | nc        | 0.76    | 0.00002               | 0.0004  | 0.0003             | 0.003   | 0.19               | 1.4    | nc      | 0.22    |  |  |  |  |
|                                                           |           |             |         |          | 6.2        | nc       | 6.0                              | 0.00003   | 0.60                     | 0.002   | 0.007  | nc        | nc        | 1.6     | 0.00002               | 0.001   | 0.001              | 0.011   | 0.52               | 2.5    | nc      | 0.48    |  |  |  |  |
| Island 1                                                  | 10QUAR01  | Till        | 542062  | 6989700  | 5.4        | 5.7      | 7.4                              | 0.00005   | 1.6                      | 0.003   | 0.25   | 0.00005   | 0.00003   | 1.6     | 0.00006               | 0.007   | 0.004              | 0.021   | 1.6                | 1.7    | 0.006   | 0.84    |  |  |  |  |
| Island 1                                                  | 10QUAR02  | Till        | 542025  | 6989670  | 6.2        | 6.9      | 6.6                              | 0.00001   | 0.85                     | 0.001   | 0.10   | 0.00002   | 0.00001   | 1.6     | 0.00001               | 0.003   | 0.002              | 0.010   | 1.0                | 1.3    | 0.002   | 0.63    |  |  |  |  |
| Island 1                                                  | 10QUAR03  | Till        | 542059  | 6989643  | 8.4        | 8.7      | 70                               | 0.00002   | 0.48                     | 0.007   | 0.09   | < 0.00002 | < 0.00001 | 27      | 0.00001               | 0.001   | 0.001              | 0.028   | 0.34               | 1.2    | 0.003   | 0.88    |  |  |  |  |
| Island 1                                                  | 10QUAR04  | Till        | 542122  | 6989684  | 7.2        | 8.0      | 25                               | 0.00001   | 0.82                     | 0.003   | 0.08   | < 0.00002 | 0.00001   | 7.3     | 0.000004              | 0.003   | 0.001              | 0.010   | 1.0                | 3.6    | 0.001   | 1.5     |  |  |  |  |
| Island 1                                                  | 10QUAR05  | Till        | 542086  | 6989743  | 8.4        | 8.8      | 23                               | < 0.00001 | 0.87                     | 0.007   | 0.04   | < 0.00002 | < 0.00001 | 7.5     | 0.000004              | 0.001   | < 0.0005           | 0.010   | 0.45               | 5.0    | 0.001   | 1.0     |  |  |  |  |
| Island 1                                                  | 10QUAR06  | Till        | 542170  | 6989657  | 5.8        | 6.6      | 10                               | 0.00002   | 1.0                      | 0.002   | 0.12   | 0.00002   | 0.00002   | 2.1     | 0.00001               | 0.001   | 0.002              | 0.010   | 1.0                | 2.4    | 0.003   | 1.1     |  |  |  |  |
| Island 1                                                  | 10QUAR07  | Till        | 542206  | 6989628  | 6.6        | 7.5      | 20                               | 0.00002   | 1.5                      | 0.003   | 0.08   | 0.00002   | 0.00002   | 5.9     | 0.00002               | 0.005   | 0.002              | 0.021   | 1.3                | 3.8    | 0.002   | 1.3     |  |  |  |  |
| Island 1                                                  | 10QUAR08  | Till        | 542300  | 6989607  | 5.9        | 6.2      | 4.6                              | 0.00003   | 1.2                      | 0.002   | 0.14   | 0.00003   | 0.00002   | 1.1     | 0.00002               | 0.003   | 0.002              | 0.017   | 1.2                | 1.0    | 0.002   | 0.43    |  |  |  |  |
| Island 1                                                  | 10QUAR09  | Till        | 542242  | 6989592  | 5.5        | 5.9      | 17                               | 0.00005   | 1.4                      | 0.002   | 0.22   | 0.00004   | 0.00004   | 4.5     | 0.00004               | 0.005   | 0.002              | 0.014   | 1.4                | 2.3    | 0.004   | 1.4     |  |  |  |  |
|                                                           |           |             |         |          | 5.4        | 5.7      | 4.6                              | < 0.00001 | 0.48                     | 0.001   | 0.04   | < 0.00002 | < 0.00001 | 1.1     | 0.000004              | 0.001   | < 0.0005           | 0.010   | 0.34               | 1.0    | 0.001   | 0.43    |  |  |  |  |
|                                                           |           |             |         |          | 8.4        | 8.8      | 70                               | 0.00005   | 1.6                      | 0.007   | 0.25   | 0.00005   | 0.00004   | 27      | 0.00006               | 0.007   | 0.004              | 0.028   | 1.6                | 5.0    | 0.006   | 1.5     |  |  |  |  |
|                                                           |           |             |         |          | 6.2        | 6.9      | 17                               | 0.00002   | 1.0                      | 0.003   | 0.10   | 0.00002   | 0.00002   | 4.5     | 0.00001               | 0.003   | 0.002              | 0.014   | 1.0                | 2.3    | 0.002   | 1.0     |  |  |  |  |
|                                                           |           |             |         |          | 6.6        | 7.1      | 20                               | 0.00002   | 1.1                      | 0.003   | 0.12   | 0.00003   | 0.00002   | 6.4     | 0.00002               | 0.003   | 0.002              | 0.016   | 1.0                | 2.5    | 0.003   | 1.0     |  |  |  |  |
|                                                           |           |             |         |          | 1.2        | 1.2      | 20                               | 0.00002   | 0.36                     | 0.002   | 0.07   | 0.00001   | 0.00001   | 7.9     | 0.00002               | 0.002   | 0.001              | 0.006   | 0.42               | 1.4    | 0.002   | 0.36    |  |  |  |  |
|                                                           |           |             |         |          | 7.2        | 8.0      | 23                               | 0.00003   | 1.4                      | 0.003   | 0.14   | 0.00003   | 0.00002   | 7.3     | 0.00002               | 0.005   | 0.002              | 0.021   | 1.3                | 3.6    | 0.003   | 1.3     |  |  |  |  |
| Island 2                                                  | 10QUAR10  | Till        | 543077  | 6989298  | 4.9        | 5.6      | 4.2                              | 0.00004   | 1.6                      | 0.004   | 0.25   | 0.00004   | 0.00002   | 1.0     | 0.00003               | 0.004   | 0.003              | 0.017   | 1.5                | 2.1    | 0.007   | 0.39    |  |  |  |  |
| Island 2                                                  | 10QUAR11  | Till        | 543019  | 6989383  | 6.1        | 6.5      | 25                               | 0.00004   | 1.0                      | 0.002   | 0.13   | 0.00003   | 0.00002   | 6.2     | 0.00002               | 0.003   | 0.001              | 0.013   | 1.2                | 2.7    | 0.002   | 2.3     |  |  |  |  |
| Island 2                                                  | 10QUAR12  | Till        | 542969  | 6989345  | 6.0        | 6.4      | 18                               | 0.00004   | 1.6                      | 0.003   | 0.15   | 0.00004   | 0.00008   | 4.7     | 0.00008               | 0.025   | 0.003              | 0.021   | 1.7                | 3.7    | 0.003   | 1.6     |  |  |  |  |
| Island 2                                                  | 10QUAR13  | Till        | 542950  | 6989320  | 5.0        | 5.6      | 3.1                              | 0.00002   | 1.9                      | 0.002   | 0.24   | 0.00004   | 0.00004   | 0.6     | 0.00002               | 0.002   | 0.003              | 0.009   | 1.6                | 1.4    | 0.009   | 0.39    |  |  |  |  |
| Island 2                                                  | 10QUAR14  | Till        | 542920  | 6989363  | 6.3        | 6.8      | 13                               | 0.00002   | 1.4                      | 0.004   | 0.11   | 0.00004   | 0.00002   | 3.4     | 0.00001               | 0.003   | 0.002              | 0.012   | 1.5                | 3.0    | 0.002   | 1.1     |  |  |  |  |
| Island 2                                                  | 10QUAR15  | Till        | 542878  | 6989372  | 8.4        | 8.6      | 36                               | 0.00002   | 0.79                     | 0.017   | 0.07   | 0.00002   | 0.00003   | 13      | 0.00001               | 0.002   | 0.001              | 0.030   | 1.3                | 4.5    | 0.003   | 1.1     |  |  |  |  |
|                                                           |           |             |         |          | 4.9        | 5.6      | 3.1                              | 0.00002   | 0.79                     | 0.002   | 0.07   | 0.00002   | 0.00002   | 0.6     | 0.00001               | 0.002   | 0.001              | 0.009   | 1.2                | 1.4    | 0.002   | 0.39    |  |  |  |  |
|                                                           |           |             |         |          | 8.4        | 8.6      | 36                               | 0.00004   | 1.9                      | 0.017   | 0.25   | 0.00004   | 0.00008   | 13      | 0.00008               | 0.025   | 0.003              | 0.030   | 1.7                | 4.5    | 0.009   | 2.3     |  |  |  |  |
|                                                           |           |             |         |          | 6.1        | 6.4      | 16                               | 0.00003   | 1.5                      | 0.003   | 0.14   | 0.00004   | 0.00003   | 4.0     | 0.00002               | 0.003   | 0.002              | 0.015   | 1.5                | 2.8    | 0.003   | 1.1     |  |  |  |  |
|                                                           |           |             |         |          | 6.1        | 6.6      | 17                               | 0.00003   | 1.4                      | 0.005   | 0.16   | 0.00004   | 0.00004   | 4.7     | 0.00003               | 0.006   | 0.002              | 0.017   | 1.5                | 2.9    | 0.004   | 1.1     |  |  |  |  |
|                                                           |           |             |         |          | 1.3        | 1.1      | 13                               | 0.00001   | 0.4                      | 0.006   | 0.07   | 0.00001   | 0.00002   | 4.4     | 0.00003               | 0.009   | 0.001              | 0.008   | 0.18               | 1.1    | 0.003   | 0.72    |  |  |  |  |
|                                                           |           |             |         |          | 6.3        | 6.8      | 23                               | 0.00004   | 1.6                      | 0.004   | 0.21   | 0.00004   | 0.00004   | 5.8     | 0.00002               | 0.004   | 0.003              | 0.020   | 1.6                | 3.5    | 0.006   | 1.5     |  |  |  |  |

Appendix A.3  
SFE Leachate Results - Esker (Till) Material for Road Construction  
Meliadine Project, Nunavut  
Agnico-Eagle Mines Ltd

| CCME (CEQG) (freshwater aquatic life) <sup>1</sup> (mg/L) |           |             |         |          | 0.073   |         | 0.025 <sup>4</sup> |         | 0.001 <sup>4</sup> |          | 0.001   |           |         |         | 0.0008    |         |        |         |        |         | 0.03 |  |
|-----------------------------------------------------------|-----------|-------------|---------|----------|---------|---------|--------------------|---------|--------------------|----------|---------|-----------|---------|---------|-----------|---------|--------|---------|--------|---------|------|--|
| Metal Mine Effluent Regulation (MMER) <sup>2</sup> (mg/L) |           |             |         |          | 0.5     |         | 0.2                |         |                    |          |         |           |         |         |           |         |        |         |        |         | 0.5  |  |
| PROPOSED LOCATION                                         | SAMPLE ID | SAMPLE TYPE | EASTING | NORTHING | Mn mg/L | Mo mg/L | Na mg/L            | Ni mg/L | Pb mg/L            | Sb mg/L  | Se mg/L | Sn mg/L   | Sr mg/L | Ti mg/L | Ti mg/L   | U mg/L  | V mg/L | W mg/L  | Y mg/L | Zn mg/L |      |  |
| B15                                                       | B15-01    | Till        | 546192  | 6972523  | 0.05    | 0.0005  | 3.8                | 0.001   | 0.0003             | < 0.0002 | < 0.001 | < 0.00001 | 0.009   | 0.004   | < 0.00002 | 0.0001  | 0.0007 | 0.0001  | 0.0002 | 0.0002  |      |  |
| B15                                                       | B15-02    | Till        | 546107  | 6972573  | 0.02    | 0.0006  | 1.5                | 0.003   | 0.0003             | < 0.0002 | < 0.001 | 0.00023   | 0.021   | 0.005   | 0.0002    | 0.0004  | 0.0005 | 0.0003  | 0.0020 | 0.001   |      |  |
| B15                                                       | B15-03    | Till        | 546250  | 6972511  | 0.02    | 0.0005  | 3.9                | 0.001   | 0.0002             | < 0.0002 | < 0.001 | 0.00004   | 0.017   | 0.004   | 0.0001    | 0.0001  | 0.0013 | 0.0002  | 0.0001 | 0.001   |      |  |
|                                                           |           |             |         |          | 0.02    | 0.0005  | 1.5                | 0.001   | 0.0002             | < 0.0002 | < 0.001 | < 0.00001 | 0.009   | 0.004   | < 0.00002 | 0.0001  | 0.0005 | 0.0001  | 0.0001 | 0.001   |      |  |
|                                                           |           |             |         |          | 0.05    | 0.0006  | 3.9                | 0.003   | 0.0003             | < 0.0002 | < 0.001 | 0.00023   | 0.021   | 0.005   | 0.0002    | 0.0004  | 0.0013 | 0.0003  | 0.0020 | 0.002   |      |  |
|                                                           |           |             |         |          | 0.02    | 0.0005  | 3.8                | 0.001   | 0.0003             | nc       | nc      | nc        | 0.017   | 0.004   | nc        | 0.0001  | 0.0007 | 0.0002  | 0.0002 | 0.001   |      |  |
|                                                           |           |             |         |          | 0.03    | 0.0005  | 3.1                | 0.002   | 0.0002             | nc       | nc      | nc        | 0.015   | 0.004   | nc        | 0.0002  | 0.0008 | 0.0002  | 0.0008 | 0.001   |      |  |
|                                                           |           |             |         |          | 0.02    | 0.0001  | 1.4                | 0.001   | 0.0001             | nc       | nc      | nc        | 0.006   | 0.001   | nc        | 0.0002  | 0.0004 | 0.0001  | 0.0010 | 0.001   |      |  |
|                                                           |           |             |         |          | 0.04    | 0.0006  | 3.8                | 0.002   | 0.0003             | nc       | nc      | nc        | 0.019   | 0.005   | nc        | 0.0003  | 0.0010 | 0.0003  | 0.0011 | 0.002   |      |  |
| B18                                                       | B18-01    | Till        | 546920  | 6971177  | 0.00    | 0.0026  | 2.5                | 0.001   | 0.0000             | 0.0003   | < 0.001 | < 0.00001 | 0.001   | 0.002   | < 0.00002 | 0.00003 | 0.0015 | 0.0002  | 0.0001 | < 0.001 |      |  |
| B18                                                       | B18-02    | Till        | 546820  | 6971241  | 0.01    | 0.0008  | 2.7                | 0.003   | 0.0001             | < 0.0002 | < 0.001 | < 0.00001 | 0.006   | 0.006   | < 0.00002 | 0.00010 | 0.0009 | 0.0001  | 0.0007 | 0.003   |      |  |
| B18                                                       | B18-03    | Till        | 546737  | 6971254  | 0.08    | 0.0129  | 2.6                | 0.003   | 0.0001             | < 0.0002 | < 0.001 | < 0.00001 | 0.033   | 0.003   | < 0.00002 | 0.00008 | 0.0008 | 0.0001  | 0.0002 | 0.001   |      |  |
|                                                           |           |             |         |          | 0.00    | 0.0008  | 2.5                | 0.001   | 0.0000             | < 0.0002 | < 0.001 | < 0.00001 | 0.001   | 0.002   | < 0.00002 | 0.00003 | 0.0008 | 0.0001  | 0.0001 | < 0.001 |      |  |
|                                                           |           |             |         |          | 0.08    | 0.0129  | 2.7                | 0.003   | 0.0001             | 0.0003   | < 0.001 | < 0.00001 | 0.033   | 0.006   | < 0.00002 | 0.00010 | 0.0015 | 0.0002  | 0.0007 | 0.003   |      |  |
|                                                           |           |             |         |          | 0.01    | 0.0026  | 2.6                | 0.003   | 0.0001             | nc       | nc      | nc        | 0.006   | 0.003   | nc        | 0.00008 | 0.0009 | 0.0001  | 0.0002 | nc      |      |  |
|                                                           |           |             |         |          | 0.03    | 0.0054  | 2.6                | 0.002   | 0.0001             | nc       | nc      | nc        | 0.013   | 0.004   | nc        | 0.00007 | 0.0010 | 0.0002  | 0.0003 | nc      |      |  |
|                                                           |           |             |         |          | 0.04    | 0.0065  | 0.1                | 0.002   | 0.0000             | nc       | nc      | nc        | 0.017   | 0.002   | nc        | 0.00004 | 0.0004 | 0.0001  | 0.0003 | nc      |      |  |
|                                                           |           |             |         |          | 0.05    | 0.0077  | 2.6                | 0.003   | 0.0001             | nc       | nc      | nc        | 0.019   | 0.004   | nc        | 0.00009 | 0.0012 | 0.0002  | 0.0005 | nc      |      |  |
| B19                                                       | B19-01    | Till        | 544428  | 6971271  | 0.01    | 0.0008  | 2.6                | 0.004   | 0.0003             | 0.0002   | < 0.001 | < 0.00001 | 0.010   | 0.011   | < 0.00002 | 0.00021 | 0.0016 | 0.0001  | 0.0012 | 0.002   |      |  |
| B19                                                       | B19-02    | Till        | 544364  | 6971277  | 0.01    | 0.0001  | 1.3                | 0.004   | 0.0006             | < 0.0002 | < 0.001 | < 0.00001 | 0.034   | 0.008   | < 0.00002 | 0.00036 | 0.0011 | 0.00004 | 0.0012 | 0.003   |      |  |
| B19                                                       | B19-03    | Till        | 544348  | 6971248  | 0.001   | 0.0006  | 0.8                | 0.002   | 0.0004             | < 0.0002 | < 0.001 | < 0.00001 | 0.002   | 0.004   | 0.00005   | 0.00044 | 0.0007 | 0.0001  | 0.0008 | < 0.001 |      |  |
|                                                           |           |             |         |          | 0.001   | 0.0001  | 0.8                | 0.002   | 0.0003             | < 0.0002 | < 0.001 | < 0.00001 | 0.002   | 0.004   | < 0.00002 | 0.00021 | 0.0007 | 0.00004 | 0.0008 | < 0.001 |      |  |
|                                                           |           |             |         |          | 0.01    | 0.0008  | 2.6                | 0.004   | 0.0006             | 0.0002   | < 0.001 | < 0.00001 | 0.034   | 0.011   | 0.00005   | 0.00044 | 0.0016 | 0.0001  | 0.0012 | 0.003   |      |  |
|                                                           |           |             |         |          | 0.01    | 0.0006  | 1.3                | 0.004   | 0.0004             | nc       | nc      | nc        | 0.010   | 0.008   | nc        | 0.00036 | 0.0011 | 0.0001  | 0.0012 | nc      |      |  |
|                                                           |           |             |         |          | 0.01    | 0.0005  | 1.6                | 0.003   | 0.0004             | nc       | nc      | nc        | 0.015   | 0.008   | nc        | 0.00034 | 0.0012 | 0.0001  | 0.0011 | nc      |      |  |
|                                                           |           |             |         |          | 0.01    | 0.0003  | 0.9                | 0.001   | 0.0002             | nc       | nc      | nc        | 0.016   | 0.004   | nc        | 0.00011 | 0.0005 | 0.0000  | 0.0002 | nc      |      |  |
|                                                           |           |             |         |          | 0.01    | 0.0007  | 2.0                | 0.004   | 0.0005             | nc       | nc      | nc        | 0.022   | 0.010   | nc        | 0.00040 | 0.0014 | 0.0001  | 0.0012 | nc      |      |  |
| Island 1                                                  | 10QUAR01  | Till        | 542062  | 6989700  | 0.06    | 0.0002  | 7.2                | 0.077   | 0.0011             | 0.0006   | < 0.001 | 0.00003   | 0.024   | 0.046   | 0.00004   | 0.00004 | 0.0037 | 0.0002  | 0.0022 | 0.191   |      |  |
| Island 1                                                  | 10QUAR02  | Till        | 542025  | 6989670  | 0.04    | 0.0002  | 5.2                | 0.020   | 0.0010             | 0.0003   | < 0.001 | 0.00003   | 0.022   | 0.020   | < 0.00002 | 0.0001  | 0.0026 | 0.0001  | 0.0009 | 0.020   |      |  |
| Island 1                                                  | 10QUAR03  | Till        | 542059  | 6989643  | 0.00    | 0.0006  | 4.6                | 0.009   | 0.0002             | 0.0005   | < 0.001 | 0.00002   | 0.156   | 0.023   | < 0.00002 | 0.0002  | 0.0054 | 0.0002  | 0.0009 | 0.008   |      |  |
| Island 1                                                  | 10QUAR04  | Till        | 542122  | 6989684  | 0.04    | 0.0006  | 5.1                | 0.004   | 0.0010             | 0.0003   | < 0.001 | < 0.00001 | 0.045   | 0.014   | < 0.00002 | 0.0002  | 0.0027 | 0.0001  | 0.0009 | 0.008   |      |  |
| Island 1                                                  | 10QUAR05  | Till        | 542086  | 6989743  | 0.02    | 0.0003  | 5.4                | 0.002   | 0.0009             | 0.0004   | < 0.001 | 0.00005   | 0.037   | 0.007   | < 0.00002 | 0.0004  | 0.0021 | 0.0001  | 0.0004 | 0.007   |      |  |
| Island 1                                                  | 10QUAR06  | Till        | 542170  | 6989657  | 0.05    | 0.0003  | 5.3                | 0.005   | 0.0007             | 0.0004   | < 0.001 | < 0.00001 | 0.025   | 0.026   | < 0.00002 | 0.0001  | 0.0029 | 0.0001  | 0.0007 | 0.049   |      |  |
| Island 1                                                  | 10QUAR07  | Till        | 542206  | 6989628  | 0.08    | 0.0016  | 6.7                | 0.025   | 0.0014             | 0.0004   | < 0.001 | 0.00012   | 0.040   | 0.034   | < 0.00002 | 0.0001  | 0.0037 | 0.0003  | 0.0011 | 0.022   |      |  |
| Island 1                                                  | 10QUAR08  | Till        | 542300  | 6989607  | 0.04    | 0.0003  | 4.8                | 0.005   | 0.0012             | 0.0004   | < 0.001 | < 0.00001 | 0.018   | 0.031   | < 0.00002 | 0.0002  | 0.0026 | 0.0001  | 0.0012 | 0.085   |      |  |
| Island 1                                                  | 10QUAR09  | Till        | 542242  | 6989592  | 0.13    | 0.0002  | 7.3                | 0.005   | 0.0011             | 0.0004   | < 0.001 | 0.00002   | 0.041   | 0.045   | < 0.00002 | 0.0003  | 0.0030 | 0.0001  | 0.0014 | 0.247   |      |  |
|                                                           |           |             |         |          | 0.00    | 0.0002  | 4.6                | 0.002   | 0.0002             | 0.0003   | < 0.001 | < 0.00001 | 0.018   | 0.007   | < 0.00002 | 0.0001  | 0.0021 | 0.0001  | 0.0004 | 0.007   |      |  |
|                                                           |           |             |         |          | 0.13    | 0.0016  | 7.3                | 0.077   | 0.0014             | 0.0006   | < 0.001 | 0.00012   | 0.156   | 0.046   | 0.00004   | 0.0004  | 0.0054 | 0.0003  | 0.0022 | 0.247   |      |  |
|                                                           |           |             |         |          | 0.04    | 0.0003  | 5.3                | 0.005   | 0.0010             | 0.0004   | nc      | 0.00002   | 0.037   | 0.026   | nc        | 0.0002  | 0.0029 | 0.0001  | 0.0009 | 0.022   |      |  |
|                                                           |           |             |         |          | 0.05    | 0.0005  | 5.7                | 0.017   | 0.0009             | 0.0004   | nc      | 0.00003   | 0.045   | 0.027   | nc        | 0.0002  | 0.0032 | 0.0001  | 0.0011 | 0.071   |      |  |
|                                                           |           |             |         |          | 0.04    | 0.0004  | 1.0                | 0.024   | 0.0003             | 0.0001   | nc      | 0.00004   | 0.043   | 0.013   | nc        | 0.0001  | 0.0010 | 0.0001  | 0.0005 | 0.089   |      |  |
|                                                           |           |             |         |          | 0.06    | 0.0006  | 6.7                | 0.020   | 0.0011             | 0.0004   | nc      | 0.00003   | 0.041   | 0.034   | nc        | 0.0003  | 0.0037 | 0.0002  | 0.0012 | 0.085   |      |  |
| Island 2                                                  | 10QUAR10  | Till        | 543077  | 6989298  | 0.04    | 0.0003  | 8.1                | 0.007   | 0.0017             | 0.0004   | < 0.001 | 0.0008    | 0.020   | 0.049   | < 0.00002 | 0.0002  | 0.0034 | 0.0002  | 0.0009 | 0.26    |      |  |
| Island 2                                                  | 10QUAR11  | Till        | 543019  | 6989383  | 0.08    | 0.0004  | 6.7                | 0.010   | 0.0013             | 0.0004   | < 0.001 | 0.0000    | 0.054   | 0.030   | 0.00003   | 0.0002  | 0.0027 | 0.0001  | 0.0010 | 0.06    |      |  |
| Island 2                                                  | 10QUAR12  | Till        | 542969  | 6989345  | 0.50    | 0.0024  | 7.9                | 0.038   | 0.0016             | 0.0005   | < 0.001 | 0.0000    | 0.042   | 0.047   | 0.00003   | 0.0002  | 0.0038 | 0.0001  | 0.0010 | 0.13    |      |  |
| Island 2                                                  | 10QUAR13  | Till        | 542950  | 6989320  | 0.03    | 0.0003  | 5.8                | 0.003   | 0.0016             | 0.0005   | < 0.001 | 0.0000    | 0.017   | 0.055   | < 0.00002 | 0.0002  | 0.0046 | 0.0002  | 0.0006 | 0.23    |      |  |
| Island 2                                                  | 10QUAR14  | Till        | 542920  | 6989363  | 0.07    | 0.0005  | 6.1                | 0.005   | 0.0017             | 0.0004   | < 0.001 | 0.0002    | 0.034   | 0.033   | < 0.00002 | 0.0002  | 0.0042 | 0.0001  | 0.0009 | 0.04    |      |  |
| Island 2                                                  | 10QUAR15  | Till        | 542878  | 6989372  | 0.02    | 0.0008  | 6.4                | 0.005   | 0.0019             | 0.0005   | < 0.001 | < 0.00001 | 0.071   | 0.025   | < 0.00002 | 0.0003  | 0.0081 | 0.0004  | 0.0007 | 0.01    |      |  |
|                                                           |           |             |         |          | 0.02    | 0.0003  | 5.8                | 0.003   | 0.0013             | 0.0004   | < 0.001 | < 0.00001 | 0.017   | 0.025   | < 0.00002 | 0.0002  | 0.0027 | 0.0001  | 0.0006 | 0.01    |      |  |
|                                                           |           |             |         |          | 0.50    | 0.0024  | 8.1                | 0.038   | 0.0019             | 0.0005   | < 0.001 | 0.0008    | 0.071   | 0.055   | 0.00003   | 0.0003  | 0.0081 | 0.0004  | 0.0010 | 0.26    |      |  |
|                                                           |           |             |         |          | 0.06    | 0.0004  | 6.5                | 0.006   | 0.0017             | 0.0005   | nc      | 0.0000    | 0.038   | 0.040   | nc        | 0.0002  | 0.0040 | 0.0002  | 0.0009 | 0.09    |      |  |
|                                                           |           |             |         |          | 0.12    | 0.0008  | 6.8                | 0.011   | 0.0016             | 0.0005   | nc      | 0.0002    | 0.040   | 0.040   | nc        | 0.0002  | 0.0045 | 0.0002  | 0.0008 | 0.12    |      |  |
|                                                           |           |             |         |          | 0.19    | 0.0008  | 1.0                | 0.013   | 0.0002             | 0.0001   | nc      | 0.0003    | 0.021   | 0.012   | nc        | 0.0001  | 0.0019 | 0.0001  | 0.0001 | 0.10    |      |  |
|                                                           |           |             |         |          | 0.08    | 0.0007  | 7.6                | 0.009   | 0.0017             | 0.0005   | nc      | 0.0002    | 0.051   | 0.048   | nc        | 0.0002  | 0.0045 | 0.0002  | 0.0009 | 0.20    |      |  |

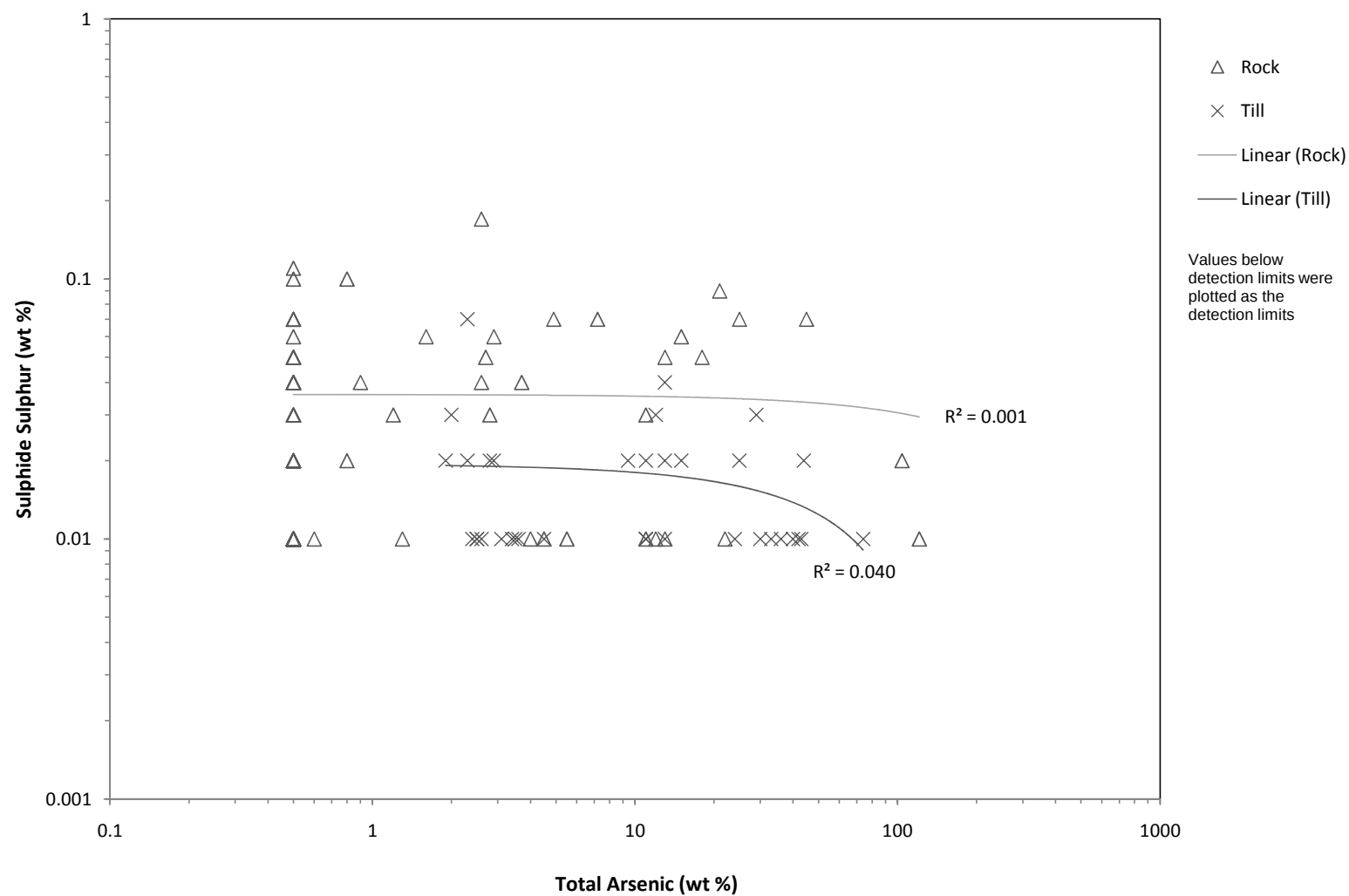


Quarry and Borrow Material

Total Arsenic versus Leachable Arsenic (SFE)

Meliadine Gold Project  
Agnico-Eagle Mines Ltd.

|          |     |      |        |        |              |
|----------|-----|------|--------|--------|--------------|
| DRAWN    | JMC | DATE | Dec-10 | JOB NO | 10-1127-0101 |
| CHECKED  | JMC |      |        |        |              |
| REVIEWED | VJB |      |        | FIGURE | A.3-1        |



Quarry and Borrow Material

Total Arsenic versus Sulphide Sulphur

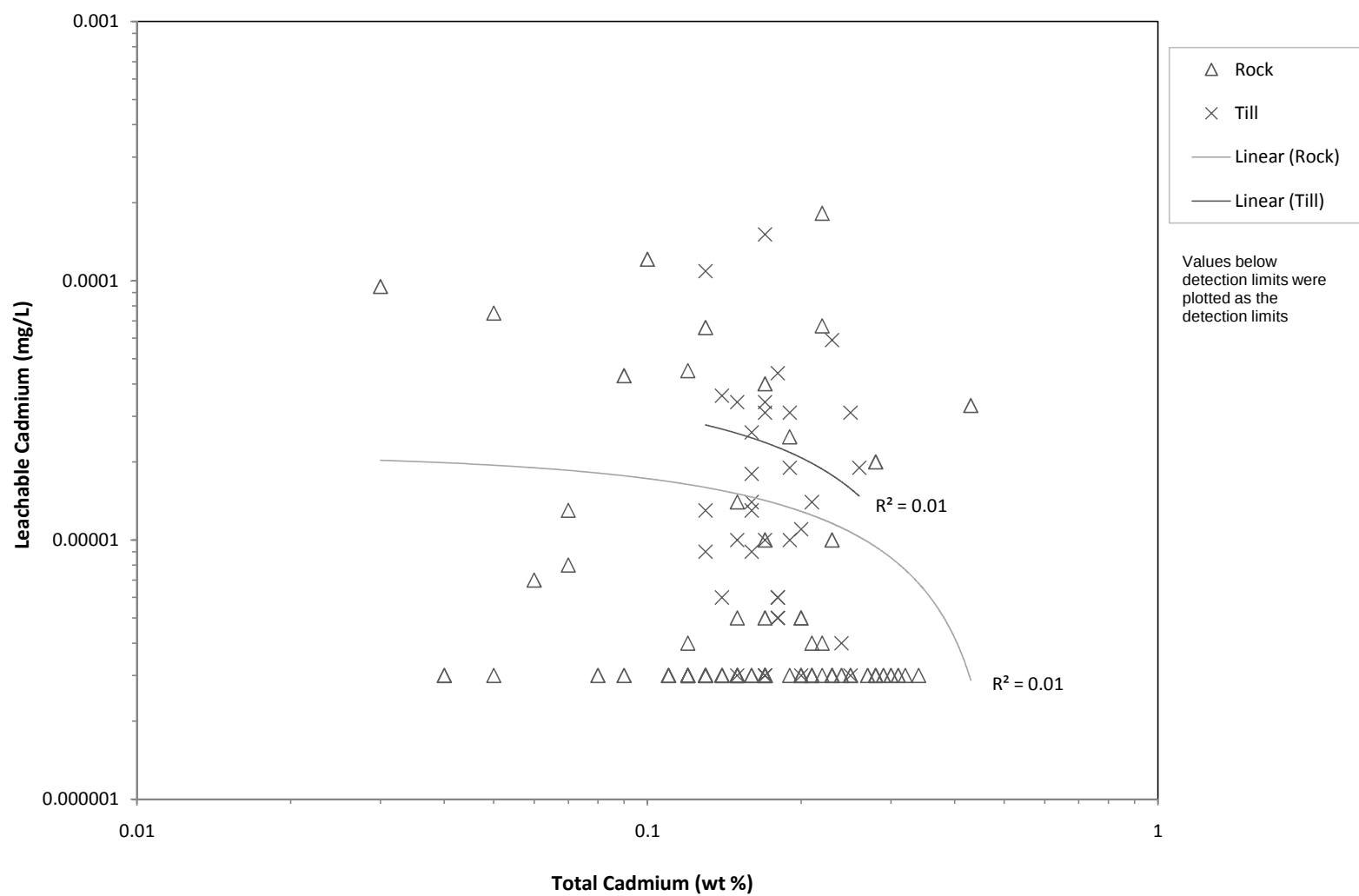
Meliadine Gold Project  
 Agnico-Eagle Mines Ltd.

DRAWN JMC  
 CHECKED JMC  
 REVIEWED VJB

DATE Dec-10

JOB NO 10-1127-0101

FIGURE A.3-2



Quarry and Borrow Material

Total Cadmium versus Leachable Cadmium (SFE)

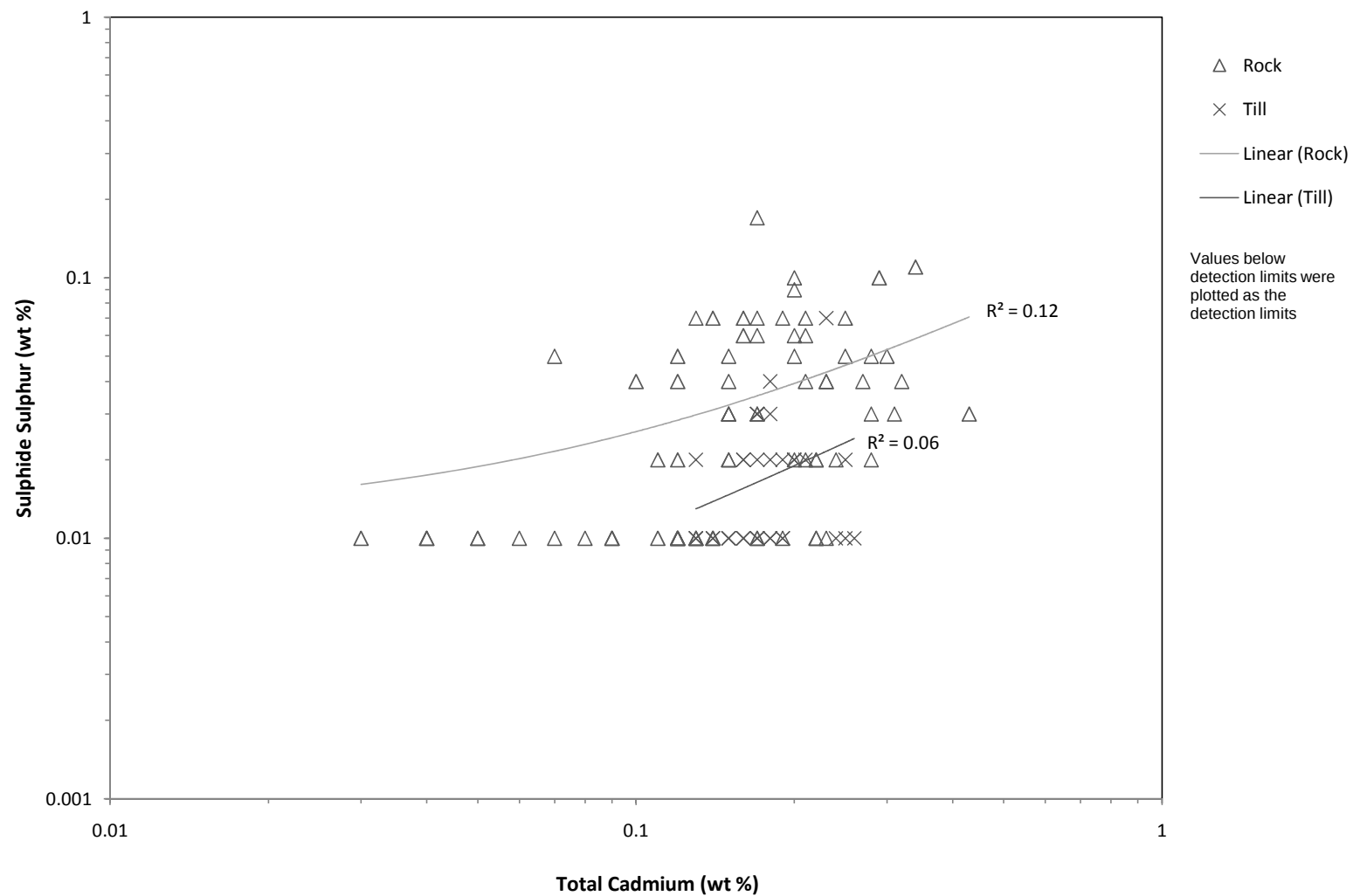
Meliadine Gold Project  
Agnico-Eagle Mines Ltd.

DRAWN JMC  
CHECKED JMC  
REVIEWED VJB

DATE Dec-10

JOB NO 10-1127-0101

FIGURE A.3-3

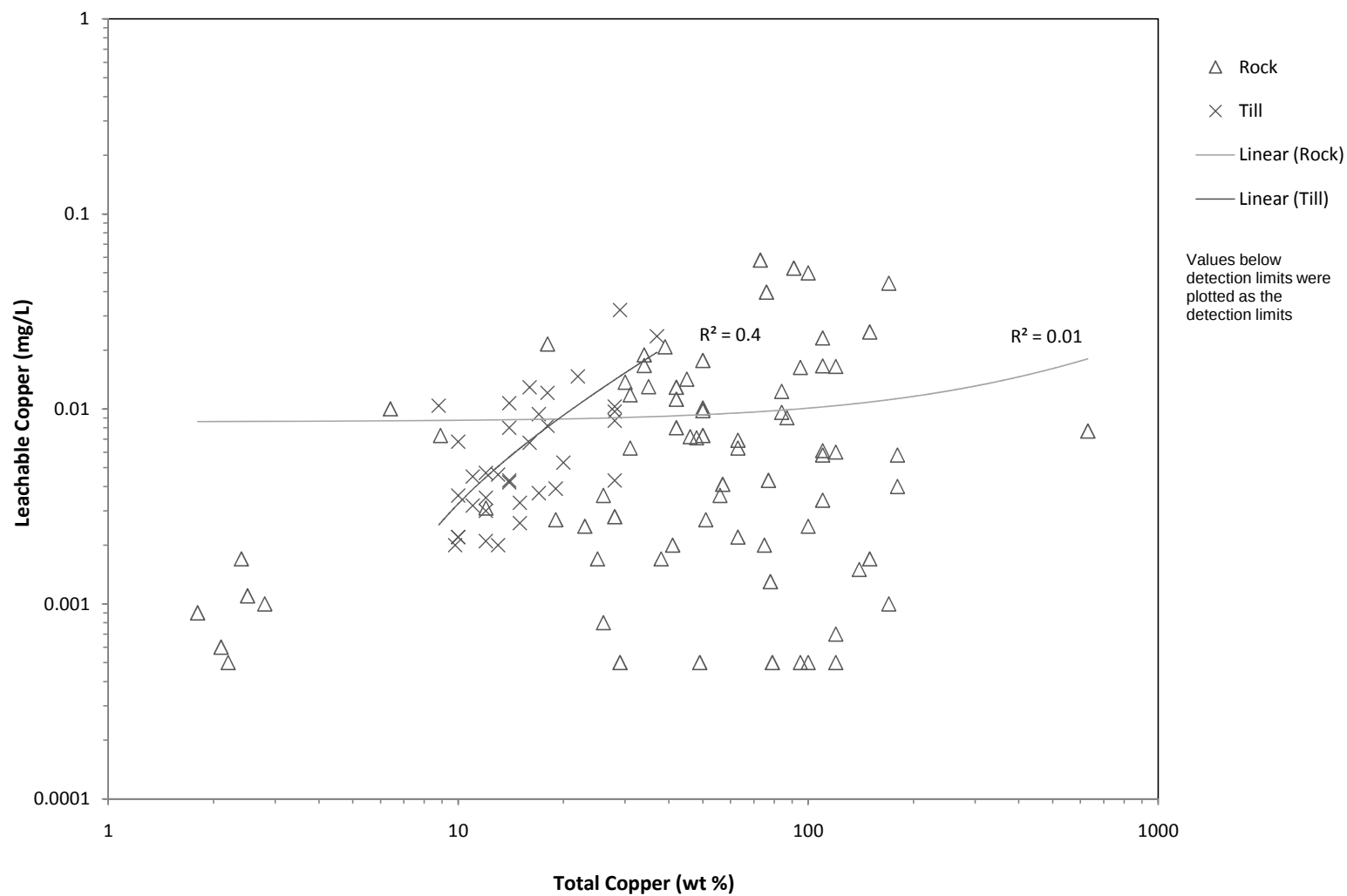


Quarry and Borrow Material

Total Cadmium versus Sulphide Sulphur

Meliadine Gold Project  
 Agnico-Eagle Mines Ltd.

|          |     |      |        |        |              |
|----------|-----|------|--------|--------|--------------|
| DRAWN    | JMC | DATE | Dec-10 | JOB NO | 10-1127-0101 |
| CHECKED  | JMC |      |        |        |              |
| REVIEWED | VJB |      |        | FIGURE | A.3-4        |

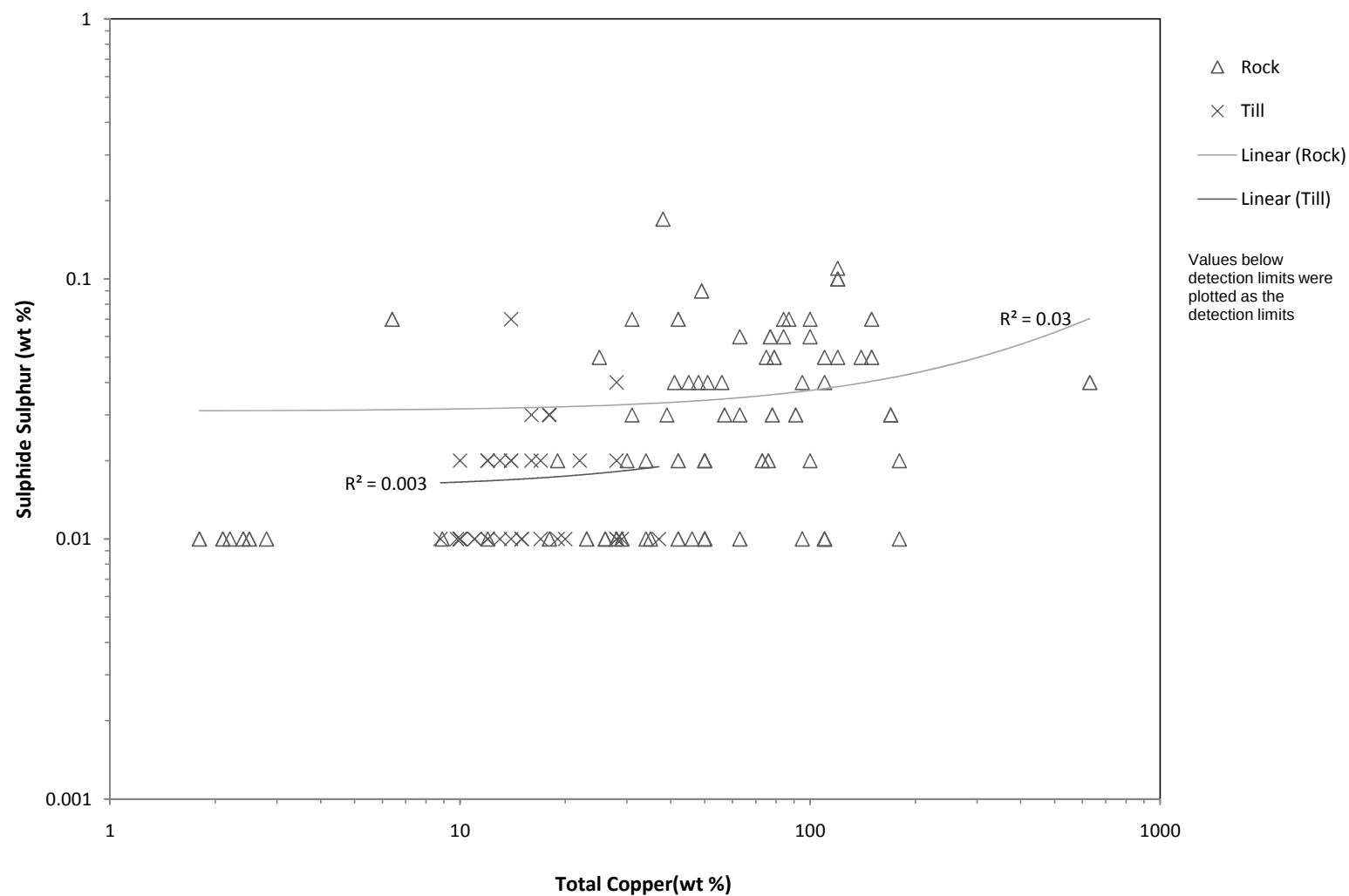


Quarry and Borrow Material

Total Copper versus Leachable Copper (SFE)

Meliadine Gold Project  
 Agnico-Eagle Mines Ltd.

|          |     |      |        |        |              |
|----------|-----|------|--------|--------|--------------|
| DRAWN    | JMC | DATE | Dec-10 | JOB NO | 10-1127-0101 |
| CHECKED  | JMC |      |        |        |              |
| REVIEWED | VJB |      |        | FIGURE | A.3-5        |



Quarry and Borrow Material

Total Copper versus Sulphide Sulphur

Meliadine Gold Project  
 Agnico-Eagle Mines Ltd.

|          |     |      |        |        |              |
|----------|-----|------|--------|--------|--------------|
| DRAWN    | JMC | DATE | Dec-10 | JOB NO | 10-1127-0101 |
| CHECKED  | JMC |      |        |        |              |
| REVIEWED | VJB |      |        | FIGURE | A.3-6        |



# **APPENDIX B**

## **Laboratory Certificates of Analysis**



**SGS Canada Inc.**

P.O. Box 4300 - 185 Concession St.

Lakefield - Ontario - KOL 2H0

Phone: 705-652-2000 FAX: 705-652-6365

## Agnico-Eagle Mines Limited

Attn : Larry Connell

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Phone: 416-947-1212

Fax: 416-367-4681

Wednesday, September 15, 2010

**Date Rec. :** 19 August 2010

**LR Report:** CA10319-AUG10

**Reference:** Meliadine (Golder10-1127-0101)

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# CERTIFICATE OF ANALYSIS

## Final Report

| Analysis           | 19:<br>B8-01 | 20:<br>B8-02 | 21:<br>B8-03 | 22:<br>B6A-01 | 23:<br>B6A-02 | 24:<br>B6A-03 | 25:<br>B5-01 | 26:<br>B5-02 | 27:<br>B5-03 | 28:<br>B10-01 | 29:<br>B3-01 | 30:<br>B3-02 | 31:<br>B3-03 | 32:<br>B1A-01 | 33:<br>B1A-02 | 34:<br>B1A-03 | 35:<br>R11-01 | 36:<br>R11-02 |
|--------------------|--------------|--------------|--------------|---------------|---------------|---------------|--------------|--------------|--------------|---------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|
| Sample Date & Time |              |              |              |               |               |               |              |              |              |               |              |              |              |               |               |               |               |               |
| Silver [µg/g]      | 0.22         | 0.19         | 0.24         | 0.19          | 0.17          | 0.19          | 0.21         | 0.28         | 0.20         | 0.21          | 0.30         | 0.31         | 0.32         | 0.26          | 0.25          | 0.28          | 0.26          | 0.19          |
| Aluminum [µg/g]    | 78000        | 76000        | 80000        | 72000         | 67000         | 73000         | 75000        | 72000        | 75000        | 78000         | 63000        | 72000        | 71000        | 83000         | 75000         | 82000         | 83000         | 90000         |
| Arsenic [µg/g]     | 9.4          | 74           | 15           | 11            | 13            | 11            | 43           | 36           | 25           | 2.6           | 33           | 24           | 42           | 44            | 40            | 30            | 1.3           | < 0.5         |
| Barium [µg/g]      | 640          | 570          | 580          | 500           | 520           | 550           | 530          | 600          | 640          | 490           | 600          | 660          | 580          | 690           | 500           | 610           | 860           | 370           |
| Beryllium [µg/g]   | 1.1          | 1.2          | 1.3          | 1.2           | 1.2           | 1.2           | 1.2          | 1.2          | 1.2          | 1.1           | 1.1          | 1.2          | 1.1          | 1.2           | 1.1           | 1.2           | 1.0           | 0.80          |
| Bismuth [µg/g]     | 0.10         | 0.12         | < 0.09       | < 0.09        | < 0.09        | < 0.09        | < 0.09       | 0.18         | 0.13         | 0.21          | 0.14         | 0.14         | 0.17         | 0.14          | 0.31          | 0.22          | < 0.09        | < 0.09        |
| Calcium [µg/g]     | 15000        | 16000        | 16000        | 16000         | 15000         | 13000         | 14000        | 17000        | 16000        | 17000         | 13000        | 18000        | 21000        | 10000         | 10000         | 11000         | 12000         | 26000         |
| Cadmium [µg/g]     | 0.18         | 0.15         | 0.16         | 0.15          | 0.13          | 0.14          | 0.16         | 0.19         | 0.13         | 0.18          | 0.16         | 0.25         | 0.24         | 0.21          | 0.19          | 0.26          | 0.14          | 0.08          |
| Cobalt [µg/g]      | 22           | 15           | 14           | 13            | 11            | 10.0          | 12           | 15           | 12           | 11            | 11           | 11           | 15           | 9.9           | 12            | 12            | 1.3           | 6.3           |
| Chromium [µg/g]    | 310          | 300          | 290          | 270           | 320           | 280           | 290          | 220          | 260          | 290           | 290          | 230          | 300          | 290           | 360           | 260           | 250           | 160           |
| Copper [µg/g]      | 12           | 20           | 16           | 15            | 10            | 15            | 11           | 29           | 22           | 10            | 28           | 28           | 37           | 10            | 19            | 11            | 23            | 12            |
| Iron [µg/g]        | 36000        | 34000        | 37000        | 33000         | 30000         | 29000         | 37000        | 37000        | 34000        | 35000         | 26000        | 30000        | 34000        | 38000         | 35000         | 43000         | 10000         | 22000         |
| Potassium [µg/g]   | 22000        | 20000        | 21000        | 18000         | 18000         | 19000         | 20000        | 20000        | 21000        | 18000         | 19000        | 22000        | 19000        | 23000         | 19000         | 22000         | 25000         | 17000         |
| Lithium [µg/g]     | 24           | 17           | 22           | 15            | 14            | 17            | 17           | 14           | 17           | 17            | 13           | 17           | 18           | 25            | 17            | 27            | 14            | 17            |
| Magnesium [µg/g]   | 14000        | 12000        | 14000        | 12000         | 10000         | 10000         | 12000        | 12000        | 12000        | 12000         | 7900         | 10000        | 12000        | 13000         | 9000          | 16000         | 3000          | 6400          |
| Manganese [µg/g]   | 420          | 440          | 450          | 450           | 380           | 360           | 430          | 480          | 430          | 420           | 280          | 370          | 420          | 340           | 470           | 400           | 130           | 460           |
| Molybdenum [µg/g]  | 3.6          | 6.2          | 1.3          | 5.2           | 1.5           | 5.1           | 1.4          | 3.9          | 1.2          | 6.0           | 1.6          | 4.3          | 1.4          | 5.4           | 1.9           | 4.6           | 3.0           | 0.8           |
| Sodium [µg/g]      | 25000        | 25000        | 26000        | 25000         | 24000         | 26000         | 26000        | 24000        | 26000        | 28000         | 22000        | 25000        | 23000        | 25000         | 22000         | 24000         | 36000         | 34000         |



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LR Report :

CA10319-AUG10

| Analysis                | 19:<br>B8-01 | 20:<br>B8-02 | 21:<br>B8-03 | 22:<br>B6A-01 | 23:<br>B6A-02 | 24:<br>B6A-03 | 25:<br>B5-01 | 26:<br>B5-02 | 27:<br>B5-03 | 28:<br>B10-01 | 29:<br>B3-01 | 30:<br>B3-02 | 31:<br>B3-03 | 32:<br>B1A-01 | 33:<br>B1A-02 | 34:<br>B1A-03 | 35:<br>R11-01 | 36:<br>R11-02 |
|-------------------------|--------------|--------------|--------------|---------------|---------------|---------------|--------------|--------------|--------------|---------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|
| Nickel [µg/g]           | 62           | 31           | 35           | 31            | 25            | 25            | 28           | 36           | 31           | 24            | 27           | 27           | 39           | 30            | 30            | 30            | 15            | 22            |
| Total Phosphorus [µg/g] | 490          | 370          | 550          | 390           | 380           | 380           | 470          | 600          | 530          | 450           | 590          | 670          | 560          | 540           | 510           | 570           | 270           | 320           |
| Lead [µg/g]             | 13           | 12           | 13           | 12            | 12            | 12            | 13           | 15           | 13           | 12            | 14           | 16           | 14           | 13            | 12            | 13            | 33            | 5.6           |
| Antimony [µg/g]         | < 0.8        | < 0.8        | < 0.8        | < 0.8         | < 0.8         | < 0.8         | < 0.8        | < 0.8        | < 0.8        | 0.8           | < 0.8        | < 0.8        | < 0.8        | < 0.8         | < 0.8         | < 0.8         | < 0.8         | < 0.8         |
| Selenium [µg/g]         | < 0.7        | < 0.7        | < 0.7        | < 0.7         | < 0.7         | < 0.7         | < 0.7        | < 0.7        | < 0.7        | < 0.7         | < 0.7        | < 0.7        | < 0.7        | < 0.7         | < 0.7         | < 0.7         | < 0.7         | < 0.7         |
| Tin [µg/g]              | 1.1          | 1.2          | 1.4          | 1.8           | 1.4           | 1.7           | 1.6          | 1.9          | 2.0          | 1.9           | 1.3          | 1.9          | 1.8          | 1.7           | 3.6           | 2.0           | 1.4           | 1.4           |
| Strontium [µg/g]        | 310          | 310          | 310          | 280           | 300           | 320           | 300          | 310          | 320          | 310           | 320          | 330          | 320          | 350           | 310           | 320           | 350           | 340           |
| Titanium [µg/g]         | 2700         | 2400         | 2900         | 2400          | 2200          | 2100          | 2600         | 2700         | 2400         | 2800          | 2000         | 2200         | 2200         | 2500          | 1900          | 2800          | 1100          | 2000          |
| Thallium [µg/g]         | 0.38         | 0.35         | 0.43         | 0.38          | 0.34          | 0.37          | 0.38         | 0.40         | 0.38         | 0.30          | 0.38         | 0.42         | 0.37         | 0.39          | 0.33          | 0.46          | 0.36          | 0.14          |
| Uranium [µg/g]          | 1.3          | 1.1          | 1.6          | 1.2           | 1.0           | 1.2           | 1.3          | 1.4          | 1.2          | 1.2           | 1.3          | 1.3          | 1.2          | 1.5           | 1.2           | 1.6           | 6.3           | 0.72          |
| Vanadium [µg/g]         | 69           | 64           | 68           | 63            | 50            | 54            | 66           | 68           | 62           | 56            | 41           | 53           | 63           | 78            | 67            | 90            | 3             | 36            |
| Yttrium [µg/g]          | 8.1          | 7.9          | 8.8          | 8.8           | 7.7           | 7.7           | 8.7          | 11           | 9.2          | 7.4           | 9.4          | 10           | 11           | 8.0           | 7.3           | 9.5           | 2.5           | 5.0           |
| Zinc [g/t]              | 74           | 61           | 69           | 56            | 57            | 61            | 62           | 61           | 64           | 62            | 53           | 58           | 62           | 79            | 64            | 81            | 69            | 66            |

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## Final Report

| Analysis           | 37:<br>R11-03 | 38:<br>T43-01 | 39:<br>T43-02 | 40:<br>T43-03 | 41:<br>T43-05 | 42:<br>R82-01 | 43:<br>R82-02 | 44:<br>B12-01 | 45:<br>B12-02 | 46:<br>B12-03 | 47:<br>R9-01 | 48:<br>R9-02 | 49:<br>R9-03 | 50:<br>B11A-1 | 51:<br>B11A-2 | 52:<br>B11A-3 | 53:<br>R7-01 | 54:<br>R7-02 |
|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|--------------|--------------|---------------|---------------|---------------|--------------|--------------|
| Sample Date & Time |               |               |               |               |               |               |               |               |               |               |              |              |              |               |               |               |              |              |
| Silver [µg/g]      | 0.29          | 0.07          | 0.22          | 0.07          | 0.20          | 0.11          | 0.14          | 0.21          | 0.22          | 0.20          | 0.17         | 0.10         | 0.16         | 0.23          | 0.24          | 0.24          | 0.21         | 0.10         |
| Aluminum [µg/g]    | 96000         | 73000         | 82000         | 57000         | 80000         | 70000         | 50000         | 75000         | 77000         | 77000         | 67000        | 74000        | 68000        | 82000         | 86000         | 76000         | 47000        | 76000        |
| Arsenic [µg/g]     | < 0.5         | < 0.5         | < 0.5         | < 0.5         | < 0.5         | < 0.5         | < 0.5         | 4.5           | 3.6           | 3.4           | < 0.5        | < 0.5        | < 0.5        | 2.3           | 2.8           | 3.1           | < 0.5        | < 0.5        |
| Barium [µg/g]      | 360           | 44            | 38            | 68            | 190           | 240           | 180           | 480           | 540           | 510           | 41           | 290          | 74           | 570           | 730           | 580           | 23           | 42           |
| Beryllium [µg/g]   | 0.86          | 0.35          | 3.0           | 0.24          | 14            | 0.63          | 5.5           | 1.2           | 1.3           | 1.2           | 18           | 22           | 0.45         | 1.1           | 1.2           | 1.1           | 0.32         | 0.63         |
| Bismuth [µg/g]     | < 0.09        | 0.46          | 1.7           | 0.68          | 16            | 1.7           | 13            | 1.00          | 0.43          | 0.28          | 3.2          | 3.1          | 0.67         | 0.35          | 0.36          | 0.28          | 0.14         | 1.3          |
| Calcium [µg/g]     | 27000         | 76000         | 95000         | 90000         | 43000         | 67000         | 68000         | 18000         | 19000         | 17000         | 91000        | 81000        | 66000        | 22000         | 18000         | 17000         | 74000        | 100000       |
| Cadmium [µg/g]     | 0.12          | 0.11          | 0.16          | 0.12          | 0.13          | 0.10          | 0.22          | 0.17          | 0.13          | 0.14          | 0.23         | 0.27         | 0.22         | 0.17          | 0.19          | 0.17          | 0.09         | 0.17         |
| Cobalt [µg/g]      | 7.5           | 47            | 47            | 44            | 35            | 35            | 45            | 12            | 11            | 10            | 36           | 36           | 48           | 16            | 12            | 12            | 47           | 45           |
| Chromium [µg/g]    | 190           | 370           | 370           | 410           | 370           | 260           | 260           | 350           | 260           | 320           | 290          | 410          | 360          | 270           | 310           | 320           | 390          | 310          |
| Copper [µg/g]      | 8.9           | 30            | 150           | 41            | 46            | 45            | 34            | 13            | 17            | 9.8           | 110          | 48           | 100          | 14            | 12            | 12            | 50           | 77           |
| Iron [µg/g]        | 26000         | 75000         | 81000         | 78000         | 67000         | 95000         | 110000        | 36000         | 36000         | 34000         | 77000        | 57000        | 67000        | 43000         | 37000         | 35000         | 82000        | 88000        |
| Potassium [µg/g]   | 14000         | 3100          | 2300          | 3600          | 7300          | 6800          | 8000          | 18000         | 19000         | 19000         | 2300         | 7700         | 3400         | 20000         | 24000         | 19000         | 2000         | 2400         |
| Lithium [µg/g]     | 21            | 18            | 18            | 23            | 82            | 30            | 55            | 19            | 19            | 19            | 16           | 20           | 20           | 21            | 22            | 16            | 18           | 5            |
| Magnesium [µg/g]   | 9000          | 36000         | 38000         | 30000         | 33000         | 28000         | 26000         | 13000         | 13000         | 13000         | 31000        | 29000        | 30000        | 16000         | 13000         | 11000         | 38000        | 32000        |
| Manganese [µg/g]   | 430           | 950           | 1100          | 1200          | 880           | 1200          | 1500          | 470           | 500           | 420           | 1400         | 1000         | 950          | 490           | 400           | 400           | 1100         | 1600         |
| Molybdenum [µg/g]  | 2.7           | 0.3           | 1.5           | 0.4           | 3.8           | 0.6           | 3.9           | 1.6           | 4.7           | 1.6           | 1.4          | 4.7          | 0.5          | 6.0           | 1.6           | 6.9           | 1.1          | 0.3          |
| Sodium [µg/g]      | 38000         | 17000         | 13000         | 15000         | 23000         | 21000         | 20000         | 25000         | 26000         | 25000         | 20000        | 13000        | 20000        | 27000         | 27000         | 26000         | 21000        | 14000        |

Online LIMS



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**LR Report :**

**CA10319-AUG10**

| Analysis                | 37:<br>R11-03 | 38:<br>T43-01 | 39:<br>T43-02 | 40:<br>T43-03 | 41:<br>T43-05 | 42:<br>R82-01 | 43:<br>R82-02 | 44:<br>B12-01 | 45:<br>B12-02 | 46:<br>B12-03 | 47:<br>R9-01 | 48:<br>R9-02 | 49:<br>R9-03 | 50:<br>B11A-1 | 51:<br>B11A-2 | 52:<br>B11A-3 | 53:<br>R7-01 | 54:<br>R7-02 |
|-------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|--------------|--------------|---------------|---------------|---------------|--------------|--------------|
| Nickel [µg/g]           | 17            | 150           | 140           | 130           | 110           | 54            | 74            | 31            | 29            | 29            | 66           | 110          | 150          | 32            | 27            | 25            | 120          | 82           |
| Total Phosphorus [µg/g] | 370           | 240           | 260           | 250           | 220           | 390           | 480           | 440           | 500           | 450           | 290          | 380          | 250          | 560           | 510           | 470           | 290          | 360          |
| Lead [µg/g]             | 6.0           | 4.2           | 4.3           | 4.3           | 7.2           | 6.2           | 5.3           | 12            | 12            | 12            | 6.4          | 6.4          | 6.1          | 13            | 13            | 16            | 4.8          | 5.8          |
| Antimony [µg/g]         | < 0.8         | < 0.8         | < 0.8         | < 0.8         | < 0.8         | < 0.8         | < 0.8         | < 0.8         | < 0.8         | < 0.8         | < 0.8        | < 0.8        | < 0.8        | < 0.8         | < 0.8         | < 0.8         | < 0.8        | < 0.8        |
| Selenium [µg/g]         | < 0.7         | < 0.7         | < 0.7         | < 0.7         | < 0.7         | < 0.7         | < 0.7         | < 0.7         | < 0.7         | < 0.7         | < 0.7        | < 0.7        | < 0.7        | < 0.7         | < 0.7         | < 0.7         | < 0.7        | < 0.7        |
| Tin [µg/g]              | 1.6           | 1.2           | 2.1           | 1.2           | 2.4           | 2.7           | 2.5           | 1.4           | 1.7           | 1.5           | 3.2          | 4.7          | < 0.5        | 1.1           | 1.2           | 0.7           | 1.4          | < 0.5        |
| Strontium [µg/g]        | 250           | 160           | 170           | 180           | 180           | 170           | 200           | 310           | 330           | 310           | 140          | 170          | 190          | 330           | 330           | 290           | 190          | 280          |
| Titanium [µg/g]         | 2400          | 5300          | 5600          | 5500          | 4900          | 7200          | 8000          | 3000          | 2900          | 2800          | 5800         | 4300         | 5800         | 3500          | 3200          | 2700          | 5400         | 6600         |
| Thallium [µg/g]         | 0.11          | 0.13          | 0.10          | 0.24          | 0.91          | 0.39          | 0.66          | 0.36          | 0.37          | 0.37          | 0.09         | 0.45         | 0.14         | 0.34          | 0.41          | 0.33          | < 0.02       | 0.02         |
| Uranium [µg/g]          | 0.43          | 0.36          | 0.31          | 0.050         | 2.1           | 0.24          | 0.38          | 1.4           | 1.4           | 1.4           | 0.51         | 0.69         | 0.25         | 1.5           | 1.7           | 1.4           | 0.25         | 0.56         |
| Vanadium [µg/g]         | 37            | 220           | 200           | 230           | 180           | 210           | 310           | 60            | 64            | 63            | 190          | 170          | 230          | 75            | 68            | 53            | 200          | 210          |
| Yttrium [µg/g]          | 4.5           | 14            | 17            | 12            | 12            | 17            | 17            | 9.5           | 11            | 9.3           | 15           | 14           | 14           | 10.0          | 8.4           | 8.0           | 14           | 18           |
| Zinc [g/t]              | 58            | 79            | 81            | 75            | 89            | 96            | 120           | 59            | 60            | 57            | 100          | 100          | 84           | 75            | 70            | 65            | 72           | 84           |

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# CERTIFICATE OF ANALYSIS

## Final Report

| Analysis           | 55:<br>R7-03 | 56:<br>R7-04 | 57:<br>R7-05 | 58:<br>B10-02 | 59:<br>R5-01 | 60:<br>R5-02 | 61:<br>R5-03 | 62:<br>R280-03 | 63:<br>B10-03 | 64:<br>R16-01 | 65:<br>R16-02 | 66:<br>R16-03 | 67:<br>R16-04 | 68:<br>R16-05 | 69:<br>R16-06 | 70:<br>R16-07 | 71:<br>R16-08 | 72:<br>R16-09 |
|--------------------|--------------|--------------|--------------|---------------|--------------|--------------|--------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Sample Date & Time |              |              |              |               |              |              |              |                |               |               |               |               |               |               |               |               |               |               |
| Silver [µg/g]      | 0.08         | 0.06         | 0.12         | 0.21          | 0.11         | 0.12         | 0.12         | 0.11           | 0.22          | 0.19          | 0.13          | 0.19          | 0.12          | 0.14          | 0.15          | 0.12          | 0.25          | 0.18          |
| Aluminum [µg/g]    | 70000        | 8400         | 67000        | 80000         | 93000        | 93000        | 93000        | 93000          | 78000         | 76000         | 76000         | 54000         | 70000         | 90000         | 78000         | 76000         | 82000         | 59000         |
| Arsenic [µg/g]     | < 0.5        | < 0.5        | < 0.5        | 3.5           | < 0.5        | < 0.5        | < 0.5        | < 0.5          | 2.9           | 15            | 11            | 7.2           | 4.9           | 22            | 1.6           | 1.2           | 2.9           | 2.8           |
| Barium [µg/g]      | 100          | 19           | 27           | 570           | 470          | 350          | 380          | 450            | 400           | 45            | 50            | 60            | 56            | 110           | 110           | 36            | 300           | 270           |
| Beryllium [µg/g]   | 0.24         | 0.43         | 0.38         | 1.0           | 0.99         | 0.87         | 0.82         | 0.96           | 1.1           | 0.30          | 0.28          | 0.31          | 0.24          | 0.46          | 0.33          | 0.27          | 0.66          | 0.58          |
| Bismuth [µg/g]     | 1.1          | 0.25         | 0.97         | 0.18          | 0.11         | < 0.09       | < 0.09       | < 0.09         | 0.18          | 0.35          | 0.13          | 0.09          | < 0.09        | < 0.09        | < 0.09        | < 0.09        | < 0.09        | < 0.09        |
| Calcium [µg/g]     | 79000        | 10000        | 88000        | 21000         | 23000        | 24000        | 23000        | 23000          | 21000         | 68000         | 67000         | 66000         | 76000         | 38000         | 71000         | 80000         | 54000         | 55000         |
| Cadmium [µg/g]     | 0.12         | 0.12         | 0.15         | 0.18          | 0.05         | 0.04         | 0.03         | 0.05           | 0.25          | 0.16          | 0.15          | 0.19          | 0.14          | 0.11          | 0.20          | 0.17          | 0.21          | 0.15          |
| Cobalt [µg/g]      | 43           | 45           | 42           | 14            | 3.7          | 3.7          | 3.6          | 3.6            | 14            | 40            | 38            | 40            | 38            | 39            | 44            | 40            | 54            | 55            |
| Chromium [µg/g]    | 310          | 280          | 310          | 290           | 180          | 180          | 190          | 220            | 240           | 120           | 150           | 150           | 150           | 200           | 350           | 180           | 150           | 110           |
| Copper [µg/g]      | 50           | 28           | 63           | 12            | 2.2          | 2.1          | 1.8          | 2.4            | 13            | 100           | 57            | 84            | 87            | 35            | 63            | 78            | 84            | 91            |
| Iron [µg/g]        | 90000        | 14000        | 83000        | 40000         | 12000        | 12000        | 13000        | 13000          | 35000         | 80000         | 80000         | 79000         | 77000         | 62000         | 73000         | 81000         | 96000         | 94000         |
| Potassium [µg/g]   | 5300         | 300          | 2000         | 17000         | 14000        | 11000        | 12000        | 13000          | 16000         | 4300          | 4100          | 6200          | 2700          | 2400          | 6800          | 2100          | 11000         | 8900          |
| Lithium [µg/g]     | 14           | 10           | 12           | 18            | 9            | 8            | 8            | 11             | 16            | 17            | 15            | 21            | 8             | 20            | 20            | 5             | 18            | 24            |
| Magnesium [µg/g]   | 32000        | 4600         | 29000        | 14000         | 4200         | 4100         | 3700         | 5000           | 12000         | 42000         | 44000         | 34000         | 39000         | 33000         | 53000         | 45000         | 39000         | 34000         |
| Manganese [µg/g]   | 1300         | 1300         | 1400         | 460           | 110          | 140          | 120          | 85             | 430           | 910           | 930           | 1000          | 1000          | 770           | 880           | 1000          | 990           | 1000          |
| Molybdenum [µg/g]  | 3.0          | 0.2          | 1.7          | 1.5           | 1.3          | 1.9          | 0.7          | 2.4            | 5.3           | 0.5           | 1.1           | 0.4           | 1.2           | 0.9           | 0.8           | 0.5           | 0.7           | 2.2           |
| Sodium [µg/g]      | 20000        | 3200         | 18000        | 28000         | 40000        | 41000        | 42000        | 40000          | 27000         | 14000         | 16000         | 14000         | 18000         | 25000         | 16000         | 16000         | 20000         | 19000         |

Online LIMS



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**LR Report :**

**CA10319-AUG10**

| Analysis                | 55:<br>R7-03 | 56:<br>R7-04 | 57:<br>R7-05 | 58:<br>B10-02 | 59:<br>R5-01 | 60:<br>R5-02 | 61:<br>R5-03 | 62:<br>R280-03 | 63:<br>B10-03 | 64:<br>R16-01 | 65:<br>R16-02 | 66:<br>R16-03 | 67:<br>R16-04 | 68:<br>R16-05 | 69:<br>R16-06 | 70:<br>R16-07 | 71:<br>R16-08 | 72:<br>R16-09 |
|-------------------------|--------------|--------------|--------------|---------------|--------------|--------------|--------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Nickel [µg/g]           | 80           | 86           | 83           | 29            | 8.5          | 5.6          | 5.3          | 6.5            | 30            | 74            | 78            | 72            | 68            | 140           | 150           | 84            | 160           | 220           |
| Total Phosphorus [µg/g] | 370          | < 5          | 330          | 490           | 200          | 230          | 230          | 240            | 490           | 310           | 310           | 290           | 320           | 230           | 290           | 290           | 720           | 610           |
| Lead [µg/g]             | 4.6          | 3.5          | 4.0          | 11            | 3.2          | 3.5          | 3.1          | 3.0            | 11            | 4.6           | 4.5           | 6.6           | 4.6           | 7.0           | 11            | 3.8           | 8.7           | 8.4           |
| Antimony [µg/g]         | < 0.8        | < 0.8        | < 0.8        | < 0.8         | < 0.8        | < 0.8        | < 0.8        | < 0.8          | 0.9           | 3.1           | 2.2           | 2.7           | 6.1           | 1.8           | 6.5           | 1.9           | 2.3           | 1.9           |
| Selenium [µg/g]         | < 0.7        | < 0.7        | < 0.7        | < 0.7         | < 0.7        | < 0.7        | < 0.7        | < 0.7          | < 0.7         | < 0.7         | < 0.7         | < 0.7         | < 0.7         | < 0.7         | < 0.7         | < 0.7         | < 0.7         | < 0.7         |
| Tin [µg/g]              | < 0.5        | 0.7          | < 0.5        | < 0.5         | < 0.5        | < 0.5        | 1.9          | < 0.5          | 1.4           | 0.9           | 0.7           | 0.8           | 1.0           | 1.0           | 1.1           | 0.7           | 1.0           | 0.7           |
| Strontium [µg/g]        | 230          | 170          | 190          | 340           | 460          | 470          | 490          | 430            | 280           | 220           | 210           | 260           | 240           | 280           | 300           | 110           | 230           | 220           |
| Titanium [µg/g]         | 6800         | 900          | 6000         | 3100          | 1100         | 1100         | 1100         | 1200           | 3000          | 5200          | 5200          | 5100          | 5200          | 2300          | 4300          | 5100          | 7500          | 6300          |
| Thallium [µg/g]         | 0.28         | < 0.02       | < 0.02       | 0.28          | 0.11         | 0.11         | 0.09         | 0.08           | 0.38          | 0.12          | 0.11          | 0.23          | 0.05          | 0.03          | 0.17          | < 0.02        | 0.21          | 0.20          |
| Uranium [µg/g]          | 0.30         | 0.38         | 0.42         | 1.1           | 0.36         | 0.57         | 0.44         | 0.38           | 1.1           | 0.18          | 0.16          | 0.17          | 0.17          | 0.78          | 0.18          | 0.15          | 0.69          | 0.56          |
| Vanadium [µg/g]         | 250          | 230          | 230          | 60            | 12           | 12           | 11           | 11             | 56            | 200           | 200           | 220           | 200           | 93            | 170           | 200           | 110           | 110           |
| Yttrium [µg/g]          | 18           | 17           | 16           | 8.4           | 2.5          | 2.4          | 2.0          | 2.2            | 8.3           | 19            | 18            | 17            | 18            | 6.2           | 14            | 18            | 17            | 13            |
| Zinc [g/t]              | 82           | 92           | 75           | 68            | 34           | 34           | 30           | 28             | 65            | 77            | 78            | 79            | 72            | 74            | 86            | 76            | 110           | 100           |

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Wednesday, September 15, 2010

**Date Rec. :** 19 August 2010

**LR Report:** CA10319-AUG10

**Reference:** Meliadine (Golder10-1127-0101)

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# CERTIFICATE OF ANALYSIS

## Final Report

| Analysis           | 73:<br>B18-01 | 74:<br>B18-02 | 75:<br>B18-03 | 76:<br>R17-01 | 77:<br>R17-02 | 78:<br>R17-03 | 79:<br>B15-01 | 80:<br>B15-02 | 81:<br>B15-03 | 82:<br>B19-03 | 83:<br>R14-01 | 84:<br>R14-02 | 85:<br>R14-03 | 86:<br>R14-04 | 87:<br>R14-05 | 88:<br>T041-01 |
|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
| Sample Date & Time |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |                |
| Silver [µg/g]      | 0.27          | 0.24          | 0.24          | 0.37          | 0.13          | 0.23          | 0.25          | 0.25          | 0.24          | 0.20          | 0.21          | 0.29          | 0.33          | 0.25          | 0.21          | 0.10           |
| Aluminum [µg/g]    | 83000         | 76000         | 77000         | 89000         | 70000         | 69000         | 70000         | 57000         | 78000         | 58000         | 76000         | 82000         | 38000         | 78000         | 83000         | 100000         |
| Arsenic [µg/g]     | 13            | 13            | 11            | 21            | 13            | 18            | 1.9           | 2.5           | 2.0           | 2.4           | < 0.5         | < 0.5         | 2.6           | < 0.5         | < 0.5         | < 0.5          |
| Barium [µg/g]      | 530           | 510           | 560           | 550           | 220           | 68            | 550           | 510           | 720           | 430           | 370           | 530           | 590           | 180           | 70            | 200            |
| Beryllium [µg/g]   | 1.2           | 1.2           | 1.2           | 1.2           | 0.35          | 0.47          | 1.5           | 1.2           | 1.3           | 1.1           | 0.46          | 1.00          | 0.57          | 0.68          | 0.82          | 0.55           |
| Bismuth [µg/g]     | 0.18          | 0.12          | 0.16          | 0.25          | < 0.09        | < 0.09        | 0.26          | 0.22          | 0.26          | 0.19          | 0.50          | < 0.09        | 0.71          | < 0.09        | < 0.09        | 1.3            |
| Calcium [µg/g]     | 17000         | 18000         | 16000         | 9100          | 56000         | 72000         | 18000         | 14000         | 18000         | 15000         | 59000         | 61000         | 2100          | 62000         | 53000         | 91000          |
| Cadmium [µg/g]     | 0.20          | 0.18          | 0.16          | 0.20          | 0.17          | 0.28          | 0.20          | 0.17          | 0.18          | 0.15          | 0.20          | 0.20          | 0.17          | 0.25          | 0.23          | 0.15           |
| Cobalt [µg/g]      | 18            | 15            | 14            | 18            | 36            | 38            | 12            | 8.7           | 11            | 6.2           | 42            | 52            | 17            | 52            | 51            | 39             |
| Chromium [µg/g]    | 220           | 270           | 230           | 210           | 110           | 160           | 250           | 270           | 220           | 320           | 100           | 83            | 270           | 89            | 99            | 170            |
| Copper [µg/g]      | 28            | 28            | 17            | 49            | 29            | 75            | 14            | 14            | 16            | 10            | 120           | 76            | 38            | 110           | 34            | 42             |
| Iron [µg/g]        | 44000         | 38000         | 40000         | 42000         | 78000         | 76000         | 34000         | 23000         | 30000         | 22000         | 100000        | 110000        | 27000         | 100000        | 100000        | 85000          |
| Potassium [µg/g]   | 22000         | 19000         | 22000         | 23000         | 10000         | 1900          | 23000         | 19000         | 25000         | 17000         | 10000         | 9800          | 20000         | 7000          | 3600          | 3300           |
| Lithium [µg/g]     | 27            | 23            | 23            | 34            | 49            | 16            | 21            | 10            | 19            | 12            | 12            | 12            | 11            | 8             | 5             | 14             |
| Magnesium [µg/g]   | 17000         | 13000         | 15000         | 16000         | 41000         | 42000         | 11000         | 6100          | 10000         | 6200          | 24000         | 32000         | 5400          | 28000         | 31000         | 34000          |
| Manganese [µg/g]   | 450           | 410           | 410           | 370           | 960           | 1000          | 410           | 280           | 360           | 240           | 1000          | 1000          | 140           | 1300          | 1200          | 960            |
| Molybdenum [µg/g]  | 1.2           | 5.3           | 2.1           | 1.7           | 0.8           | 0.3           | 5.4           | 1.2           | 5.5           | 7.1           | 3.0           | 0.8           | 8.9           | 0.6           | 3.2           | 7.4            |
| Sodium [µg/g]      | 23000         | 23000         | 22000         | 24000         | 11000         | 18000         | 22000         | 20000         | 25000         | 20000         | 18000         | 22000         | 3600          | 22000         | 26000         | 16000          |



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CA10319-AUG10

| Analysis                | 73:<br>B18-01 | 74:<br>B18-02 | 75:<br>B18-03 | 76:<br>R17-01 | 77:<br>R17-02 | 78:<br>R17-03 | 79:<br>B15-01 | 80:<br>B15-02 | 81:<br>B15-03 | 82:<br>B19-03 | 83:<br>R14-01 | 84:<br>R14-02 | 85:<br>R14-03 | 86:<br>R14-04 | 87:<br>R14-05 | 88:<br>T041-01 |
|-------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
| Nickel [µg/g]           | 50            | 47            | 36            | 60            | 79            | 80            | 27            | 19            | 25            | 18            | 87            | 100           | 33            | 110           | 110           | 67             |
| Total Phosphorus [µg/g] | 570           | 510           | 550           | 590           | 300           | 270           | 540           | 400           | 470           | 440           | 740           | 730           | 300           | 710           | 720           | 380            |
| Lead [µg/g]             | 12            | 11            | 12            | 14            | 9.9           | 29            | 13            | 12            | 15            | 12            | 11            | 14            | 2.2           | 15            | 13            | 18             |
| Antimony [µg/g]         | < 0.8         | < 0.8         | < 0.8         | < 0.8         | 1.1           | 4.1           | < 0.8         | < 0.8         | < 0.8         | < 0.8         | < 0.8         | < 0.8         | < 0.8         | < 0.8         | < 0.8         | < 0.8          |
| Selenium [µg/g]         | < 0.7         | < 0.7         | < 0.7         | < 0.7         | < 0.7         | < 0.7         | < 0.7         | < 0.7         | < 0.7         | < 0.7         | < 0.7         | < 0.7         | < 0.7         | < 0.7         | < 0.7         | < 0.7          |
| Tin [µg/g]              | 1.0           | 0.9           | 2.3           | 1.4           | 0.5           | 1.1           | 1.4           | 0.7           | 1.0           | < 0.5         | < 0.5         | 1.6           | 1.4           | 1.7           | 1.8           | 1.3            |
| Strontium [µg/g]        | 260           | 300           | 260           | 230           | 180           | 350           | 270           | 260           | 310           | 260           | 120           | 280           | 37            | 340           | 320           | 710            |
| Titanium [µg/g]         | 3900          | 3300          | 3500          | 4200          | 4900          | 4900          | 2900          | 1900          | 2500          | 1800          | 8400          | 8900          | 2200          | 8400          | 9600          | 6600           |
| Thallium [µg/g]         | 0.44          | 0.41          | 0.51          | 0.37          | 0.27          | 0.02          | 0.49          | 0.40          | 0.53          | 0.37          | 0.18          | 0.17          | 0.34          | 0.08          | 0.02          | 0.06           |
| Uranium [µg/g]          | 1.5           | 1.3           | 1.4           | 1.8           | 0.17          | 0.16          | 1.7           | 1.2           | 1.6           | 1.1           | 0.71          | 0.73          | 1.8           | 0.78          | 0.89          | 0.081          |
| Vanadium [µg/g]         | 81            | 63            | 77            | 90            | 190           | 200           | 54            | 36            | 46            | 31            | 160           | 170           | 35            | 160           | 160           | 180            |
| Yttrium [µg/g]          | 12            | 10            | 10            | 11            | 17            | 17            | 11            | 9.0           | 8.5           | 8.0           | 18            | 20            | 11            | 20            | 23            | 17             |
| Zinc [g/t]              | 81            | 70            | 72            | 83            | 110           | 120           | 64            | 43            | 65            | 39            | 70            | 120           | 36            | 130           | 140           | 87             |

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## Final Report

| Analysis           | 89:<br>T041-02 | 90:<br>T041-03 | 91:<br>T041-04 | 92:<br>T041-05 | 93:<br>R19-02 | 94:<br>B19-01 | 95:<br>B19-02 | 96:<br>R1-01 | 97:<br>R1-02 | 98:<br>R1-03 | 99:<br>T046-05 | 100:<br>R11-04 | 101:<br>R11-05 | 102:<br>R17A-01 |
|--------------------|----------------|----------------|----------------|----------------|---------------|---------------|---------------|--------------|--------------|--------------|----------------|----------------|----------------|-----------------|
| Sample Date & Time |                |                |                |                |               |               |               |              |              |              |                |                |                |                 |
| Silver [µg/g]      | 0.10           | 0.08           | 0.14           | 0.17           | 0.06          | 0.26          | 0.21          | 0.20         | 0.30         | 0.32         | 0.08           | 0.31           | 0.32           | 0.25            |
| Aluminum [µg/g]    | 74000          | 83000          | 71000          | 79000          | 68000         | 77000         | 62000         | 55000        | 78000        | 93000        | 88000          | 86000          | 89000          | 72000           |
| Arsenic [µg/g]     | < 0.5          | 0.5            | < 0.5          | < 0.5          | 12            | 12            | 2.5           | 13           | 25           | 45           | 5.5            | < 0.5          | < 0.5          | 3.7             |
| Barium [µg/g]      | 30             | 26             | 240            | 72             | 61            | 480           | 540           | 270          | 550          | 530          | 71             | 700            | 170            | 100             |
| Beryllium [µg/g]   | 2.5            | 3.4            | 12             | 7.4            | 0.50          | 1.2           | 1.2           | 0.74         | 0.98         | 1.1          | 0.31           | 1.2            | 0.83           | 0.69            |
| Bismuth [µg/g]     | 3.5            | 5.9            | 5.3            | 10             | 0.67          | 0.84          | 0.27          | 0.23         | 0.20         | 0.19         | < 0.09         | 0.12           | < 0.09         | 0.17            |
| Calcium [µg/g]     | 98000          | 103000         | 88000          | 107000         | 82000         | 23000         | 14000         | 28000        | 16000        | 6200         | 56000          | 13000          | 21000          | 58000           |
| Cadmium [µg/g]     | 0.24           | 0.28           | 0.28           | 0.34           | 0.04          | 0.17          | 0.16          | 0.30         | 0.25         | 0.21         | 0.13           | 0.17           | 0.22           | 0.21            |
| Cobalt [µg/g]      | 46             | 43             | 37             | 46             | 38            | 9.1           | 6.7           | 10           | 15           | 21           | 46             | 3.2            | 9.5            | 41              |
| Chromium [µg/g]    | 240            | 250            | 270            | 280            | 350           | 350           | 360           | 220          | 230          | 180          | 250            | 180            | 150            | 150             |
| Copper [µg/g]      | 50             | 39             | 73             | 120            | 26            | 18            | 8.8           | 25           | 42           | 31           | 42             | 6.4            | 18             | 56              |
| Iron [µg/g]        | 90000          | 95000          | 91000          | 86000          | 61000         | 31000         | 22000         | 23000        | 32000        | 45000        | 90000          | 12000          | 29000          | 85000           |
| Potassium [µg/g]   | 2100           | 2200           | 6100           | 2300           | 5300          | 19000         | 20000         | 13000        | 20000        | 25000        | 3400           | 22000          | 10000          | 3100            |
| Lithium [µg/g]     | 15             | 16             | 21             | 11             | 33            | 17            | 12            | 21           | 23           | 43           | 26             | 14             | 14             | 28              |
| Magnesium [µg/g]   | 39000          | 36000          | 35000          | 34000          | 37000         | 9000          | 6300          | 7700         | 12000        | 16000        | 31000          | 3000           | 10000          | 44000           |
| Manganese [µg/g]   | 1300           | 1300           | 1400           | 1600           | 750           | 360           | 240           | 400          | 470          | 310          | 1400           | 99             | 440            | 1000            |
| Molybdenum [µg/g]  | 14             | 6.1            | 12             | 16             | 1.4           | 1.8           | 7.8           | 1.1          | 2.9          | 1.7          | 1.3            | 0.7            | 2.2            | 0.4             |
| Sodium [µg/g]      | 13000          | 13000          | 17000          | 13000          | 11000         | 25000         | 22000         | 19000        | 23000        | 21000        | 21000          | 37000          | 38000          | 19000           |



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LR Report :

CA10319-AUG10

| Analysis                | 89:<br>T041-02 | 90:<br>T041-03 | 91:<br>T041-04 | 92:<br>T041-05 | 93:<br>R19-02 | 94:<br>B19-01 | 95:<br>B19-02 | 96:<br>R1-01 | 97:<br>R1-02 | 98:<br>R1-03 | 99:<br>T046-05 | 100:<br>R11-04 | 101:<br>R11-05 | 102:<br>R17A-01 |
|-------------------------|----------------|----------------|----------------|----------------|---------------|---------------|---------------|--------------|--------------|--------------|----------------|----------------|----------------|-----------------|
| Nickel [µg/g]           | 98             | 97             | 74             | 84             | 63            | 23            | 19            | 34           | 50           | 66           | 110            | 5.1            | 15             | 83              |
| Total Phosphorus [µg/g] | 340            | 340            | 350            | 350            | 220           | 550           | 390           | 270          | 500          | 560          | 490            | 290            | 740            | 310             |
| Lead [µg/g]             | 4.4            | 5.5            | 6.4            | 7.0            | 1.5           | 13            | 13            | 11           | 11           | 12           | 4.1            | 17             | 8.1            | 51              |
| Antimony [µg/g]         | < 0.8          | < 0.8          | < 0.8          | < 0.8          | 2.0           | < 0.8         | < 0.8         | < 0.8        | < 0.8        | < 0.8        | < 0.8          | < 0.8          | < 0.8          | 2.4             |
| Selenium [µg/g]         | < 0.7          | < 0.7          | < 0.7          | < 0.7          | < 0.7         | < 0.7         | < 0.7         | < 0.7        | < 0.7        | < 0.7        | < 0.7          | < 0.7          | < 0.7          | < 0.7           |
| Tin [µg/g]              | 1.3            | 2.0            | 1.9            | 2.3            | 1.2           | 1.6           | 2.2           | 1.3          | 1.2          | 1.2          | 1.1            | 0.9            | 1.5            | 0.7             |
| Strontium [µg/g]        | 190            | 190            | 190            | 240            | 420           | 330           | 280           | 290          | 280          | 230          | 110            | 410            | 250            | 380             |
| Titanium [µg/g]         | 7200           | 7100           | 6800           | 6200           | 3700          | 2600          | 1700          | 900          | 1100         | 1300         | 9000           | 1400           | 2800           | 5200            |
| Thallium [µg/g]         | < 0.02         | 0.05           | 0.56           | 0.11           | 0.06          | 0.37          | 0.42          | 0.23         | 0.40         | 0.51         | 0.09           | 0.34           | 0.06           | 0.05            |
| Uranium [µg/g]          | 0.21           | 0.24           | 0.23           | 0.22           | 0.38          | 1.5           | 1.2           | 0.90         | 1.7          | 1.7          | 0.14           | 1.7            | 0.39           | 0.16            |
| Vanadium [µg/g]         | 190            | 190            | 200            | 180            | 150           | 45            | 28            | 36           | 67           | 97           | 240            | 11             | 39             | 200             |
| Yttrium [µg/g]          | 19             | 18             | 17             | 20             | 12            | 10            | 7.9           | 7.2          | 8.3          | 9.9          | 23             | 5.5            | 7.1            | 18              |
| Zinc [g/t]              | 87             | 89             | 120            | 100            | 63            | 55            | 45            | 52           | 67           | 94           | 110            | 50             | 160            | 250             |

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Wednesday, September 15, 2010

**Date Rec. :** 19 August 2010

**LR Report:** CA10319-AUG10

**Reference:** Meliadine (Golder10-1127-0101)

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# CERTIFICATE OF ANALYSIS

## Final Report

| Analysis           | 103:<br>R19-01 | 104:<br>B13-02 A | 105:<br>R19-03 | 106:<br>T046-01 | 107:<br>T046-02 | 108:<br>T046-03 | 109:<br>T046-04 | 110:<br>Itivia-01 | 111:<br>Itivia-02 | 112:<br>Itivia-03 | 113:<br>Itivia-04 | 114:<br>B13-02 B |
|--------------------|----------------|------------------|----------------|-----------------|-----------------|-----------------|-----------------|-------------------|-------------------|-------------------|-------------------|------------------|
| Sample Date & Time |                |                  |                |                 |                 |                 |                 |                   |                   |                   |                   |                  |
| Silver [µg/g]      | 0.28           | 0.28             | 0.26           | 0.03            | 0.06            | 0.12            | 0.08            | 0.10              | 0.10              | 0.09              | 0.07              | 0.23             |
| Aluminum [µg/g]    | 74000          | 65000            | 73000          | 82000           | 81000           | 84000           | 86000           | 57000             | 64000             | 62000             | 55000             | 66000            |
| Arsenic [µg/g]     | 0.6            | 2.3              | 0.8            | 104             | 121             | 11              | 2.6             | < 0.5             | < 0.5             | 0.9               | < 0.5             | 29               |
| Barium [µg/g]      | 96             | 460              | 88             | 270             | 50              | 28              | 100             | 80                | 89                | 100               | 92                | 420              |
| Beryllium [µg/g]   | 0.46           | 0.95             | 0.45           | 0.45            | 0.47            | 0.31            | 0.18            | 0.27              | 0.26              | 0.25              | 0.26              | 0.89             |
| Bismuth [µg/g]     | < 0.09         | 0.62             | < 0.09         | 0.10            | 0.12            | < 0.09          | < 0.09          | < 0.09            | < 0.09            | < 0.09            | < 0.09            | 0.18             |
| Calcium [µg/g]     | 77000          | 18000            | 76000          | 72000           | 84000           | 88000           | 77000           | 78000             | 76000             | 83000             | 84000             | 21000            |
| Cadmium [µg/g]     | 0.22           | 0.23             | 0.21           | 0.15            | 0.19            | 0.17            | 0.23            | 0.13              | 0.15              | 0.15              | 0.12              | 0.17             |
| Cobalt [µg/g]      | 43             | 15               | 43             | 51              | 52              | 48              | 45              | 55                | 58                | 58                | 54                | 17               |
| Chromium [µg/g]    | 210            | 330              | 200            | 200             | 250             | 270             | 240             | 630               | 620               | 670               | 640               | 300              |
| Copper [µg/g]      | 180            | 14               | 180            | 19              | 26              | 110             | 51              | 100               | 120               | 95                | 79                | 18               |
| Iron [µg/g]        | 93000          | 45000            | 92000          | 88000           | 76000           | 91000           | 97000           | 83000             | 85000             | 85000             | 83000             | 45000            |
| Potassium [µg/g]   | 4000           | 17000            | 4000           | 6600            | 2300            | 2200            | 5500            | 2900              | 3200              | 3700              | 3700              | 15000            |
| Lithium [µg/g]     | 2              | 12               | 8              | 29              | 21              | 22              | 29              | 8                 | 8                 | 10                | 8                 | 18               |
| Magnesium [µg/g]   | 42000          | 14000            | 43000          | 45000           | 37000           | 45000           | 28000           | 61000             | 65000             | 65000             | 62000             | 15000            |
| Manganese [µg/g]   | 1000           | 440              | 1000           | 1100            | 1100            | 1200            | 1900            | 1100              | 980               | 1100              | 1100              | 440              |
| Molybdenum [µg/g]  | 1.5            | 3.0              | 0.6            | 0.8             | 0.4             | 0.7             | 0.4             | 0.8               | 0.4               | 0.9               | 0.4               | 7.3              |
| Sodium [µg/g]      | 16000          | 20000            | 16000          | 18000           | 20000           | 17000           | 14000           | 14000             | 14000             | 10000             | 10000             | 21000            |



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LR Report :

CA10319-AUG10

| Analysis                | 103:<br>R19-01 | 104:<br>B13-02 A | 105:<br>R19-03 | 106:<br>T046-01 | 107:<br>T046-02 | 108:<br>T046-03 | 109:<br>T046-04 | 110:<br>Itivia-01 | 111:<br>Itivia-02 | 112:<br>Itivia-03 | 113:<br>Itivia-04 | 114:<br>B13-02 B |
|-------------------------|----------------|------------------|----------------|-----------------|-----------------|-----------------|-----------------|-------------------|-------------------|-------------------|-------------------|------------------|
| Nickel [µg/g]           | 85             | 37               | 88             | 130             | 140             | 120             | 120             | 220               | 230               | 240               | 220               | 33               |
| Total Phosphorus [µg/g] | 580            | 650              | 540            | 260             | 340             | 310             | 450             | 260               | 280               | 290               | 270               | 540              |
| Lead [µg/g]             | 1.8            | 8.7              | 1.5            | 2.9             | 3.3             | 1.6             | 3.4             | 1.1               | 1.2               | 1.2               | 1.1               | 9.0              |
| Antimony [µg/g]         | < 0.8          | < 0.8            | < 0.8          | < 0.8           | < 0.8           | 0.9             | < 0.8           | < 0.8             | < 0.8             | < 0.8             | < 0.8             | < 0.8            |
| Selenium [µg/g]         | < 0.7          | < 0.7            | < 0.7          | < 0.7           | < 0.7           | < 0.7           | < 0.7           | < 0.7             | < 0.7             | < 0.7             | < 0.7             | < 0.7            |
| Tin [µg/g]              | 1.2            | 1.1              | 1.4            | 1.5             | 0.9             | 1.1             | 1.1             | 0.9               | 0.9               | 0.7               | 0.7               | 0.7              |
| Strontium [µg/g]        | 170            | 230              | 170            | 250             | 100             | 130             | 160             | 130               | 160               | 160               | 130               | 210              |
| Titanium [µg/g]         | 9900           | 3400             | 9700           | 5000            | 5300            | 5800            | 8400            | 5200              | 5500              | 5300              | 5200              | 3600             |
| Thallium [µg/g]         | 0.04           | 0.28             | 0.05           | 0.21            | 0.03            | < 0.02          | 0.15            | < 0.02            | 0.02              | 0.04              | 0.03              | 0.27             |
| Uranium [µg/g]          | 0.31           | 1.7              | 0.30           | 0.063           | 0.22            | 0.15            | 0.12            | 0.16              | 0.18              | 0.23              | 0.16              | 2.1              |
| Vanadium [µg/g]         | 260            | 64               | 260            | 190             | 190             | 200             | 240             | 190               | 190               | 190               | 190               | 66               |
| Yttrium [µg/g]          | 21             | 11               | 21             | 19              | 17              | 19              | 24              | 14                | 16                | 15                | 14                | 11               |
| Zinc [g/t]              | 99             | 58               | 81             | 97              | 110             | 92              | 110             | 76                | 80                | 80                | 72                | 66               |

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Wednesday, September 15, 2010

**Date Rec. :** 19 August 2010

**LR Report:** CA10319-AUG10

**Reference:** Meliadine (Golder10-1127-0101)

**Copy:** #1

# CERTIFICATE OF ANALYSIS

## Final Report

| Analysis           | 3:<br>Analysis<br>Approval<br>Date | 4:<br>Analysis<br>Approval<br>Time | 5:<br>R350-01 | 6:<br>R350-02 | 7:<br>R350-03 | 8:<br>R350-04 | 9:<br>R359-01 | 10:<br>T43-04 | 11:<br>R359-02 | 12:<br>R359-03 | 13:<br>R2-01 | 14:<br>R2-02 | 15:<br>R2-03 | 16:<br>R82-03 | 17:<br>R280-01 | 18:<br>R280-02 |
|--------------------|------------------------------------|------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|--------------|--------------|--------------|---------------|----------------|----------------|
| Sample Date & Time |                                    |                                    |               |               |               |               |               |               |                |                |              |              |              |               |                |                |
| Silver [µg/g]      | 10-Sep-10                          | 10:04                              | 0.17          | 0.15          | 0.18          | 0.15          | 0.18          | 0.48          | 0.55           | 0.15           | 0.24         | 0.31         | 0.39         | 0.07          | 0.11           | 0.11           |
| Aluminum [µg/g]    | 14-Sep-10                          | 11:56                              | 40000         | 55000         | 60000         | 60000         | 70000         | 68000         | 85000          | 82000          | 76000        | 65000        | 82000        | 76000         | 90000          | 92000          |
| Arsenic [µg/g]     | 10-Sep-10                          | 10:04                              | < 0.5         | < 0.5         | < 0.5         | < 0.5         | 4.5           | < 0.5         | < 0.5          | 4.0            | 2.7          | 0.8          | < 0.5        | < 0.5         | < 0.5          | < 0.5          |
| Barium [µg/g]      | 10-Sep-10                          | 10:04                              | 210           | 180           | 170           | 320           | 250           | 44            | 280            | 260            | 210          | 310          | 66           | 91            | 510            | 490            |
| Beryllium [µg/g]   | 10-Sep-10                          | 10:04                              | 0.79          | 0.71          | 0.68          | 0.71          | 0.64          | 11            | 0.67           | 0.69           | 0.63         | 0.76         | 0.54         | 1.2           | 0.87           | 0.90           |
| Bismuth [µg/g]     | 10-Sep-10                          | 10:04                              | < 0.09        | < 0.09        | < 0.09        | < 0.09        | < 0.09        | 18            | 1.3            | 0.29           | 0.24         | 0.20         | 0.17         | 0.93          | < 0.09         | < 0.09         |
| Calcium [µg/g]     | 14-Sep-10                          | 11:57                              | 61000         | 53000         | 58000         | 59000         | 62000         | 120000        | 60000          | 64000          | 62000        | 56000        | 57000        | 80000         | 22000          | 21000          |
| Cadmium [µg/g]     | 10-Sep-10                          | 10:03                              | 0.12          | 0.09          | 0.07          | 0.12          | 0.14          | 0.43          | 0.32           | 0.13           | 0.20         | 0.29         | 0.31         | 0.17          | 0.06           | 0.07           |
| Cobalt [µg/g]      | 10-Sep-10                          | 10:03                              | 49            | 49            | 45            | 48            | 50            | 45            | 51             | 42             | 41           | 49           | 51           | 46            | 3.9            | 3.8            |
| Chromium [µg/g]    | 10-Sep-10                          | 10:03                              | 140           | 130           | 130           | 140           | 120           | 400           | 110            | 130            | 100          | 98           | 77           | 240           | 120            | 150            |
| Copper [µg/g]      | 10-Sep-10                          | 10:03                              | 110           | 95            | 140           | 63            | 110           | 170           | 630            | 50             | 150          | 120          | 170          | 31            | 2.5            | 2.8            |
| Iron [µg/g]        | 14-Sep-10                          | 11:58                              | 100000        | 81000         | 99000         | 100000        | 98000         | 66000         | 97000          | 93000          | 92000        | 100000       | 97000        | 100000        | 14000          | 13000          |
| Potassium [µg/g]   | 14-Sep-10                          | 11:59                              | 6000          | 6100          | 5200          | 8900          | 8500          | 1500          | 7900           | 7400           | 8100         | 7200         | 3800         | 3600          | 13000          | 12000          |
| Lithium [µg/g]     | 10-Sep-10                          | 10:03                              | 11            | 9             | 7             | 9             | 8             | 8             | 7              | 5              | 9            | 5            | 4            | 24            | 10             | 10             |
| Magnesium [µg/g]   | 14-Sep-10                          | 11:59                              | 21000         | 17000         | 27000         | 29000         | 29000         | 28000         | 33000          | 32000          | 28000        | 30000        | 36000        | 34000         | 5000           | 4700           |
| Manganese [µg/g]   | 10-Sep-10                          | 10:03                              | 1200          | 830           | 1100          | 1200          | 1100          | 1300          | 1100           | 1000           | 1000         | 1200         | 1100         | 1300          | 98             | 79             |
| Molybdenum [µg/g]  | 10-Sep-10                          | 10:03                              | 0.7           | 0.9           | 0.7           | 0.9           | 0.7           | 8.6           | 0.7            | 0.7            | 0.8          | 0.8          | 0.7          | 5.3           | 0.7            | 0.5            |
| Sodium [µg/g]      | 14-Sep-10                          | 12:02                              | 21000         | 23000         | 24000         | 19000         | 20000         | 4600          | 23000          | 21000          | 18000        | 23000        | 27000        | 19000         | 39000          | 40000          |

Online LIMS



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LR Report :

CA10319-AUG10

| Analysis                | 3:<br>Analysis<br>Approval<br>Date | 4:<br>Analysis<br>Approval<br>Time | 5:<br>R350-01 | 6:<br>R350-02 | 7:<br>R350-03 | 8:<br>R350-04 | 9:<br>R359-01 | 10:<br>T43-04 | 11:<br>R359-02 | 12:<br>R359-03 | 13:<br>R2-01 | 14:<br>R2-02 | 15:<br>R2-03 | 16:<br>R82-03 | 17:<br>R280-01 | 18:<br>R280-02 |
|-------------------------|------------------------------------|------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|--------------|--------------|--------------|---------------|----------------|----------------|
| Nickel [µg/g]           | 10-Sep-10                          | 10:03                              | 110           | 110           | 96            | 97            | 110           | 120           | 100            | 96             | 86           | 110          | 110          | 89            | 4.3            | 4.2            |
| Total Phosphorus [µg/g] | 14-Sep-10                          | 12:00                              | 620           | 640           | 620           | 650           | 660           | 220           | 650            | 660            | 410          | 660          | 720          | 370           | 230            | 230            |
| Lead [µg/g]             | 10-Sep-10                          | 10:03                              | 5.6           | 5.3           | 5.8           | 6.5           | 6.4           | 6.3           | 6.9            | 8.9            | 12           | 14           | 6.4          | 4.6           | 2.5            | 2.9            |
| Antimony [µg/g]         | 10-Sep-10                          | 10:03                              | < 0.8         | < 0.8         | < 0.8         | < 0.8         | < 0.8         | < 0.8         | < 0.8          | < 0.8          | < 0.8        | < 0.8        | < 0.8        | < 0.8         | < 0.8          | < 0.8          |
| Selenium [µg/g]         | 10-Sep-10                          | 10:03                              | < 0.7         | < 0.7         | < 0.7         | < 0.7         | < 0.7         | < 0.7         | < 0.7          | < 0.7          | < 0.7        | < 0.7        | < 0.7        | < 0.7         | < 0.7          | < 0.7          |
| Tin [µg/g]              | 10-Sep-10                          | 10:03                              | 2.0           | 2.3           | 2.4           | 2.2           | 1.7           | 5.2           | 1.8            | 4.7            | 1.5          | 2.1          | 1.2          | 1.7           | 0.8            | 0.8            |
| Strontium [µg/g]        | 10-Sep-10                          | 10:03                              | 210           | 220           | 220           | 160           | 200           | 230           | 220            | 240            | 440          | 220          | 97           | 240           | 400            | 420            |
| Titanium [µg/g]         | 14-Sep-10                          | 12:03                              | 7800          | 7500          | 7100          | 7700          | 7600          | 4800          | 7600           | 7600           | 5200         | 8400         | 9000         | 6800          | 1200           | 1100           |
| Thallium [µg/g]         | 10-Sep-10                          | 10:03                              | 0.08          | 0.09          | 0.06          | 0.11          | 0.10          | 0.10          | 0.11           | 0.08           | 0.11         | 0.13         | 0.04         | 0.06          | 0.08           | 0.09           |
| Uranium [µg/g]          | 10-Sep-10                          | 10:03                              | 0.72          | 0.56          | 0.68          | 0.73          | 0.76          | 0.18          | 0.76           | 0.73           | 0.85         | 0.74         | 0.80         | 0.14          | 0.43           | 0.42           |
| Vanadium [µg/g]         | 10-Sep-10                          | 10:03                              | 190           | 160           | 160           | 170           | 170           | 200           | 160            | 160            | 120          | 180          | 180          | 240           | 15             | 14             |
| Yttrium [µg/g]          | 10-Sep-10                          | 10:03                              | 12            | 12            | 13            | 15            | 15            | 13            | 17             | 17             | 13           | 16           | 20           | 17            | 2.1            | 2.1            |
| Zinc [g/t]              | 10-Sep-10                          | 10:03                              | 110           | 85            | 100           | 110           | 100           | 71            | 110            | 96             | 89           | 110          | 120          | 110           | 35             | 32             |

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Monday, September 20, 2010

**Date Rec. :** 19 August 2010

**LR Report:** CA10320-AUG10

**Reference:** Meliadine (Golder 10-1127-0101)

**Copy:** #1

# CERTIFICATE OF ANALYSIS

## Final Report

| Sample ID   | SiO2<br>% | Al2O3<br>% | Fe2O3<br>% | MgO<br>% | CaO<br>% | Na2O<br>% | K2O<br>% | TiO2<br>% | P2O5<br>% | MnO<br>% | Cr2O3<br>% | V2O5<br>% | LOI<br>% | Sum<br>% |
|-------------|-----------|------------|------------|----------|----------|-----------|----------|-----------|-----------|----------|------------|-----------|----------|----------|
| 5: R350-01  | 50.0      | 15.1       | 14.2       | 5.73     | 8.78     | 2.85      | 0.60     | 1.22      | 0.14      | 0.21     | 0.02       | 0.04      | 0.66     | 99.5     |
| 6: R350-02  | 50.2      | 17.0       | 12.1       | 5.26     | 8.30     | 4.33      | 0.56     | 1.18      | 0.14      | 0.17     | 0.01       | 0.04      | 0.66     | 99.9     |
| 7: R350-03  | 50.2      | 15.1       | 14.2       | 5.70     | 8.52     | 3.24      | 0.47     | 1.13      | 0.14      | 0.21     | 0.03       | 0.03      | 0.80     | 99.8     |
| 8: R350-04  | 51.7      | 14.2       | 14.3       | 5.81     | 8.53     | 2.43      | 0.81     | 1.20      | 0.15      | 0.21     | 0.03       | 0.04      | 0.69     | 100.0    |
| 9: R359-01  | 50.7      | 15.4       | 13.8       | 5.53     | 8.83     | 2.67      | 0.77     | 1.17      | 0.15      | 0.20     | 0.01       | 0.04      | 0.85     | 100.2    |
| 10: T43-04  | 49.2      | 14.1       | 9.45       | 5.25     | 17.9     | 0.53      | 0.13     | 0.76      | 0.05      | 0.25     | 0.07       | 0.05      | 1.83     | 99.6     |
| 11: R359-02 | 49.3      | 15.4       | 13.8       | 5.41     | 8.58     | 3.10      | 0.70     | 1.19      | 0.15      | 0.21     | 0.02       | 0.03      | 1.43     | 99.3     |
| 12: R359-03 | 50.4      | 15.7       | 13.3       | 5.51     | 9.34     | 2.74      | 0.66     | 1.20      | 0.14      | 0.20     | 0.02       | 0.04      | 0.66     | 99.9     |
| 13: R2-01   | 53.9      | 13.8       | 13.1       | 4.47     | 8.89     | 2.11      | 0.72     | 0.82      | 0.09      | 0.18     | 0.02       | 0.03      | 1.79     | 99.9     |
| 14: R2-02   | 50.3      | 14.8       | 14.7       | 5.83     | 8.23     | 3.19      | 0.64     | 1.36      | 0.15      | 0.22     | 0.02       | 0.05      | 0.99     | 100.5    |
| 15: R2-03   | 48.0      | 15.9       | 13.7       | 6.27     | 8.14     | 3.70      | 0.33     | 1.41      | 0.16      | 0.22     | < 0.01     | 0.03      | 1.30     | 99.2     |
| 16: R82-03  | 47.6      | 15.4       | 14.5       | 6.10     | 11.7     | 2.33      | 0.33     | 1.07      | 0.08      | 0.25     | 0.05       | 0.06      | 0.68     | 100.1    |
| 17: R280-01 | 68.3      | 16.6       | 1.74       | 0.78     | 3.01     | 5.60      | 1.13     | 0.18      | 0.04      | 0.05     | 0.02       | < 0.01    | 1.03     | 98.5     |
| 18: R280-02 | 69.1      | 17.0       | 1.68       | 0.78     | 3.00     | 5.79      | 1.11     | 0.18      | 0.04      | 0.05     | 0.02       | < 0.01    | 0.93     | 99.6     |
| 19: B8-01   | 66.8      | 14.4       | 5.12       | 2.20     | 2.11     | 3.43      | 2.16     | 0.50      | 0.11      | 0.10     | 0.05       | 0.02      | 2.94     | 100.0    |
| 20: B8-02   | 68.1      | 13.6       | 4.75       | 1.95     | 2.17     | 3.41      | 1.89     | 0.43      | 0.09      | 0.10     | 0.05       | 0.01      | 3.18     | 99.7     |
| 21: B8-03   | 65.7      | 14.6       | 5.19       | 2.25     | 2.34     | 3.54      | 2.03     | 0.50      | 0.12      | 0.10     | 0.05       | 0.01      | 2.98     | 99.5     |
| 22: B6A-01  | 69.7      | 13.3       | 4.70       | 1.97     | 2.36     | 3.40      | 1.78     | 0.44      | 0.09      | 0.10     | 0.05       | 0.01      | 1.78     | 99.8     |
| 23: B6A-02  | 71.7      | 12.5       | 4.05       | 1.63     | 2.12     | 3.28      | 1.75     | 0.38      | 0.08      | 0.09     | 0.06       | 0.01      | 1.86     | 99.6     |
| 24: B6A-03  | 71.1      | 13.2       | 4.00       | 1.60     | 1.83     | 3.57      | 1.86     | 0.39      | 0.09      | 0.08     | 0.04       | < 0.01    | 1.82     | 99.5     |
| 25: B5-01   | 68.2      | 13.8       | 5.17       | 1.94     | 2.04     | 3.48      | 1.91     | 0.49      | 0.11      | 0.10     | 0.04       | 0.02      | 2.91     | 100.2    |



SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.

Lakefield - Ontario - KOL 2H0

Phone: 705-652-2000 FAX: 705-652-6365

LR Report :

CA10320-AUG10

| Sample ID  | SiO2<br>% | Al2O3<br>% | Fe2O3<br>% | MgO<br>% | CaO<br>% | Na2O<br>% | K2O<br>% | TiO2<br>% | P2O5<br>% | MnO<br>% | Cr2O3<br>% | V2O5<br>% | LOI<br>% | Sum<br>% |
|------------|-----------|------------|------------|----------|----------|-----------|----------|-----------|-----------|----------|------------|-----------|----------|----------|
| 26: B5-02  | 69.3      | 13.0       | 5.16       | 1.87     | 2.43     | 3.22      | 1.92     | 0.52      | 0.14      | 0.10     | 0.05       | 0.02      | 1.91     | 99.6     |
| 27: B5-03  | 69.0      | 13.8       | 4.70       | 1.95     | 2.36     | 3.53      | 2.03     | 0.46      | 0.12      | 0.08     | 0.04       | 0.01      | 2.92     | 101.0    |
| 28: B10-01 | 67.8      | 14.0       | 4.76       | 1.86     | 2.40     | 3.75      | 1.68     | 0.48      | 0.10      | 0.09     | 0.04       | 0.01      | 3.13     | 100.2    |
| 29: B3-01  | 71.3      | 12.6       | 3.87       | 1.37     | 2.11     | 3.28      | 2.04     | 0.43      | 0.14      | 0.07     | 0.04       | < 0.01    | 1.78     | 99.1     |
| 30: B3-02  | 71.2      | 13.1       | 4.08       | 1.54     | 2.51     | 3.32      | 2.14     | 0.45      | 0.14      | 0.08     | 0.04       | 0.02      | 2.17     | 100.7    |
| 31: B3-03  | 69.3      | 13.0       | 4.78       | 1.81     | 3.00     | 3.16      | 1.88     | 0.51      | 0.13      | 0.09     | 0.05       | 0.01      | 3.12     | 100.7    |
| 32: B1A-01 | 65.2      | 15.8       | 5.64       | 2.18     | 1.45     | 3.50      | 2.31     | 0.60      | 0.13      | 0.08     | 0.04       | 0.02      | 3.94     | 100.9    |
| 33: B1A-02 | 66.3      | 14.0       | 5.05       | 1.49     | 1.53     | 3.11      | 1.86     | 0.50      | 0.12      | 0.09     | 0.06       | 0.02      | 6.54     | 100.7    |
| 34: B1A-03 | 64.7      | 15.4       | 6.15       | 2.58     | 1.70     | 3.26      | 2.17     | 0.64      | 0.14      | 0.08     | 0.05       | 0.02      | 3.70     | 100.5    |
| 35: R11-01 | 71.6      | 15.4       | 1.33       | 0.50     | 1.73     | 5.28      | 2.53     | 0.18      | 0.06      | 0.05     | 0.04       | < 0.01    | 1.22     | 100.0    |
| 36: R11-02 | 67.0      | 16.6       | 2.94       | 1.02     | 3.65     | 5.00      | 1.58     | 0.32      | 0.08      | 0.09     | 0.02       | < 0.01    | 1.67     | 99.9     |
| 37: R11-03 | 65.8      | 17.4       | 3.51       | 1.38     | 3.83     | 5.31      | 1.25     | 0.38      | 0.08      | 0.09     | 0.03       | < 0.01    | 1.29     | 100.4    |
| 38: T43-01 | 50.2      | 15.6       | 11.3       | 7.02     | 11.9     | 2.21      | 0.27     | 0.87      | 0.05      | 0.19     | 0.07       | 0.05      | 0.87     | 100.6    |
| 39: T43-02 | 49.0      | 15.8       | 11.5       | 6.71     | 14.1     | 1.57      | 0.19     | 0.88      | 0.06      | 0.23     | 0.07       | 0.05      | 1.21     | 101.4    |
| 40: T43-03 | 48.3      | 16.1       | 10.9       | 6.85     | 13.1     | 1.81      | 0.33     | 0.85      | 0.05      | 0.20     | 0.07       | 0.06      | 2.38     | 101.1    |
| 41: T43-05 | 52.5      | 16.2       | 10.1       | 6.08     | 6.53     | 3.30      | 0.70     | 0.80      | 0.05      | 0.17     | 0.07       | 0.05      | 3.30     | 99.8     |
| 42: R82-01 | 48.7      | 15.8       | 14.0       | 5.60     | 10.1     | 3.01      | 0.64     | 1.16      | 0.09      | 0.21     | 0.05       | 0.05      | 1.11     | 100.6    |
| 43: R82-02 | 47.7      | 15.3       | 15.5       | 6.27     | 10.0     | 2.50      | 0.74     | 1.27      | 0.11      | 0.24     | 0.04       | 0.06      | 0.99     | 100.8    |
| 44: B12-01 | 68.3      | 13.8       | 5.03       | 2.02     | 2.51     | 3.39      | 1.77     | 0.49      | 0.10      | 0.10     | 0.06       | 0.01      | 2.53     | 100.1    |
| 45: B12-02 | 69.2      | 13.8       | 4.99       | 2.02     | 2.72     | 3.39      | 1.81     | 0.47      | 0.11      | 0.09     | 0.04       | 0.01      | 1.50     | 100.2    |
| 46: B12-03 | 69.4      | 14.0       | 4.81       | 2.03     | 2.46     | 3.44      | 1.82     | 0.47      | 0.10      | 0.08     | 0.05       | 0.02      | 2.29     | 101.0    |
| 47: R9-01  | 51.6      | 14.4       | 10.8       | 5.80     | 12.9     | 2.42      | 0.20     | 0.89      | 0.06      | 0.23     | 0.05       | 0.05      | 1.42     | 100.8    |
| 48: R9-02  | 58.5      | 13.1       | 7.81       | 4.56     | 11.3     | 1.43      | 0.67     | 0.66      | 0.09      | 0.19     | 0.07       | 0.04      | 1.28     | 99.7     |
| 49: R9-03  | 51.2      | 17.0       | 9.96       | 6.88     | 10.5     | 3.05      | 0.30     | 0.95      | 0.06      | 0.17     | 0.06       | 0.06      | 0.88     | 101.0    |
| 50: B11A-1 | 66.0      | 14.6       | 5.94       | 2.36     | 2.96     | 3.55      | 1.86     | 0.54      | 0.12      | 0.10     | 0.05       | 0.02      | 2.45     | 100.5    |
| 51: B11A-2 | 66.4      | 15.2       | 4.69       | 1.98     | 2.51     | 3.46      | 2.28     | 0.52      | 0.11      | 0.08     | 0.05       | 0.02      | 2.54     | 99.8     |
| 52: B11A-3 | 67.8      | 13.9       | 4.74       | 1.79     | 2.48     | 3.54      | 1.90     | 0.44      | 0.10      | 0.08     | 0.05       | 0.02      | 3.34     | 100.2    |
| 53: R7-01  | 48.2      | 15.9       | 11.7       | 8.75     | 10.8     | 2.73      | 0.17     | 0.87      | 0.07      | 0.18     | 0.06       | 0.05      | 1.03     | 100.5    |
| 54: R7-02  | 49.5      | 15.0       | 12.1       | 5.61     | 14.2     | 1.60      | 0.20     | 0.99      | 0.09      | 0.28     | 0.05       | 0.05      | 0.95     | 100.7    |
| 55: R7-03  | 50.4      | 15.5       | 12.6       | 6.08     | 11.2     | 2.47      | 0.48     | 1.07      | 0.08      | 0.23     | 0.06       | 0.06      | 0.91     | 101.2    |
| 56: R7-04  | 48.8      | 14.8       | 12.6       | 6.96     | 11.3     | 2.72      | 0.17     | 1.01      | 0.08      | 0.22     | 0.05       | 0.06      | 0.60     | 99.4     |
| 57: R7-05  | 51.4      | 14.9       | 11.6       | 5.61     | 12.6     | 2.11      | 0.18     | 0.92      | 0.07      | 0.24     | 0.05       | 0.05      | 1.00     | 100.7    |
| 58: B10-02 | 66.4      | 14.2       | 5.40       | 2.10     | 2.79     | 3.77      | 1.60     | 0.49      | 0.11      | 0.10     | 0.05       | 0.01      | 2.38     | 99.4     |
| 59: R5-01  | 69.4      | 17.0       | 1.58       | 0.64     | 3.20     | 5.75      | 1.27     | 0.17      | 0.05      | 0.04     | 0.03       | < 0.01    | 0.92     | 100.1    |
| 60: R5-02  | 69.4      | 16.7       | 1.70       | 0.64     | 3.33     | 5.77      | 0.95     | 0.18      | 0.05      | 0.04     | 0.03       | < 0.01    | 0.79     | 99.6     |
| 61: R5-03  | 69.8      | 16.7       | 1.73       | 0.56     | 3.15     | 5.92      | 0.98     | 0.17      | 0.05      | 0.03     | 0.03       | < 0.01    | 0.90     | 100.1    |



SGS Canada Inc.

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Lakefield - Ontario - K0L 2H0

Phone: 705-652-2000 FAX: 705-652-6365

LR Report :

CA10320-AUG10

| Sample ID   | SiO2<br>% | Al2O3<br>% | Fe2O3<br>% | MgO<br>% | CaO<br>% | Na2O<br>% | K2O<br>% | TiO2<br>% | P2O5<br>% | MnO<br>% | Cr2O3<br>% | V2O5<br>% | LOI<br>% | Sum<br>% |
|-------------|-----------|------------|------------|----------|----------|-----------|----------|-----------|-----------|----------|------------|-----------|----------|----------|
| 62: R280-03 | 70.7      | 16.5       | 1.64       | 0.73     | 3.17     | 5.53      | 1.12     | 0.17      | 0.05      | 0.03     | 0.03       | < 0.01    | 0.99     | 100.6    |
| 63: B10-03  | 68.0      | 14.5       | 4.91       | 1.94     | 2.90     | 4.00      | 1.53     | 0.49      | 0.11      | 0.09     | 0.05       | 0.02      | 2.13     | 100.6    |
| 64: R16-01  | 50.6      | 14.1       | 11.4       | 7.12     | 9.84     | 1.81      | 0.37     | 0.82      | 0.06      | 0.19     | 0.02       | 0.05      | 3.49     | 99.9     |
| 65: R16-02  | 50.6      | 14.5       | 11.6       | 7.61     | 9.83     | 1.98      | 0.36     | 0.84      | 0.07      | 0.19     | 0.03       | 0.06      | 2.58     | 100.2    |
| 66: R16-03  | 51.3      | 14.0       | 11.4       | 7.11     | 9.72     | 1.80      | 0.57     | 0.82      | 0.07      | 0.19     | 0.03       | 0.06      | 3.03     | 100.0    |
| 67: R16-04  | 51.7      | 14.0       | 11.0       | 6.92     | 11.0     | 2.35      | 0.23     | 0.82      | 0.07      | 0.20     | 0.03       | 0.06      | 2.18     | 100.6    |
| 68: R16-05  | 55.5      | 17.2       | 8.97       | 5.54     | 5.52     | 3.58      | 0.21     | 0.35      | 0.05      | 0.14     | 0.03       | 0.03      | 2.84     | 99.9     |
| 69: R16-06  | 49.0      | 14.4       | 10.2       | 8.89     | 10.2     | 2.03      | 0.59     | 0.67      | 0.06      | 0.17     | 0.08       | 0.05      | 4.12     | 100.5    |
| 70: R16-07  | 51.3      | 14.1       | 11.5       | 7.49     | 11.6     | 2.00      | 0.17     | 0.80      | 0.07      | 0.20     | 0.04       | 0.06      | 1.52     | 100.8    |
| 71: R16-08  | 50.2      | 15.0       | 13.6       | 6.38     | 7.69     | 2.67      | 0.96     | 1.15      | 0.16      | 0.18     | 0.03       | 0.02      | 1.89     | 100.0    |
| 72: R16-09  | 49.0      | 15.2       | 14.0       | 7.14     | 8.20     | 2.52      | 0.80     | 1.02      | 0.14      | 0.18     | 0.02       | 0.03      | 2.16     | 100.4    |
| 73: B18-01  | 65.1      | 15.7       | 6.23       | 2.84     | 2.39     | 3.32      | 2.13     | 0.62      | 0.13      | 0.09     | 0.05       | 0.02      | 2.13     | 100.8    |
| 74: B18-02  | 66.8      | 14.3       | 5.50       | 2.23     | 2.61     | 3.34      | 1.87     | 0.56      | 0.12      | 0.08     | 0.05       | 0.02      | 2.71     | 100.2    |
| 75: B18-03  | 66.3      | 14.3       | 5.61       | 2.41     | 2.33     | 3.10      | 2.14     | 0.58      | 0.12      | 0.10     | 0.04       | 0.02      | 2.54     | 99.7     |
| 76: R17-01  | 63.7      | 16.6       | 5.81       | 2.77     | 1.29     | 3.32      | 2.17     | 0.66      | 0.13      | 0.09     | 0.03       | 0.02      | 2.59     | 99.2     |
| 77: R17-02  | 48.2      | 13.0       | 11.1       | 7.07     | 8.07     | 1.36      | 0.91     | 0.77      | 0.06      | 0.20     | 0.03       | 0.04      | 8.67     | 99.4     |
| 78: R17-03  | 49.8      | 13.8       | 11.1       | 7.41     | 10.7     | 2.31      | 0.16     | 0.79      | 0.06      | 0.20     | 0.03       | 0.05      | 3.54     | 100.0    |
| 79: B15-01  | 69.2      | 13.6       | 5.01       | 1.91     | 2.59     | 3.25      | 2.32     | 0.46      | 0.13      | 0.08     | 0.04       | 0.01      | 2.15     | 100.8    |
| 80: B15-02  | 76.9      | 10.8       | 3.17       | 1.06     | 2.04     | 2.86      | 1.85     | 0.33      | 0.10      | 0.06     | 0.05       | 0.01      | 1.08     | 100.3    |
| 81: B15-03  | 68.1      | 14.3       | 4.14       | 1.66     | 2.55     | 3.57      | 2.47     | 0.39      | 0.11      | 0.08     | 0.04       | 0.01      | 1.58     | 99.1     |
| 82: B19-03  | 76.8      | 10.8       | 2.99       | 1.10     | 2.15     | 2.92      | 1.64     | 0.29      | 0.10      | 0.06     | 0.05       | 0.02      | 1.65     | 100.6    |
| 83: R14-01  | 50.7      | 14.9       | 14.9       | 4.23     | 8.53     | 2.51      | 0.91     | 1.31      | 0.16      | 0.20     | 0.02       | 0.04      | 1.43     | 99.8     |
| 84: R14-02  | 49.9      | 15.0       | 14.8       | 5.17     | 8.58     | 3.04      | 0.85     | 1.35      | 0.16      | 0.19     | < 0.01     | 0.05      | 1.05     | 100.2    |
| 85: R14-03  | 83.3      | 6.87       | 3.55       | 0.93     | 0.25     | 0.46      | 2.00     | 0.53      | 0.07      | 0.05     | 0.05       | < 0.01    | 2.18     | 100.3    |
| 86: R14-04  | 51.9      | 14.3       | 13.9       | 4.62     | 8.87     | 3.13      | 0.59     | 1.28      | 0.16      | 0.23     | 0.02       | 0.04      | 1.41     | 100.4    |
| 87: R14-05  | 52.7      | 14.7       | 13.7       | 4.97     | 7.28     | 3.52      | 0.30     | 1.44      | 0.16      | 0.23     | 0.02       | 0.04      | 0.91     | 100.0    |
| 88: T041-01 | 46.2      | 18.5       | 11.6       | 5.45     | 12.7     | 1.98      | 0.27     | 1.00      | 0.08      | 0.18     | 0.03       | 0.04      | 1.18     | 99.2     |
| 89: T041-02 | 48.8      | 14.2       | 12.7       | 6.55     | 13.9     | 1.56      | 0.18     | 1.11      | 0.08      | 0.24     | 0.04       | 0.04      | 1.07     | 100.4    |
| 90: T041-03 | 47.5      | 15.1       | 13.3       | 5.89     | 14.7     | 1.58      | 0.19     | 1.09      | 0.08      | 0.25     | 0.05       | 0.05      | 1.18     | 100.9    |
| 91: T041-04 | 48.7      | 14.5       | 12.9       | 6.24     | 12.6     | 2.19      | 0.54     | 1.06      | 0.08      | 0.25     | 0.04       | 0.05      | 1.47     | 100.5    |
| 92: T041-05 | 47.7      | 14.6       | 12.3       | 5.65     | 15.5     | 1.59      | 0.20     | 0.98      | 0.09      | 0.30     | 0.05       | 0.05      | 1.73     | 100.8    |
| 93: R19-02  | 48.4      | 14.5       | 8.55       | 6.90     | 11.7     | 1.39      | 0.46     | 0.56      | 0.05      | 0.15     | 0.06       | 0.04      | 7.42     | 100.2    |
| 94: B19-01  | 70.0      | 14.1       | 4.32       | 1.43     | 3.05     | 3.53      | 1.79     | 0.41      | 0.13      | 0.07     | 0.05       | < 0.01    | 1.89     | 100.8    |
| 95: B19-02  | 75.3      | 11.2       | 2.84       | 1.04     | 1.92     | 3.07      | 1.85     | 0.27      | 0.09      | 0.06     | 0.07       | < 0.01    | 2.46     | 100.1    |
| 96: R1-01   | 73.9      | 10.00      | 3.03       | 1.28     | 3.80     | 2.48      | 1.17     | 0.31      | 0.07      | 0.08     | 0.04       | < 0.01    | 4.27     | 100.5    |
| 97: R1-02   | 66.3      | 14.2       | 4.49       | 1.98     | 2.15     | 3.27      | 1.89     | 0.53      | 0.11      | 0.10     | 0.04       | 0.02      | 4.62     | 99.7     |



SGS Canada Inc.

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report :

CA10320-AUG10

| Sample ID      | SiO2<br>% | Al2O3<br>% | Fe2O3<br>% | MgO<br>% | CaO<br>% | Na2O<br>% | K2O<br>% | TiO2<br>% | P2O5<br>% | MnO<br>% | Cr2O3<br>% | V2O5<br>% | LOI<br>% | Sum<br>% |
|----------------|-----------|------------|------------|----------|----------|-----------|----------|-----------|-----------|----------|------------|-----------|----------|----------|
| 98: R1-03      | 62.7      | 17.2       | 6.13       | 2.75     | 0.87     | 2.93      | 2.41     | 0.69      | 0.13      | 0.08     | 0.03       | 0.02      | 3.71     | 99.6     |
| 99: T046-05    | 50.3      | 16.1       | 12.5       | 5.21     | 7.98     | 2.90      | 0.28     | 1.38      | 0.11      | 0.27     | 0.05       | 0.06      | 2.82     | 100.0    |
| 100: R11-04    | 71.1      | 15.3       | 1.47       | 0.53     | 1.81     | 5.58      | 2.05     | 0.23      | 0.07      | 0.04     | 0.02       | < 0.01    | 1.54     | 99.8     |
| 101: R11-05    | 67.9      | 16.0       | 4.02       | 1.54     | 2.88     | 5.66      | 0.85     | 0.46      | 0.16      | 0.09     | 0.02       | < 0.01    | 0.76     | 100.4    |
| 102: R17A-01   | 50.1      | 14.2       | 12.0       | 7.76     | 8.25     | 2.46      | 0.26     | 0.80      | 0.07      | 0.20     | 0.04       | 0.05      | 3.44     | 99.6     |
| 103: R19-01    | 50.6      | 13.7       | 13.1       | 6.98     | 10.9     | 2.01      | 0.34     | 1.51      | 0.13      | 0.22     | 0.03       | 0.07      | 0.66     | 100.3    |
| 104: B13-02 A  | 61.0      | 11.6       | 6.16       | 2.24     | 2.39     | 2.71      | 1.55     | 0.57      | 0.14      | 0.09     | 0.05       | 0.02      | 11.0     | 99.5     |
| 105: R19-03    | 50.6      | 13.5       | 13.1       | 7.10     | 10.9     | 1.94      | 0.35     | 1.50      | 0.12      | 0.20     | 0.04       | 0.06      | 1.47     | 100.9    |
| 106: T046-01   | 47.4      | 14.8       | 12.1       | 7.37     | 9.96     | 2.29      | 0.55     | 0.81      | 0.05      | 0.22     | 0.03       | 0.05      | 3.78     | 99.5     |
| 107: T046-02   | 47.0      | 14.6       | 10.5       | 6.06     | 11.8     | 2.74      | 0.19     | 0.80      | 0.07      | 0.21     | 0.05       | 0.05      | 5.84     | 100.0    |
| 108: T046-03   | 45.9      | 15.1       | 12.4       | 7.30     | 12.2     | 2.05      | 0.18     | 0.88      | 0.07      | 0.24     | 0.07       | 0.04      | 3.81     | 100.2    |
| 109: T046-04   | 46.3      | 16.0       | 13.8       | 4.65     | 11.1     | 1.78      | 0.48     | 1.36      | 0.11      | 0.37     | 0.05       | 0.07      | 3.72     | 99.7     |
| 110: Itivia-01 | 49.2      | 11.3       | 11.5       | 10.7     | 11.1     | 1.74      | 0.24     | 0.81      | 0.06      | 0.20     | 0.12       | 0.05      | 3.45     | 100.6    |
| 111: Itivia-02 | 48.4      | 11.7       | 11.7       | 10.7     | 10.6     | 1.72      | 0.27     | 0.84      | 0.06      | 0.19     | 0.13       | 0.05      | 3.69     | 100.1    |
| 112: Itivia-03 | 47.9      | 11.3       | 11.7       | 10.8     | 11.6     | 1.25      | 0.32     | 0.81      | 0.06      | 0.20     | 0.12       | 0.04      | 4.36     | 100.5    |
| 113: Itivia-04 | 49.7      | 10.9       | 11.4       | 10.6     | 11.7     | 1.21      | 0.31     | 0.77      | 0.06      | 0.20     | 0.13       | 0.05      | 3.69     | 100.6    |
| 114: B13-02 B  | 65.5      | 12.6       | 6.41       | 2.46     | 2.90     | 3.04      | 1.50     | 0.60      | 0.12      | 0.11     | 0.05       | 0.01      | 4.64     | 99.9     |

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## Final Report

| Analysis                 | 19:<br>B8-01 | 20:<br>B8-02 | 21:<br>B8-03 | 22:<br>B6A-01 | 23:<br>B6A-02 | 24:<br>B6A-03 | 25:<br>B5-01 | 26:<br>B5-02 | 27:<br>B5-03 | 28:<br>B10-01 | 29:<br>B3-01 | 30:<br>B3-02 | 31:<br>B3-03 | 32:<br>B1A-01 | 33:<br>B1A-02 | 34:<br>B1A-03 | 35:<br>R11-01 |
|--------------------------|--------------|--------------|--------------|---------------|---------------|---------------|--------------|--------------|--------------|---------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|
| Sample Date & Time       |              |              |              |               |               |               |              |              |              |               |              |              |              |               |               |               |               |
| Paste pH [units]         | 7.31         | 7.58         | 7.36         | 8.32          | 7.78          | 8.20          | 7.37         | 8.54         | 8.23         | 7.12          | 8.84         | 9.00         | 9.10         | 7.41          | 6.80          | 7.44          | 9.81          |
| Fizz Rate [---]          | 1            | 1            | 1            | 1             | 1             | 1             | 1            | 1            | 1            | 1             | 1            | 1            | 2            | 1             | 1             | 1             | 2             |
| Sample [weight(g)]       | 1.99         | 2.04         | 1.96         | 1.97          | 2.00          | 1.96          | 2.03         | 1.98         | 1.97         | 1.99          | 1.98         | 1.96         | 2.00         | 2.00          | 2.00          | 2.00          | 2.00          |
| HCl added [mL]           | 20.00        | 20.00        | 20.00        | 20.00         | 20.00         | 20.00         | 20.00        | 20.00        | 20.00        | 20.00         | 20.00        | 20.00        | 26.30        | 20.00         | 20.00         | 20.00         | 20.00         |
| HCl [Normality]          | 0.10         | 0.10         | 0.10         | 0.10          | 0.10          | 0.10          | 0.10         | 0.10         | 0.10         | 0.10          | 0.10         | 0.10         | 0.10         | 0.10          | 0.10          | 0.10          | 0.10          |
| NaOH [Normality]         | 0.10         | 0.10         | 0.10         | 0.10          | 0.10          | 0.10          | 0.10         | 0.10         | 0.10         | 0.10          | 0.10         | 0.10         | 0.10         | 0.10          | 0.10          | 0.10          | 0.10          |
| NaOH to [pH=8.3 mL]      | 17.46        | 17.87        | 17.32        | 17.49         | 17.94         | 17.59         | 17.82        | 17.26        | 16.12        | 17.86         | 16.71        | 13.19        | 15.20        | 17.51         | 17.76         | 17.35         | 15.86         |
| Final pH [units]         | 1.36         | 1.46         | 1.47         | 1.40          | 1.33          | 1.32          | 1.33         | 1.35         | 1.36         | 1.42          | 1.33         | 1.52         | 1.69         | 1.47          | 1.45          | 1.48          | 1.29          |
| NP [t CaCO3/1000t]       | 6.4          | 5.2          | 6.8          | 6.4           | 5.1           | 6.2           | 5.4          | 6.9          | 9.9          | 5.4           | 8.3          | 17.4         | 27.7         | 6.2           | 5.6           | 6.6           | 10.3          |
| AP [t CaCO3/1000 t]      | 0.31         | 0.31         | 0.31         | 0.31          | 0.31          | 0.31          | 0.31         | 0.31         | 0.31         | 0.31          | 0.31         | 0.31         | 0.31         | 0.31          | 0.31          | 0.31          | 0.31          |
| Net NP [t CaCO3/1000 t]  | 6.09         | 4.89         | 6.49         | 6.09          | 4.79          | 5.89          | 5.09         | 6.59         | 9.59         | 5.09          | 7.99         | 17.1         | 27.4         | 5.89          | 5.29          | 6.29          | 9.99          |
| NP/AP [ratio]            | 20.6         | 16.8         | 21.9         | 20.6          | 16.5          | 20.0          | 17.4         | 22.3         | 31.9         | 17.4          | 26.8         | 56.1         | 89.4         | 20.0          | 18.1          | 21.3          | 33.2          |
| Total Sulphur [%]        | 0.017        | 0.014        | 0.019        | 0.013         | < 0.005       | 0.008         | 0.008        | < 0.005      | 0.021        | 0.006         | < 0.005      | 0.007        | 0.010        | 0.028         | 0.010         | 0.012         | 0.008         |
| Acid Leachable SO4-S [%] | 0.02         | 0.01         | 0.02         | 0.01          | < 0.01        | < 0.01        | < 0.01       | < 0.01       | 0.02         | < 0.01        | < 0.01       | < 0.01       | 0.01         | 0.02          | 0.01          | 0.01          | < 0.01        |
| Sulphide-S [%]           | < 0.01       | < 0.01       | < 0.01       | < 0.01        | < 0.01        | < 0.01        | < 0.01       | < 0.01       | < 0.01       | < 0.01        | < 0.01       | < 0.01       | < 0.01       | 0.01          | < 0.01        | < 0.01        | < 0.01        |
| Total Carbon [%]         | 0.535        | 0.656        | 0.554        | 0.148         | 0.225         | 0.134         | 0.519        | 0.134        | 0.585        | 0.778         | 0.153        | 0.232        | 0.463        | 0.720         | 1.96          | 0.569         | 0.120         |
| Carbonate (CO3) [%]      | 0.060        | 0.058        | 0.050        | 0.051         | 0.052         | 0.052         | 0.064        | 0.058        | 0.271        | 0.048         | 0.102        | 0.642        | 1.28         | 0.189         | 0.260         | 0.104         | 0.295         |



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\*NP (Neutralization Potential)

=  $50 \times (N \text{ of HCL} \times \text{Total HCL added} - N \text{ NaOH} \times \text{NaOH added})$

-----

Weight of Sample

\*AP (Acid Potential) = % Sulphide Sulphur  $\times$  31.25

\*Net NP (Net Neutralization Potential) = NP-AP

NP/AP Ratio = NP/AP

\*Results expressed as tonnes CaCO<sub>3</sub> equivalent/1000 tonnes of material

Samples with a % Sulphide value of <0.01 will be calculated using a 0.01 value.

Sulphur analysis performed following BC ARD Guidelines (Price 1997)

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# CERTIFICATE OF ANALYSIS

## Final Report

| Analysis                 | 36:<br>R11-02 | 37:<br>R11-03 | 38:<br>T43-01 | 39:<br>T43-02 | 40:<br>T43-03 | 41:<br>T43-05 | 42:<br>R82-01 | 43:<br>R82-02 | 44:<br>B12-01 | 45:<br>B12-02 | 46:<br>B12-03 | 47:<br>R9-01 | 48:<br>R9-02 | 49:<br>R9-03 | 50:<br>B11A-1 |
|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|--------------|--------------|---------------|
| Sample Date & Time       |               |               |               |               |               |               |               |               |               |               |               |              |              |              |               |
| Paste pH [units]         | 9.78          | 9.65          | 9.39          | 8.95          | 9.23          | 9.28          | 8.57          | 9.16          | 7.76          | 8.82          | 7.97          | 8.73         | 9.03         | 8.92         | 7.69          |
| Fizz Rate [---]          | 2             | 2             | 1             | 1             | 1             | 2             | 1             | 1             | 1             | 1             | 1             | 1            | 1            | 1            | 1             |
| Sample [weight(g)]       | 2.00          | 2.00          | 2.00          | 2.00          | 2.01          | 2.01          | 2.01          | 2.01          | 2.03          | 2.02          | 2.01          | 2.01         | 2.02         | 2.02         | 2.01          |
| HCl added [mL]           | 20.00         | 20.00         | 20.00         | 27.90         | 25.90         | 26.00         | 20.00         | 20.00         | 20.00         | 20.00         | 20.00         | 20.00        | 20.00        | 20.00        | 20.00         |
| HCl [Normality]          | 0.10          | 0.10          | 0.10          | 0.10          | 0.10          | 0.10          | 0.10          | 0.10          | 0.10          | 0.10          | 0.10          | 0.10         | 0.10         | 0.10         | 0.10          |
| NaOH [Normality]         | 0.10          | 0.10          | 0.10          | 0.10          | 0.10          | 0.10          | 0.10          | 0.10          | 0.10          | 0.10          | 0.10          | 0.10         | 0.10         | 0.10         | 0.10          |
| NaOH to [pH=8.3 mL]      | 11.47         | 15.14         | 16.07         | 22.88         | 21.26         | 15.76         | 17.02         | 16.63         | 17.88         | 17.24         | 17.51         | 17.42        | 15.82        | 17.20        | 17.22         |
| Final pH [units]         | 1.58          | 1.41          | 1.88          | 1.58          | 1.62          | 1.93          | 1.29          | 1.44          | 1.47          | 1.48          | 1.53          | 1.30         | 1.64         | 1.29         | 1.52          |
| NP [t CaCO3/1000t]       | 21.3          | 12.2          | 9.8           | 12.5          | 11.6          | 25.5          | 7.4           | 8.4           | 5.2           | 6.8           | 6.2           | 6.4          | 10.3         | 6.9          | 6.9           |
| AP [t CaCO3/1000 t]      | 0.31          | 0.31          | 0.31          | 2.50          | 0.31          | 0.31          | 0.31          | 0.31          | 0.31          | 0.31          | 0.31          | 0.31         | 0.31         | 0.31         | 0.31          |
| Net NP [t CaCO3/1000 t]  | 21.0          | 11.9          | 9.49          | 10.0          | 11.3          | 25.2          | 7.09          | 8.09          | 4.89          | 6.49          | 5.89          | 6.09         | 9.99         | 6.59         | 6.59          |
| NP/AP [ratio]            | 68.7          | 39.4          | 31.6          | 5.00          | 37.4          | 82.3          | 23.9          | 27.1          | 16.8          | 21.9          | 20.0          | 20.6         | 33.2         | 22.3         | 22.3          |
| Total Sulphur [%]        | 0.005         | < 0.005       | 0.024         | 0.148         | 0.035         | 0.006         | 0.035         | 0.015         | 0.009         | 0.008         | 0.006         | 0.042        | 0.036        | 0.020        | 0.017         |
| Acid Leachable SO4-S [%] | < 0.01        | < 0.01        | 0.02          | 0.07          | 0.04          | < 0.01        | 0.04          | 0.02          | < 0.01        | < 0.01        | < 0.01        | 0.04         | 0.04         | 0.02         | 0.02          |
| Sulphide-S [%]           | < 0.01        | < 0.01        | < 0.01        | 0.08          | < 0.01        | < 0.01        | < 0.01        | < 0.01        | < 0.01        | < 0.01        | < 0.01        | < 0.01       | < 0.01       | < 0.01       | < 0.01        |
| Total Carbon [%]         | 0.251         | 0.156         | 0.039         | 0.072         | 0.028         | 0.271         | 0.068         | 0.087         | 0.454         | 0.080         | 0.268         | 0.066        | 0.084        | 0.037        | 0.446         |
| Carbonate (CO3) [%]      | 0.934         | 0.350         | 0.030         | 0.074         | 0.026         | 0.985         | 0.007         | 0.010         | 0.061         | 0.041         | 0.053         | 0.027        | 0.067        | < 0.005      | 0.045         |



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\*NP (Neutralization Potential)

=  $50 \times (N \text{ of HCL} \times \text{Total HCL added} - N \text{ NaOH} \times \text{NaOH added})$

-----

Weight of Sample

\*AP (Acid Potential) = % Sulphide Sulphur  $\times$  31.25

\*Net NP (Net Neutralization Potential) = NP-AP

NP/AP Ratio = NP/AP

\*Results expressed as tonnes CaCO<sub>3</sub> equivalent/1000 tonnes of material

Samples with a % Sulphide value of <0.01 will be calculated using a 0.01 value.

Sulphur analysis performed following BC ARD Guidelines (Price 1997)

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# CERTIFICATE OF ANALYSIS

## Final Report

| Analysis                              | 51:<br>B11A-2 | 52:<br>B11A-3 | 53:<br>R7-01 | 54:<br>R7-02 | 55:<br>R7-03 | 56:<br>R7-04 | 57:<br>R7-05 | 58:<br>B10-02 | 59:<br>R5-01 | 60:<br>R5-02 | 61:<br>R5-03 | 62:<br>R280-03 | 63:<br>B10-03 | 64:<br>R16-01 | 65:<br>R16-02 | 66:<br>R16-03 |
|---------------------------------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|---------------|--------------|--------------|--------------|----------------|---------------|---------------|---------------|---------------|
| Sample Date & Time                    |               |               |              |              |              |              |              |               |              |              |              |                |               |               |               |               |
| Paste pH [units]                      | 7.56          | 6.90          | 9.44         | 8.84         | 9.39         | 9.60         | 9.18         | 7.82          | 9.29         | 9.91         | 9.66         | 9.74           | 7.83          | 9.06          | 9.18          | 9.08          |
| Fizz Rate [---]                       | 1             | 1             | 1            | 1            | 1            | 1            | 1            | 1             | 1            | 1            | 1            | 1              | 1             | 3             | 1             | 2             |
| Sample [weight(g)]                    | 2.01          | 2.00          | 2.02         | 2.00         | 2.02         | 2.02         | 2.04         | 2.04          | 2.00         | 1.98         | 2.01         | 1.97           | 1.99          | 2.02          | 2.00          | 1.96          |
| HCl added [mL]                        | 20.00         | 20.00         | 20.00        | 20.00        | 20.00        | 20.00        | 20.00        | 20.00         | 20.00        | 20.00        | 20.00        | 20.00          | 20.00         | 37.50         | 26.70         | 34.80         |
| HCl [Normality]                       | 0.10          | 0.10          | 0.10         | 0.10         | 0.10         | 0.10         | 0.10         | 0.10          | 0.10         | 0.10         | 0.10         | 0.10           | 0.10          | 0.10          | 0.10          | 0.10          |
| NaOH [Normality]                      | 0.10          | 0.10          | 0.10         | 0.10         | 0.10         | 0.10         | 0.10         | 0.10          | 0.10         | 0.10         | 0.10         | 0.10           | 0.10          | 0.10          | 0.10          | 0.10          |
| NaOH to [pH=8.3 mL]                   | 17.57         | 17.78         | 16.79        | 15.72        | 16.24        | 16.77        | 16.21        | 17.05         | 17.39        | 16.65        | 17.04        | 16.54          | 17.02         | 23.19         | 19.12         | 23.53         |
| Final pH [units]                      | 1.46          | 1.53          | 1.21         | 1.91         | 1.53         | 1.27         | 1.43         | 1.44          | 1.17         | 1.24         | 1.19         | 1.26           | 1.44          | 1.64          | 1.63          | 1.58          |
| NP [t CaCO <sub>3</sub> /1000t]       | 6.1           | 5.5           | 7.9          | 10.7         | 9.3          | 8.0          | 9.3          | 7.2           | 6.5          | 8.5          | 7.4          | 8.8            | 7.5           | 35.4          | 19.0          | 28.7          |
| AP [t CaCO <sub>3</sub> /1000 t]      | 0.31          | 0.31          | 0.31         | 0.94         | 0.31         | 0.31         | 0.31         | 0.31          | 0.31         | 0.31         | 0.31         | 0.31           | 0.31          | 0.94          | 0.62          | 0.94          |
| Net NP [t CaCO <sub>3</sub> /1000 t]  | 5.79          | 5.19          | 7.59         | 9.76         | 8.99         | 7.69         | 8.99         | 6.89          | 6.19         | 8.19         | 7.09         | 8.49           | 7.19          | 34.5          | 18.4          | 27.8          |
| NP/AP [ratio]                         | 19.7          | 17.7          | 25.5         | 11.4         | 30.0         | 25.8         | 30.0         | 23.2          | 21.0         | 27.4         | 23.9         | 28.4           | 24.2          | 37.7          | 30.6          | 30.5          |
| Total Sulphur [%]                     | 0.018         | 0.013         | 0.011        | 0.094        | 0.024        | 0.006        | 0.041        | 0.013         | < 0.005      | < 0.005      | < 0.005      | < 0.005        | 0.020         | 0.092         | 0.046         | 0.099         |
| Acid Leachable SO <sub>4</sub> -S [%] | 0.02          | 0.01          | 0.01         | 0.06         | 0.02         | < 0.01       | 0.03         | 0.01          | < 0.01       | < 0.01       | < 0.01       | < 0.01         | 0.02          | 0.06          | 0.03          | 0.07          |
| Sulphide-S [%]                        | < 0.01        | < 0.01        | < 0.01       | 0.03         | < 0.01       | < 0.01       | 0.01         | < 0.01        | < 0.01       | < 0.01       | < 0.01       | < 0.01         | < 0.01        | 0.03          | 0.02          | 0.03          |
| Total Carbon [%]                      | 0.434         | 0.823         | 0.032        | 0.053        | 0.033        | 0.029        | 0.033        | 0.445         | 0.101        | 0.110        | 0.139        | 0.118          | 0.376         | 0.325         | 0.147         | 0.298         |
| Carbonate (CO <sub>3</sub> ) [%]      | 0.050         | 0.079         | 0.016        | 0.060        | 0.019        | 0.060        | 0.063        | 0.050         | 0.052        | 0.172        | 0.094        | 0.159          | 0.036         | 1.27          | 0.309         | 0.918         |



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\*NP (Neutralization Potential)

=  $50 \times (N \text{ of HCL} \times \text{Total HCL added} - N \text{ NaOH} \times \text{NaOH added})$

-----

Weight of Sample

\*AP (Acid Potential) = % Sulphide Sulphur  $\times$  31.25

\*Net NP (Net Neutralization Potential) = NP-AP

NP/AP Ratio = NP/AP

\*Results expressed as tonnes CaCO<sub>3</sub> equivalent/1000 tonnes of material

Samples with a % Sulphide value of <0.01 will be calculated using a 0.01 value.

Sulphur analysis performed following BC ARD Guidelines (Price 1997)

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# CERTIFICATE OF ANALYSIS

## Final Report

| Analysis                 | 67:<br>R16-04 | 68:<br>R16-05 | 69:<br>R16-06 | 70:<br>R16-07 | 71:<br>R16-08 | 72:<br>R16-09 | 73:<br>B18-01 | 74:<br>B18-02 | 75:<br>B18-03 | 76:<br>R17-01 | 77:<br>R17-02 | 78:<br>R17-03 | 79:<br>B15-01 | 80:<br>B15-02 | 81:<br>B15-03 | 82:<br>B19-03 | 83:<br>R14-01 |
|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Sample Date & Time       |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |
| Paste pH [units]         | 9.14          | 9.13          | 9.34          | 9.44          | 9.40          | 9.24          | 8.87          | 7.92          | 7.94          | 8.02          | 9.12          | 9.18          | 7.73          | 8.09          | 8.47          | 7.75          | 8.14          |
| Fizz Rate [---]          | 1             | 1             | 2             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 3             | 3             | 1             | 1             | 1             | 1             | 1             |
| Sample [weight(g)]       | 2.00          | 1.97          | 1.99          | 2.04          | 2.01          | 2.02          | 2.05          | 2.00          | 2.00          | 1.96          | 1.99          | 1.95          | 2.05          | 2.02          | 1.96          | 2.04          | 2.03          |
| HCl added [mL]           | 20.00         | 20.00         | 39.80         | 20.00         | 35.80         | 26.40         | 20.00         | 20.00         | 20.00         | 20.00         | 93.80         | 29.60         | 20.00         | 20.00         | 20.00         | 20.00         | 20.00         |
| HCl [Normality]          | 0.10          | 0.10          | 0.10          | 0.10          | 0.10          | 0.10          | 0.10          | 0.10          | 0.10          | 0.10          | 0.10          | 0.10          | 0.10          | 0.10          | 0.10          | 0.10          | 0.10          |
| NaOH [Normality]         | 0.10          | 0.10          | 0.10          | 0.10          | 0.10          | 0.10          | 0.10          | 0.10          | 0.10          | 0.10          | 0.10          | 0.10          | 0.10          | 0.10          | 0.10          | 0.10          | 0.10          |
| NaOH to [pH=8.3 mL]      | 14.18         | 15.73         | 21.67         | 15.63         | 29.32         | 20.00         | 16.63         | 15.80         | 15.80         | 16.40         | 41.50         | 13.10         | 16.20         | 17.00         | 17.04         | 17.93         | 15.10         |
| Final pH [units]         | 1.82          | 1.78          | 1.68          | 1.49          | 1.55          | 1.68          | 1.58          | 1.67          | 1.53          | 1.57          | 1.63          | 1.95          | 1.44          | 1.25          | 1.35          | 1.34          | 1.97          |
| NP [t CaCO3/1000t]       | 14.6          | 10.8          | 45.5          | 10.7          | 16.1          | 15.8          | 8.2           | 10.5          | 10.5          | 9.2           | 131           | 42.3          | 9.3           | 7.4           | 7.6           | 5.1           | 12.1          |
| AP [t CaCO3/1000 t]      | 0.62          | 0.31          | 0.31          | 0.31          | 0.94          | 0.31          | 0.31          | 0.31          | 0.31          | 0.62          | 0.62          | 0.31          | 0.31          | 0.31          | 0.31          | 0.31          | 2.50          |
| Net NP [t CaCO3/1000 t]  | 14.0          | 10.5          | 45.2          | 10.4          | 15.2          | 15.5          | 7.89          | 10.2          | 10.2          | 8.58          | 131           | 42.0          | 8.99          | 7.09          | 7.29          | 4.79          | 9.60          |
| NP/AP [ratio]            | 23.5          | 34.8          | 147           | 34.5          | 17.1          | 51.0          | 26.5          | 33.9          | 33.9          | 14.8          | 212           | 136           | 30.0          | 23.9          | 24.5          | 16.5          | 4.84          |
| Total Sulphur [%]        | 0.095         | 0.013         | 0.056         | 0.032         | 0.096         | 0.026         | 0.015         | 0.035         | 0.023         | 0.110         | 0.027         | 0.051         | 0.018         | 0.009         | 0.029         | 0.011         | 0.179         |
| Acid Leachable SO4-S [%] | 0.07          | 0.01          | 0.06          | 0.03          | 0.06          | 0.03          | 0.02          | 0.04          | 0.02          | 0.09          | < 0.01        | 0.05          | 0.02          | < 0.01        | 0.03          | 0.01          | 0.10          |
| Sulphide-S [%]           | 0.02          | < 0.01        | < 0.01        | < 0.01        | 0.03          | < 0.01        | < 0.01        | < 0.01        | < 0.01        | 0.02          | 0.02          | < 0.01        | < 0.01        | < 0.01        | < 0.01        | < 0.01        | 0.08          |
| Total Carbon [%]         | 0.172         | 0.074         | 0.408         | 0.043         | 0.062         | 0.108         | 0.092         | 0.464         | 0.353         | 0.101         | 1.39          | 0.381         | 0.409         | 0.136         | 0.211         | 0.370         | 0.154         |
| Carbonate (CO3) [%]      | 0.240         | 0.136         | 1.75          | 0.123         | 0.083         | 0.014         | 0.101         | 0.133         | 0.173         | 0.150         | 6.65          | 1.64          | 0.076         | 0.043         | 0.061         | 0.050         | 0.067         |



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Modified ABA (Price 1997)

LR Report :

CA10321-AUG10

\*NP (Neutralization Potential)

=  $50 \times (N \text{ of HCL} \times \text{Total HCL added} - N \text{ NaOH} \times \text{NaOH added})$

-----  
Weight of Sample

\*AP (Acid Potential) = % Sulphide Sulphur  $\times$  31.25

\*Net NP (Net Neutralization Potential) = NP-AP

NP/AP Ratio = NP/AP

\*Results expressed as tonnes CaCO<sub>3</sub> equivalent/1000 tonnes of material

Samples with a % Sulphide value of <0.01 will be calculated using a 0.01 value.

Sulphur analysis performed following BC ARD Guidelines (Price 1997)

Brian Graham B.Sc.

Project Specialist

Environmental Services, Analytical



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Modified ABA (Price 1997)

Wednesday, September 15, 2010

Date Rec. : 19 August 2010

LR Report: CA10321-AUG10

Reference: Meliadine (Golder 10-1127-0101)

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# CERTIFICATE OF ANALYSIS

## Final Report

| Analysis                 | 84:<br>R14-02 | 85:<br>R14-03 | 86:<br>R14-04 | 87:<br>R14-05 | 88:<br>T041-01 | 89:<br>T041-02 | 90:<br>T041-03 | 91:<br>T041-04 | 92:<br>T041-05 | 93:<br>R19-02 | 94:<br>B19-01 | 95:<br>B19-02 | 96:<br>R1-01 | 97:<br>R1-02 | 98:<br>R1-03 | 99:<br>T046-05 |
|--------------------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|---------------|---------------|---------------|--------------|--------------|--------------|----------------|
| Sample Date & Time       |               |               |               |               |                |                |                |                |                |               |               |               |              |              |              |                |
| Paste pH [units]         | 9.41          | 7.44          | 9.59          | 9.68          | 9.48           | 9.59           | 9.30           | 8.87           | 8.79           | 8.79          | 8.19          | 7.24          | 9.49         | 9.47         | 9.43         | 9.21           |
| Fizz Rate [---]          | 1             | 1             | 2             | 1             | 1              | 1              | 1              | 1              | 1              | 3             | 1             | 1             | 3            | 3            | 1            | 3              |
| Sample [weight(g)]       | 1.95          | 2.02          | 2.04          | 2.00          | 2.02           | 2.02           | 1.99           | 1.99           | 1.99           | 1.97          | 2.00          | 1.97          | 1.99         | 1.99         | 2.02         | 2.03           |
| HCl added [mL]           | 20.00         | 20.00         | 26.30         | 20.00         | 36.60          | 20.00          | 20.00          | 20.00          | 20.00          | 50.70         | 20.00         | 20.00         | 37.90        | 41.40        | 20.00        | 26.90          |
| HCl [Normality]          | 0.10          | 0.10          | 0.10          | 0.10          | 0.10           | 0.10           | 0.10           | 0.10           | 0.10           | 0.10          | 0.10          | 0.10          | 0.10         | 0.10         | 0.10         | 0.10           |
| NaOH [Normality]         | 0.10          | 0.10          | 0.10          | 0.10          | 0.10           | 0.10           | 0.10           | 0.10           | 0.10           | 0.10          | 0.10          | 0.10          | 0.10         | 0.10         | 0.10         | 0.10           |
| NaOH to [pH=8.3 mL]      | 15.57         | 18.28         | 17.48         | 15.84         | 30.40          | 15.70          | 16.00          | 17.38          | 15.11          | 21.42         | 17.35         | 17.76         | 12.35        | 21.07        | 12.56        | 14.12          |
| Final pH [units]         | 1.54          | 1.23          | 1.60          | 1.47          | 1.67           | 1.65           | 1.68           | 1.30           | 1.31           | 1.76          | 1.40          | 1.34          | 1.94         | 1.69         | 1.85         | 1.90           |
| NP [t CaCO3/1000t]       | 11.4          | 4.3           | 21.6          | 10.4          | 15.3           | 10.6           | 10.0           | 6.6            | 12.3           | 74.3          | 6.6           | 5.7           | 64.2         | 51.1         | 18.4         | 31.5           |
| AP [t CaCO3/1000 t]      | 0.31          | 5.31          | 0.31          | 0.31          | 0.31           | 0.31           | 0.31           | 0.31           | 1.25           | 0.31          | 0.31          | 0.31          | 0.62         | 1.25         | 0.31         | 0.31           |
| Net NP [t CaCO3/1000 t]  | 11.1          | -1.01         | 21.3          | 10.1          | 15.0           | 10.3           | 9.69           | 6.29           | 11.0           | 74.0          | 6.29          | 5.39          | 63.6         | 49.8         | 18.1         | 31.2           |
| NP/AP [ratio]            | 36.8          | 0.81          | 69.7          | 33.5          | 49.4           | 34.2           | 32.3           | 21.3           | 9.84           | 240           | 21.3          | 18.4          | 104          | 40.9         | 59.4         | 102            |
| Total Sulphur [%]        | 0.025         | 0.343         | 0.054         | < 0.005       | 0.016          | 0.020          | 0.026          | 0.015          | 0.156          | < 0.005       | 0.025         | 0.009         | 0.067        | 0.115        | 0.080        | 0.010          |
| Acid Leachable SO4-S [%] | 0.02          | 0.17          | 0.05          | < 0.01        | 0.02           | 0.02           | 0.03           | 0.02           | 0.11           | < 0.01        | 0.03          | < 0.01        | 0.05         | 0.07         | 0.07         | 0.01           |
| Sulphide-S [%]           | < 0.01        | 0.17          | < 0.01        | < 0.01        | < 0.01         | < 0.01         | < 0.01         | < 0.01         | 0.04           | < 0.01        | < 0.01        | < 0.01        | 0.02         | 0.04         | 0.01         | < 0.01         |
| Total Carbon [%]         | 0.093         | 0.101         | 0.162         | 0.051         | 0.084          | 0.054          | 0.065          | 0.113          | 0.138          | 0.821         | 0.296         | 0.746         | 0.818        | 0.852        | 0.307        | 0.328          |
| Carbonate (CO3) [%]      | 0.085         | 0.033         | 0.587         | 0.076         | 0.136          | 0.046          | 0.015          | 0.008          | 0.227          | 3.60          | 0.062         | 0.040         | 3.46         | 2.62         | 1.02         | 1.37           |



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\*NP (Neutralization Potential)

=  $50 \times (N \text{ of HCL} \times \text{Total HCL added} - N \text{ NaOH} \times \text{NaOH added})$

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Weight of Sample

\*AP (Acid Potential) = % Sulphide Sulphur  $\times$  31.25

\*Net NP (Net Neutralization Potential) = NP-AP

NP/AP Ratio = NP/AP

\*Results expressed as tonnes CaCO<sub>3</sub> equivalent/1000 tonnes of material

Samples with a % Sulphide value of <0.01 will be calculated using a 0.01 value.

Sulphur analysis performed following BC ARD Guidelines (Price 1997)

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## Final Report

| Analysis                 | 100:<br>R11-04 | 101:<br>R11-05 | 102:<br>R17A-01 | 103:<br>R19-01 | 104:<br>B13-02 A | 105:<br>R19-03 | 106:<br>T046-01 | 107:<br>T046-02 | 108:<br>T046-03 | 109:<br>T046-04 | 110:<br>Itivia-01 | 111:<br>Itivia-02 | 112:<br>Itivia-03 | 113:<br>Itivia-04 | 114:<br>B13-02 B |
|--------------------------|----------------|----------------|-----------------|----------------|------------------|----------------|-----------------|-----------------|-----------------|-----------------|-------------------|-------------------|-------------------|-------------------|------------------|
| Sample Date & Time       |                |                |                 |                |                  |                |                 |                 |                 |                 |                   |                   |                   |                   |                  |
| Paste pH [units]         | 9.69           | 9.94           | 9.12            | 9.18           | 5.83             | 9.04           | 8.94            | 9.02            | 9.14            | 9.01            | 9.18              | 8.63              | 9.07              | 9.11              | 6.45             |
| Fizz Rate [---]          | 2              | 1              | 2               | 1              | 1                | 1              | 2               | 3               | 3               | 3               | 2                 | 2                 | 2                 | 2                 | 1                |
| Sample [weight(g)]       | 2.03           | 1.97           | 2.00            | 1.99           | 1.97             | 2.01           | 1.97            | 2.03            | 2.00            | 1.99            | 2.04              | 2.02              | 1.99              | 2.04              | 2.05             |
| HCl added [mL]           | 20.00          | 20.00          | 26.30           | 26.80          | 20.00            | 37.70          | 30.20           | 58.70           | 40.50           | 40.30           | 27.90             | 26.40             | 29.20             | 26.20             | 20.00            |
| HCl [Normality]          | 0.10           | 0.10           | 0.10            | 0.10           | 0.10             | 0.10           | 0.10            | 0.10            | 0.10            | 0.10            | 0.10              | 0.10              | 0.10              | 0.10              | 0.10             |
| NaOH [Normality]         | 0.10           | 0.10           | 0.10            | 0.10           | 0.10             | 0.10           | 0.10            | 0.10            | 0.10            | 0.10            | 0.10              | 0.10              | 0.10              | 0.10              | 0.10             |
| NaOH to [pH=8.3 mL]      | 13.50          | 16.48          | 15.35           | 20.62          | 18.22            | 28.81          | 13.71           | 19.69           | 18.41           | 19.93           | 15.90             | 16.38             | 13.50             | 13.40             | 17.86            |
| Final pH [units]         | 1.42           | 1.35           | 1.89            | 1.70           | 1.37             | 1.58           | 1.79            | 1.77            | 1.59            | 1.70            | 1.66              | 1.55              | 1.88              | 1.85              | 1.56             |
| NP [t CaCO3/1000t]       | 16.0           | 8.9            | 27.4            | 15.5           | 4.5              | 22.1           | 41.9            | 96.1            | 55.2            | 51.2            | 29.4              | 24.8              | 39.5              | 31.4              | 5.2              |
| AP [t CaCO3/1000 t]      | 0.62           | 0.31           | 0.31            | 0.31           | 0.62             | 0.31           | 0.31            | 0.31            | 0.31            | 0.62            | 0.62              | 0.62              | 0.62              | 0.31              | 0.62             |
| Net NP [t CaCO3/1000 t]  | 15.4           | 8.59           | 27.1            | 15.2           | 3.88             | 21.8           | 41.6            | 95.8            | 54.9            | 50.6            | 28.8              | 24.2              | 38.9              | 31.1              | 4.58             |
| NP/AP [ratio]            | 25.8           | 28.7           | 88.4            | 50.0           | 7.26             | 71.3           | 135             | 310             | 178             | 82.6            | 47.4              | 40.0              | 63.7              | 101.3             | 8.4              |
| Total Sulphur [%]        | 0.090          | < 0.005        | 0.044           | 0.012          | 0.092            | 0.018          | 0.016           | 0.016           | 0.018           | 0.061           | 0.082             | 0.072             | 0.063             | 0.065             | 0.051            |
| Acid Leachable SO4-S [%] | 0.07           | <0.01          | 0.04            | 0.01           | 0.07             | 0.02           | 0.02            | <0.01           | <0.01           | 0.04            | 0.07              | 0.05              | 0.04              | 0.05              | 0.03             |
| Sulphide-S [%]           | 0.02           | < 0.01         | < 0.01          | < 0.01         | 0.02             | < 0.01         | < 0.01          | < 0.01          | < 0.01          | 0.02            | 0.02              | 0.02              | 0.02              | 0.01              | 0.02             |
| Total Carbon [%]         | 0.236          | 0.065          | 0.292           | 0.062          | 4.37             | 0.150          | 0.526           | 1.15            | 0.651           | 0.611           | 0.263             | 0.240             | 0.413             | 0.296             | 1.57             |
| Carbonate (CO3) [%]      | 0.595          | 0.050          | 0.939           | 0.065          | 0.103            | 0.330          | 1.94            | 5.38            | 2.96            | 2.49            | 1.07              | 0.718             | 1.80              | 1.28              | 0.075            |



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=  $50 \times (N \text{ of HCL} \times \text{Total HCL added} - N \text{ NaOH} \times \text{NaOH added})$

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Weight of Sample

\*AP (Acid Potential) = % Sulphide Sulphur  $\times$  31.25

\*Net NP (Net Neutralization Potential) = NP-AP

NP/AP Ratio = NP/AP

\*Results expressed as tonnes CaCO<sub>3</sub> equivalent/1000 tonnes of material

Samples with a % Sulphide value of <0.01 will be calculated using a 0.01 value.

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# CERTIFICATE OF ANALYSIS

## Final Report

| Analysis                 | 3:<br>Analysis<br>Approval<br>Date | 4:<br>Analysis<br>Approval<br>Time | 5:<br>R350-01 | 6:<br>R350-02 | 7:<br>R350-03 | 8:<br>R350-04 | 9:<br>R359-01 | 10:<br>T43-04 | 11:<br>R359-02 | 12:<br>R359-03 | 13:<br>R2-01 | 14:<br>R2-02 | 15:<br>R2-03 | 16:<br>R82-03 | 17:<br>R280-01 | 18:<br>R280-02 |
|--------------------------|------------------------------------|------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|--------------|--------------|--------------|---------------|----------------|----------------|
| Sample Date & Time       |                                    |                                    |               |               |               |               |               |               |                |                |              |              |              |               |                |                |
| Paste pH [units]         | 13-Sep-10                          | 09:34                              | 9.45          | 9.75          | 8.52          | 9.50          | 9.57          | 9.04          | 9.28           | 9.55           | 9.40         | 8.90         | 9.53         | 9.35          | 9.83           | 9.65           |
| Fizz Rate [---]          | 13-Sep-10                          | 09:34                              | 1             | 1             | 1             | 1             | 1             | 1             | 1              | 1              | 2            | 1            | 2            | 1             | 1              | 1              |
| Sample [weight(g)]       | 13-Sep-10                          | 09:34                              | 1.96          | 1.97          | 2.05          | 1.97          | 1.96          | 2.00          | 2.00           | 1.95           | 2.00         | 2.02         | 2.01         | 1.98          | 2.02           | 1.96           |
| HCl added [mL]           | 13-Sep-10                          | 09:34                              | 20.00         | 20.00         | 20.00         | 20.00         | 20.00         | 20.00         | 20.00          | 20.00          | 32.70        | 20.00        | 20.00        | 20.00         | 20.00          | 20.00          |
| HCl [Normality]          | 13-Sep-10                          | 09:34                              | 0.10          | 0.10          | 0.10          | 0.10          | 0.10          | 0.10          | 0.10           | 0.10           | 0.10         | 0.10         | 0.10         | 0.10          | 0.10           | 0.10           |
| NaOH [Normality]         | 13-Sep-10                          | 09:34                              | 0.10          | 0.10          | 0.10          | 0.10          | 0.10          | 0.10          | 0.10           | 0.10           | 0.10         | 0.10         | 0.10         | 0.10          | 0.10           | 0.10           |
| NaOH to [pH=8.3 mL]      | 13-Sep-10                          | 09:34                              | 15.18         | 15.30         | 16.00         | 15.50         | 15.55         | 13.50         | 13.93          | 16.48          | 20.38        | 15.66        | 12.91        | 16.82         | 16.47          | 17.33          |
| Final pH [units]         | 13-Sep-10                          | 09:34                              | 1.71          | 1.50          | 1.50          | 1.56          | 1.53          | 1.56          | 1.57           | 1.37           | 1.60         | 1.40         | 1.75         | 1.36          | 1.25           | 1.22           |
| NP [t CaCO3/1000t]       | 13-Sep-10                          | 09:34                              | 12.3          | 11.9          | 9.7           | 11.4          | 11.4          | 16.2          | 15.2           | 9.0            | 30.8         | 10.7         | 17.6         | 8.0           | 8.7            | 6.8            |
| AP [t CaCO3/1000 t]      | 14-Sep-10                          | 10:10                              | 0.31          | 0.31          | 1.56          | 0.31          | 0.31          | 1.87          | 1.56           | 0.31           | 0.62         | 0.94         | 1.87         | 0.31          | 0.31           | 0.31           |
| Net NP [t CaCO3/1000 t]  | 14-Sep-10                          | 10:10                              | 12.0          | 11.6          | 8.14          | 11.1          | 11.1          | 14.3          | 13.6           | 8.69           | 30.2         | 9.76         | 15.7         | 7.69          | 8.39           | 6.49           |
| NP/AP [ratio]            | 14-Sep-10                          | 10:10                              | 39.7          | 38.4          | 6.22          | 36.8          | 36.8          | 8.66          | 9.7            | 29.0           | 49.7         | 11.4         | 9.41         | 25.8          | 28.1           | 21.9           |
| Total Sulphur [%]        | 14-Sep-10                          | 10:09                              | 0.007         | < 0.005       | 0.099         | 0.008         | 0.007         | 0.091         | 0.085          | 0.013          | 0.071        | 0.128        | 0.094        | 0.025         | 0.008          | 0.007          |
| Acid Leachable SO4-S [%] | 14-Sep-10                          | 10:09                              | < 0.01        | < 0.01        | 0.05          | < 0.01        | < 0.01        | 0.03          | 0.04           | 0.01           | 0.05         | 0.10         | 0.03         | 0.03          | < 0.01         | < 0.01         |
| Sulphide-S [%]           | 14-Sep-10                          | 10:08                              | < 0.01        | < 0.01        | 0.05          | < 0.01        | < 0.01        | 0.06          | 0.05           | < 0.01         | 0.02         | 0.03         | 0.06         | < 0.01        | < 0.01         | < 0.01         |
| Total Carbon [%]         | 14-Sep-10                          | 10:09                              | 0.049         | 0.039         | 0.022         | 0.075         | 0.053         | 0.166         | 0.141          | 0.025          | 0.251        | 0.042        | 0.127        | 0.031         | 0.112          | 0.115          |
| Carbonate (CO3) [%]      | 09-Sep-10                          | 13:35                              | 0.006         | 0.018         | 0.098         | < 0.005       | 0.113         | 0.300         | 0.374          | 0.007          | 1.01         | 0.082        | 0.466        | 0.007         | 0.214          | 0.088          |

Online LIMS



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Modified ABA (Price 1997)

LR Report :

CA10321-AUG10

\*NP (Neutralization Potential)

=  $50 \times (N \text{ of HCL} \times \text{Total HCL added} - N \text{ NaOH} \times \text{NaOH added})$

-----

Weight of Sample

\*AP (Acid Potential) = % Sulphide Sulphur  $\times$  31.25

\*Net NP (Net Neutralization Potential) = NP-AP

NP/AP Ratio = NP/AP

\*Results expressed as tonnes CaCO<sub>3</sub> equivalent/1000 tonnes of material

Samples with a % Sulphide value of <0.01 will be calculated using a 0.01 value.

Sulphur analysis performed following BC ARD Guidelines (Price 1997)

Brian Graham B.Sc.

Project Specialist

Environmental Services, Analytical



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## Agnico-Eagle Mines Limited

Attn : Larry Connell

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Phone: 416-947-1212

Fax: 416-367-4681

Shake Flask Leach (4:1 ratio)

Monday, September 20, 2010

Date Rec. : 19 August 2010

LR Report: CA10322-AUG10

Reference: Meliadine (Golder 10-1127-0101)

Copy: #1

# CERTIFICATE OF ANALYSIS

## Final Report

| Analysis                          | 16:<br>R82-03 | 17:<br>R280-01 | 18:<br>R280-02 | 19:<br>B8-01 | 20:<br>B8-02 | 21:<br>B8-03 | 22:<br>B6A-01 | 23:<br>B6A-02 | 24:<br>B6A-03 | 25:<br>B5-01 | 26:<br>B5-02 | 27:<br>B5-03 | 28:<br>B10-01 | 29:<br>B3-01 |
|-----------------------------------|---------------|----------------|----------------|--------------|--------------|--------------|---------------|---------------|---------------|--------------|--------------|--------------|---------------|--------------|
| Sample Date & Time                |               |                |                |              |              |              |               |               |               |              |              |              |               |              |
| Sample [weight(g)]                | 200           | 200            | 200            | 200          | 200          | 200          | 200           | 200           | 200           | 200          | 200          | 200          | 200           | 200          |
| Volume mL [D.I. H <sub>2</sub> O] | 800           | 800            | 800            | 800          | 800          | 800          | 800           | 800           | 800           | 800          | 800          | 800          | 800           | 800          |
| Initial pH [units]                | 7.65          | 9.43           | 8.58           | 5.92         | 6.36         | 5.97         | 6.37          | 5.92          | 6.14          | 5.77         | 6.90         | 7.12         | 5.80          | 7.74         |
| Final pH [units]                  | 9.50          | 9.17           | 8.76           | 6.58         | 6.46         | 6.90         | 6.88          | 6.32          | 7.19          | 6.33         | 7.23         | 7.40         | 7.24          | 8.24         |
| Silver [mg/L]                     | 0.00005       | 0.00003        | 0.00002        | 0.00003      | 0.00004      | 0.00004      | 0.00002       | 0.00014       | 0.00007       | 0.00006      | 0.00005      | 0.00005      | 0.00004       | 0.00002      |
| Aluminum [mg/L]                   | 1.23          | 1.15           | 0.75           | 0.34         | 0.29         | 0.42         | 0.12          | 0.14          | 0.08          | 0.33         | 0.18         | 0.10         | 0.31          | 0.11         |
| Arsenic [mg/L]                    | 0.0006        | 0.0002         | 0.0006         | 0.0011       | 0.0315       | 0.0031       | 0.0011        | 0.0008        | 0.0009        | 0.0036       | 0.0070       | 0.0060       | 0.0012        | 0.0165       |
| Boron [mg/L]                      | 0.0022        | 0.0023         | 0.0019         | 0.0039       | 0.0054       | 0.0034       | 0.0022        | 0.0020        | 0.0026        | 0.0037       | 0.0029       | 0.0105       | 0.0031        | 0.0029       |
| Beryllium [mg/L]                  | < 0.00002     | < 0.00002      | < 0.00002      | < 0.00002    | < 0.00002    | < 0.00002    | < 0.00002     | < 0.00002     | < 0.00002     | 0.00002      | < 0.00002    | < 0.00002    | < 0.00002     | < 0.00002    |
| Bismuth [mg/L]                    | < 0.00001     | < 0.00001      | < 0.00001      | < 0.00001    | < 0.00001    | < 0.00001    | < 0.00001     | 0.00012       | 0.00004       | 0.00006      | 0.00004      | 0.00001      | 0.00001       | < 0.00001    |
| Calcium [mg/L]                    | 1.95          | 4.76           | 6.15           | 0.15         | 2.19         | 0.58         | 0.46          | 0.10          | 0.05          | 0.23         | 2.46         | 15.8         | 0.05          | 12.8         |
| Cadmium [mg/L]                    | 0.000005      | 0.000007       | 0.000008       | 0.000006     | 0.000010     | 0.000013     | < 0.000003    | 0.000109      | 0.000036      | 0.000026     | 0.000031     | 0.000013     | 0.000005      | 0.000009     |
| Cobalt [mg/L]                     | 0.000327      | 0.000123       | 0.000136       | 0.000869     | 0.00120      | 0.00192      | 0.000452      | 0.000629      | 0.000182      | 0.00107      | 0.00165      | 0.00113      | 0.000336      | 0.000330     |
| Chromium [mg/L]                   | < 0.0005      | < 0.0005       | < 0.0005       | 0.0009       | 0.0007       | 0.0011       | < 0.0005      | < 0.0005      | < 0.0005      | 0.0007       | 0.0006       | < 0.0005     | 0.0007        | < 0.0005     |
| Copper [mg/L]                     | 0.0118        | 0.0011         | 0.0010         | 0.0047       | 0.0053       | 0.0129       | 0.0033        | 0.0022        | 0.0026        | 0.0032       | 0.0322       | 0.0147       | 0.0022        | 0.0087       |
| Iron [mg/L]                       | 0.194         | 0.041          | 0.053          | 0.304        | 0.264        | 0.418        | 0.120         | 0.084         | 0.066         | 0.242        | 0.299        | 0.131        | 0.182         | 0.080        |
| Potassium [mg/L]                  | 0.721         | 4.60           | 5.35           | 1.38         | 1.25         | 2.12         | 1.20          | 0.416         | 0.763         | 1.37         | 0.991        | 5.55         | 0.954         | 1.90         |
| Lithium [mg/L]                    | < 0.001       | 0.001          | 0.001          | < 0.001      | < 0.001      | < 0.001      | < 0.001       | < 0.001       | < 0.001       | < 0.001      | < 0.001      | < 0.001      | < 0.001       | 0.001        |

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# Shake Flask Leach (4:1 ratio)

LR Report :

CA10322-AUG10

| Analysis          | 16:<br>R82-03 | 17:<br>R280-01 | 18:<br>R280-02 | 19:<br>B8-01 | 20:<br>B8-02 | 21:<br>B8-03 | 22:<br>B6A-01 | 23:<br>B6A-02 | 24:<br>B6A-03 | 25:<br>B5-01 | 26:<br>B5-02 | 27:<br>B5-03 | 28:<br>B10-01 | 29:<br>B3-01 |
|-------------------|---------------|----------------|----------------|--------------|--------------|--------------|---------------|---------------|---------------|--------------|--------------|--------------|---------------|--------------|
| Magnesium [mg/L]  | 0.751         | 0.337          | 0.393          | 0.062        | 0.742        | 0.158        | 0.238         | 0.130         | 0.030         | 0.155        | 0.459        | 3.64         | 0.040         | 0.928        |
| Manganese [mg/L]  | 0.00416       | 0.00165        | 0.00329        | 0.0133       | 0.0317       | 0.0290       | 0.0240        | 0.0177        | 0.00471       | 0.0251       | 0.117        | 0.0640       | 0.00473       | 0.0411       |
| Molybdenum [mg/L] | 0.00816       | 0.00025        | 0.00006        | 0.00041      | 0.00028      | 0.00044      | 0.00042       | 0.00070       | 0.00119       | 0.00026      | 0.00165      | 0.00121      | 0.00039       | 0.01376      |
| Sodium [mg/L]     | 3.06          | 6.04           | 5.98           | 2.20         | 0.96         | 3.62         | 0.84          | 0.58          | 1.47          | 1.68         | 1.25         | 2.42         | 2.70          | 0.73         |
| Nickel [mg/L]     | 0.0012        | 0.0003         | 0.0004         | 0.0016       | 0.0017       | 0.0055       | 0.0009        | 0.0007        | 0.0005        | 0.0013       | 0.0131       | 0.0056       | 0.0007        | 0.0023       |
| Lead [mg/L]       | 0.00009       | 0.00004        | 0.00005        | 0.00019      | 0.00025      | 0.00026      | 0.00010       | 0.00019       | 0.00010       | 0.00017      | 0.00024      | 0.00010      | 0.00013       | 0.00009      |
| Antimony [mg/L]   | < 0.0002      | < 0.0002       | < 0.0002       | < 0.0002     | < 0.0002     | < 0.0002     | < 0.0002      | 0.0002        | < 0.0002      | 0.0005       | 0.0004       | 0.0002       | < 0.0002      | 0.0003       |
| Selenium [mg/L]   | < 0.001       | < 0.001        | < 0.001        | < 0.001      | < 0.001      | < 0.001      | < 0.001       | < 0.001       | < 0.001       | < 0.001      | < 0.001      | < 0.001      | < 0.001       | < 0.001      |
| Tin [mg/L]        | < 0.00001     | < 0.00001      | < 0.00001      | < 0.00001    | < 0.00001    | < 0.00001    | < 0.00001     | 0.00038       | 0.00005       | 0.00003      | < 0.00001    | < 0.00001    | < 0.00001     | < 0.00001    |
| Strontium [mg/L]  | 0.0048        | 0.0119         | 0.0145         | 0.0010       | 0.0061       | 0.0493       | 0.0023        | 0.0010        | 0.0147        | 0.0015       | 0.0067       | 0.0495       | 0.0006        | 0.0388       |
| Titanium [mg/L]   | 0.0053        | 0.0032         | 0.0035         | 0.0048       | 0.0039       | 0.0044       | 0.0023        | 0.0019        | 0.0016        | 0.0036       | 0.0036       | 0.0021       | 0.0064        | 0.0024       |
| Thallium [mg/L]   | < 0.00002     | < 0.00002      | < 0.00002      | < 0.00002    | < 0.00002    | < 0.00002    | < 0.00002     | 0.00011       | 0.00005       | 0.00004      | 0.00002      | < 0.00002    | < 0.00002     | < 0.00002    |
| Uranium [mg/L]    | 0.000033      | 0.000150       | 0.000148       | 0.000105     | 0.000080     | 0.000296     | 0.000049      | 0.000172      | 0.000082      | 0.000099     | 0.000252     | 0.000086     | 0.000080      | 0.00104      |
| Vanadium [mg/L]   | 0.0169        | 0.00245        | 0.00189        | 0.00059      | 0.00058      | 0.00066      | 0.00042       | 0.00034       | 0.00033       | 0.00043      | 0.00042      | 0.00058      | 0.00148       | 0.00045      |
| Tungsten [mg/L]   | 0.00267       | 0.00015        | 0.00006        | < 0.00003    | < 0.00003    | < 0.00003    | < 0.00003     | 0.00037       | 0.00006       | < 0.00003    | < 0.00003    | 0.00008      | 0.00007       | 0.00016      |
| Yttrium [mg/L]    | 0.000062      | 0.000026       | 0.000042       | 0.000397     | 0.000464     | 0.00147      | 0.000216      | 0.000399      | 0.000303      | 0.000301     | 0.00235      | 0.000376     | 0.000181      | 0.000093     |
| Zinc [mg/L]       | 0.002         | < 0.001        | < 0.001        | 0.003        | 0.002        | 0.003        | < 0.001       | < 0.001       | 0.001         | 0.002        | 0.002        | 0.002        | 0.002         | 0.001        |

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Fax: 416-367-4681

Shake Flask Leach (4:1 ratio)

Monday, September 20, 2010

Date Rec. : 19 August 2010

LR Report: CA10322-AUG10

Reference: Meliadine (Golder 10-1127-0101)

Copy: #1

# CERTIFICATE OF ANALYSIS

## Final Report

| Analysis                          | 30:<br>B3-02 | 31:<br>B3-03 | 32:<br>B1A-01 | 33:<br>B1A-02 | 34:<br>B1A-03 | 35:<br>R11-01 | 36:<br>R11-02 | 37:<br>R11-03 | 38:<br>T43-01 | 39:<br>T43-02 | 40:<br>T43-03 | 41:<br>T43-05 | 42:<br>R82-01 |
|-----------------------------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Sample Date & Time                |              |              |               |               |               |               |               |               |               |               |               |               |               |
| Sample [weight(g)]                | 200          | 200          | 200           | 200           | 200           | 200           | 200           | 200           | 200           | 200           | 200           | 200           | 200           |
| Volume mL [D.I. H <sub>2</sub> O] | 800          | 800          | 800           | 800           | 800           | 800           | 800           | 800           | 800           | 800           | 800           | 800           | 800           |
| Initial pH [units]                | 8.50         | 8.87         | 6.14          | 5.94          | 5.71          | 9.29          | 9.49          | 9.06          | 8.99          | 8.49          | 7.10          | 9.61          | 5.68          |
| Final pH [units]                  | 8.73         | 8.75         | 6.65          | 6.36          | 7.13          | 9.48          | 9.52          | 9.24          | 9.56          | 9.45          | 9.86          | 9.57          | 8.39          |
| Silver [mg/L]                     | 0.00002      | 0.00002      | 0.00003       | 0.00007       | 0.00003       | 0.00002       | 0.00001       | 0.00002       | 0.00002       | 0.00003       | 0.00002       | 0.00001       | 0.00013       |
| Aluminum [mg/L]                   | 0.17         | 0.16         | 0.28          | 0.30          | 0.30          | 1.24          | 1.35          | 1.17          | 0.97          | 1.08          | 1.03          | 1.15          | 0.39          |
| Arsenic [mg/L]                    | 0.0106       | 0.0304       | 0.0063        | 0.0042        | 0.0082        | 0.0041        | 0.0003        | 0.0005        | 0.0012        | 0.0003        | 0.0011        | 0.0003        | 0.0059        |
| Boron [mg/L]                      | 0.0025       | 0.0020       | 0.0046        | 0.0051        | 0.0044        | 0.0020        | 0.0014        | 0.0017        | 0.0035        | 0.0025        | 0.0028        | 0.0022        | 0.0041        |
| Beryllium [mg/L]                  | < 0.00002    | < 0.00002    | < 0.00002     | < 0.00002     | < 0.00002     | < 0.00002     | < 0.00002     | < 0.00002     | < 0.00002     | < 0.00002     | < 0.00002     | < 0.00002     | < 0.00002     |
| Bismuth [mg/L]                    | < 0.00001    | < 0.00001    | < 0.00001     | < 0.00001     | < 0.00001     | < 0.00001     | < 0.00001     | < 0.00001     | < 0.00001     | < 0.00001     | < 0.00001     | < 0.00001     | 0.00009       |
| Calcium [mg/L]                    | 12.2         | 12.8         | 1.64          | 4.35          | 0.18          | 5.26          | 5.72          | 5.18          | 5.93          | 10.3          | 4.81          | 5.98          | 1.26          |
| Cadmium [mg/L]                    | < 0.000003   | 0.000004     | 0.000014      | 0.000019      | 0.000019      | < 0.000003    | < 0.000003    | < 0.000003    | < 0.000003    | < 0.000003    | < 0.000003    | < 0.000003    | 0.000121      |
| Cobalt [mg/L]                     | 0.000155     | 0.000451     | 0.00197       | 0.00212       | 0.00157       | 0.000025      | 0.000025      | 0.000065      | 0.000170      | 0.000572      | 0.000084      | 0.000062      | 0.000326      |
| Chromium [mg/L]                   | < 0.0005     | < 0.0005     | 0.0007        | 0.0008        | 0.0009        | < 0.0005      | < 0.0005      | < 0.0005      | 0.0006        | < 0.0005      | < 0.0005      | < 0.0005      | 0.0009        |
| Copper [mg/L]                     | 0.0103       | 0.0236       | 0.0036        | 0.0039        | 0.0045        | 0.0025        | 0.0031        | 0.0073        | 0.0137        | 0.0248        | 0.0020        | 0.0072        | 0.0142        |
| Iron [mg/L]                       | 0.072        | 0.058        | 0.336         | 0.337         | 0.354         | 0.021         | 0.019         | 0.042         | 0.080         | 0.080         | 0.042         | 0.042         | 0.327         |
| Potassium [mg/L]                  | 1.95         | 2.38         | 4.13          | 4.70          | 1.86          | 4.27          | 5.11          | 4.31          | 2.86          | 1.36          | 2.78          | 4.38          | 5.49          |
| Lithium [mg/L]                    | 0.002        | 0.002        | < 0.001       | 0.002         | < 0.001       | 0.001         | 0.002         | 0.001         | < 0.001       | 0.004         | 0.001         | 0.001         | 0.006         |

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# Shake Flask Leach (4:1 ratio)

LR Report :

CA10322-AUG10

| Analysis          | 30:<br>B3-02 | 31:<br>B3-03 | 32:<br>B1A-01 | 33:<br>B1A-02 | 34:<br>B1A-03 | 35:<br>R11-01 | 36:<br>R11-02 | 37:<br>R11-03 | 38:<br>T43-01 | 39:<br>T43-02 | 40:<br>T43-03 | 41:<br>T43-05 | 42:<br>R82-01 |
|-------------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Magnesium [mg/L]  | 0.785        | 0.992        | 0.652         | 1.64          | 0.065         | 0.255         | 0.256         | 0.517         | 0.941         | 1.94          | 0.534         | 0.564         | 0.828         |
| Manganese [mg/L]  | 0.00300      | 0.0216       | 0.0600        | 0.124         | 0.0152        | 0.00109       | 0.00190       | 0.00337       | 0.00173       | 0.00201       | 0.00091       | 0.00086       | 0.00382       |
| Molybdenum [mg/L] | 0.00390      | 0.00913      | 0.00093       | 0.00045       | 0.00068       | 0.00004       | 0.00049       | 0.00009       | 0.00019       | 0.00019       | 0.00007       | 0.00342       | 0.00080       |
| Sodium [mg/L]     | 1.27         | 1.43         | 4.28          | 4.30          | 3.97          | 5.01          | 4.87          | 5.56          | 3.41          | 3.22          | 2.94          | 4.00          | 3.94          |
| Nickel [mg/L]     | 0.0024       | 0.0042       | 0.0024        | 0.0033        | 0.0020        | 0.0001        | 0.0002        | 0.0004        | 0.0022        | 0.0146        | 0.0008        | 0.0008        | 0.0012        |
| Lead [mg/L]       | 0.00007      | 0.00008      | 0.00028       | 0.00013       | 0.00033       | 0.00013       | < 0.00002     | 0.00003       | 0.00003       | 0.00002       | < 0.00002     | < 0.00002     | 0.00016       |
| Antimony [mg/L]   | 0.0002       | 0.0003       | < 0.0002      | < 0.0002      | < 0.0002      | < 0.0002      | < 0.0002      | < 0.0002      | < 0.0002      | < 0.0002      | < 0.0002      | < 0.0002      | < 0.0002      |
| Selenium [mg/L]   | < 0.001      | < 0.001      | < 0.001       | < 0.001       | < 0.001       | < 0.001       | < 0.001       | < 0.001       | < 0.001       | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| Tin [mg/L]        | < 0.00001    | < 0.00001    | < 0.00001     | < 0.00001     | < 0.00001     | < 0.00001     | < 0.00001     | < 0.00001     | < 0.00001     | < 0.00001     | < 0.00001     | < 0.00001     | 0.00033       |
| Strontium [mg/L]  | 0.0415       | 0.0296       | 0.0096        | 0.0221        | 0.0013        | 0.0130        | 0.0095        | 0.0089        | 0.0143        | 0.0189        | 0.0112        | 0.0093        | 0.0029        |
| Titanium [mg/L]   | 0.0020       | 0.0012       | 0.0057        | 0.0051        | 0.0053        | 0.0021        | 0.0017        | 0.0029        | 0.0036        | 0.0029        | 0.0013        | 0.0014        | 0.0139        |
| Thallium [mg/L]   | < 0.00002    | < 0.00002    | < 0.00002     | < 0.00002     | < 0.00002     | < 0.00002     | < 0.00002     | < 0.00002     | < 0.00002     | < 0.00002     | < 0.00002     | 0.00002       | 0.00015       |
| Uranium [mg/L]    | 0.000579     | 0.000483     | 0.000085      | 0.000045      | 0.000148      | 0.00262       | 0.000196      | 0.000111      | 0.000554      | 0.000663      | 0.000016      | 0.000100      | 0.000144      |
| Vanadium [mg/L]   | 0.00042      | 0.00064      | 0.00068       | 0.00042       | 0.00098       | 0.00194       | 0.00428       | 0.00303       | 0.0214        | 0.0174        | 0.0250        | 0.0108        | 0.00340       |
| Tungsten [mg/L]   | 0.00021      | 0.00016      | < 0.00003     | < 0.00003     | 0.00012       | 0.00033       | < 0.00003     | < 0.00003     | 0.00079       | 0.00130       | 0.00047       | 0.00031       | 0.00072       |
| Yttrium [mg/L]    | 0.000149     | 0.000103     | 0.000222      | 0.000188      | 0.000340      | 0.000021      | 0.000022      | 0.000631      | 0.000065      | 0.000148      | 0.000008      | 0.000010      | 0.000167      |
| Zinc [mg/L]       | < 0.001      | 0.001        | 0.002         | 0.003         | 0.002         | 0.001         | < 0.001       | 0.001         | < 0.001       | < 0.001       | 0.002         | < 0.001       | 0.001         |

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**Shake Flask Leach (4:1 ratio)**

Monday, September 20, 2010

**Date Rec. :** 19 August 2010

**LR Report:** CA10322-AUG10

**Reference:** Meliadine (Golder 10-1127-0101)

**Copy:** #1

# CERTIFICATE OF ANALYSIS

## Final Report

| Analysis                          | 43:<br>R82-02 | 44:<br>B12-01 | 45:<br>B12-02 | 46:<br>B12-03 | 47:<br>R9-01 | 48:<br>R9-02 | 49:<br>R9-03 | 50:<br>B11A-1 | 51:<br>B11A-2 | 52:<br>B11A-3 | 53:<br>R7-01 | 54:<br>R7-02 | 55:<br>R7-03 |
|-----------------------------------|---------------|---------------|---------------|---------------|--------------|--------------|--------------|---------------|---------------|---------------|--------------|--------------|--------------|
| Sample Date & Time                |               |               |               |               |              |              |              |               |               |               |              |              |              |
| Sample [weight(g)]                | 200           | 200           | 200           | 200           | 200          | 200          | 200          | 200           | 200           | 200           | 200          | 200          | 200          |
| Volume mL [D.I. H <sub>2</sub> O] | 800           | 800           | 800           | 800           | 800          | 800          | 800          | 800           | 800           | 800           | 800          | 800          | 800          |
| Initial pH [units]                | 6.53          | 5.84          | 5.98          | 5.96          | 6.43         | 6.85         | 7.38         | 5.99          | 5.70          | 5.54          | 6.21         | 6.37         | 6.80         |
| Final pH [units]                  | 8.36          | 6.42          | 7.63          | 6.65          | 9.02         | 9.45         | 9.49         | 7.21          | 6.75          | 6.69          | 9.65         | 9.37         | 9.58         |
| Silver [mg/L]                     | 0.00009       | 0.00005       | 0.00005       | 0.00003       | 0.00005      | 0.00002      | 0.00005      | 0.00002       | 0.00003       | 0.00002       | 0.00007      | 0.00003      | 0.00003      |
| Aluminum [mg/L]                   | 0.52          | 0.25          | 0.07          | 0.10          | 0.48         | 0.90         | 1.11         | 0.44          | 0.47          | 0.36          | 1.75         | 0.72         | 1.29         |
| Arsenic [mg/L]                    | 0.0008        | 0.0009        | 0.0008        | 0.0007        | 0.0018       | 0.0005       | < 0.0002     | 0.0010        | 0.0015        | 0.0006        | 0.0005       | < 0.0002     | 0.0008       |
| Boron [mg/L]                      | 0.0019        | 0.0040        | 0.0024        | 0.0025        | 0.0032       | 0.0025       | 0.0008       | 0.0036        | 0.0050        | 0.0044        | 0.0010       | 0.0024       | 0.0023       |
| Beryllium [mg/L]                  | < 0.00002     | < 0.00002     | < 0.00002     | < 0.00002     | 0.00003      | 0.00005      | < 0.00002    | < 0.00002     | < 0.00002     | < 0.00002     | < 0.00002    | < 0.00002    | < 0.00002    |
| Bismuth [mg/L]                    | 0.00072       | 0.00005       | 0.00001       | < 0.00001     | < 0.00001    | < 0.00001    | < 0.00001    | 0.00004       | < 0.00001     | < 0.00001     | < 0.00001    | < 0.00001    | < 0.00001    |
| Calcium [mg/L]                    | 1.34          | 0.19          | 0.16          | 0.26          | 7.89         | 5.99         | 3.51         | 0.12          | 0.16          | 0.07          | 1.95         | 11.6         | 2.38         |
| Cadmium [mg/L]                    | 0.000067      | 0.000031      | 0.000009      | 0.000006      | < 0.000003   | < 0.000003   | 0.000182     | 0.000010      | 0.000010      | 0.000003      | < 0.000003   | < 0.000003   | < 0.000003   |
| Cobalt [mg/L]                     | 0.000777      | 0.000530      | 0.000117      | 0.000197      | 0.000287     | 0.000163     | 0.000249     | 0.000774      | 0.000544      | 0.000483      | 0.000146     | 0.000189     | 0.000337     |
| Chromium [mg/L]                   | 0.0007        | 0.0006        | < 0.0005      | < 0.0005      | < 0.0005     | < 0.0005     | 0.0011       | 0.0008        | 0.0009        | 0.0007        | 0.0007       | < 0.0005     | 0.0006       |
| Copper [mg/L]                     | 0.0189        | 0.0046        | 0.0037        | 0.0020        | 0.0231       | 0.0071       | 0.0498       | 0.0042        | 0.0030        | 0.0021        | 0.0098       | 0.0043       | 0.0177       |
| Iron [mg/L]                       | 0.387         | 0.158         | 0.052         | 0.055         | 0.145        | 0.068        | 0.127        | 0.275         | 0.320         | 0.279         | 0.154        | 0.072        | 0.178        |
| Potassium [mg/L]                  | 4.89          | 1.54          | 1.71          | 1.28          | 1.86         | 4.89         | 2.81         | 1.47          | 1.19          | 1.58          | 0.589        | 1.28         | 3.84         |
| Lithium [mg/L]                    | 0.002         | < 0.001       | < 0.001       | < 0.001       | < 0.001      | 0.001        | 0.002        | < 0.001       | 0.001         | < 0.001       | < 0.001      | < 0.001      | < 0.001      |



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# Shake Flask Leach (4:1 ratio)

LR Report :

CA10322-AUG10

| Analysis          | 43:<br>R82-02 | 44:<br>B12-01 | 45:<br>B12-02 | 46:<br>B12-03 | 47:<br>R9-01 | 48:<br>R9-02 | 49:<br>R9-03 | 50:<br>B11A-1 | 51:<br>B11A-2 | 52:<br>B11A-3 | 53:<br>R7-01 | 54:<br>R7-02 | 55:<br>R7-03 |
|-------------------|---------------|---------------|---------------|---------------|--------------|--------------|--------------|---------------|---------------|---------------|--------------|--------------|--------------|
| Magnesium [mg/L]  | 0.976         | 0.150         | 0.099         | 0.178         | 2.00         | 1.15         | 1.06         | 0.067         | 0.070         | 0.050         | 0.755        | 2.27         | 0.615        |
| Manganese [mg/L]  | 0.00711       | 0.00865       | 0.00714       | 0.00664       | 0.00338      | 0.00177      | 0.00281      | 0.00742       | 0.00691       | 0.00659       | 0.00244      | 0.00269      | 0.00310      |
| Molybdenum [mg/L] | 0.00413       | 0.00047       | 0.00067       | 0.00030       | 0.00105      | 0.00218      | 0.00103      | 0.00047       | 0.00045       | 0.00042       | 0.00042      | 0.00010      | 0.00020      |
| Sodium [mg/L]     | 2.58          | 1.11          | 1.21          | 1.24          | 3.94         | 3.00         | 4.34         | 2.90          | 2.67          | 3.90          | 3.50         | 3.16         | 4.00         |
| Nickel [mg/L]     | 0.0028        | 0.0015        | 0.0005        | 0.0006        | 0.0024       | 0.0021       | 0.0037       | 0.0013        | 0.0010        | 0.0008        | 0.0008       | 0.0044       | 0.0021       |
| Lead [mg/L]       | 0.00012       | 0.00011       | 0.00005       | 0.00007       | 0.00003      | 0.00003      | 0.00029      | 0.00191       | 0.00024       | 0.00048       | 0.00004      | < 0.00002    | 0.00005      |
| Antimony [mg/L]   | < 0.0002      | < 0.0002      | < 0.0002      | < 0.0002      | < 0.0002     | < 0.0002     | 0.0004       | < 0.0002      | < 0.0002      | < 0.0002      | < 0.0002     | < 0.0002     | < 0.0002     |
| Selenium [mg/L]   | < 0.001       | < 0.001       | < 0.001       | < 0.001       | < 0.001      | < 0.001      | < 0.001      | < 0.001       | < 0.001       | < 0.001       | < 0.001      | < 0.001      | < 0.001      |
| Tin [mg/L]        | 0.00009       | < 0.00001     | < 0.00001     | < 0.00001     | < 0.00001    | < 0.00001    | 0.00003      | < 0.00001     | < 0.00001     | < 0.00001     | < 0.00001    | < 0.00001    | < 0.00001    |
| Strontium [mg/L]  | 0.0029        | 0.0013        | 0.0765        | 0.0018        | 0.0101       | 0.0142       | 0.0114       | 0.0010        | 0.0021        | 0.0008        | 0.0034       | 0.0392       | 0.0049       |
| Titanium [mg/L]   | 0.0094        | 0.0036        | 0.0018        | 0.0016        | 0.0050       | 0.0027       | 0.0036       | 0.0090        | 0.0111        | 0.0096        | 0.0049       | 0.0028       | 0.0055       |
| Thallium [mg/L]   | 0.00009       | 0.00003       | < 0.00002     | < 0.00002     | < 0.00002    | < 0.00002    | < 0.00002    | < 0.00002     | < 0.00002     | < 0.00002     | < 0.00002    | < 0.00002    | < 0.00002    |
| Uranium [mg/L]    | 0.000188      | 0.000121      | 0.000060      | 0.000060      | 0.000084     | 0.000109     | 0.000116     | 0.000186      | 0.000113      | 0.000098      | 0.000073     | 0.000209     | 0.000094     |
| Vanadium [mg/L]   | 0.00295       | 0.00060       | 0.00093       | 0.00065       | 0.00440      | 0.0149       | 0.0234       | 0.00199       | 0.00175       | 0.00112       | 0.0189       | 0.0102       | 0.0220       |
| Tungsten [mg/L]   | 0.00041       | 0.00005       | 0.00014       | < 0.00003     | 0.00212      | 0.07576      | 0.04058      | 0.00101       | 0.00052       | 0.00034       | 0.00064      | 0.00099      | 0.00062      |
| Yttrium [mg/L]    | 0.000159      | 0.000473      | 0.000168      | 0.000270      | 0.000044     | 0.000032     | 0.000075     | 0.000527      | 0.000253      | 0.000243      | 0.000100     | 0.000033     | 0.000110     |
| Zinc [mg/L]       | < 0.001       | 0.001         | 0.001         | < 0.001       | < 0.001      | 0.001        | 0.007        | 0.002         | 0.002         | 0.004         | < 0.001      | 0.002        | 0.002        |

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Shake Flask Leach (4:1 ratio)

Monday, September 20, 2010

Date Rec. : 19 August 2010

LR Report: CA10322-AUG10

Reference: Meliadine (Golder 10-1127-0101)

Copy: #1

# CERTIFICATE OF ANALYSIS

## Final Report

| Analysis                          | 56:<br>R7-04 | 57:<br>R7-05 | 58:<br>B10-02 | 59:<br>R5-01 | 60:<br>R5-02 | 61:<br>R5-03 | 62:<br>R280-03 | 63:<br>B10-03 | 64:<br>R16-01 | 65:<br>R16-02 | 66:<br>R16-03 | 67:<br>R16-04 | 68:<br>R16-05 |
|-----------------------------------|--------------|--------------|---------------|--------------|--------------|--------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Sample Date & Time                |              |              |               |              |              |              |                |               |               |               |               |               |               |
| Sample [weight(g)]                | 200          | 200          | 200           | 200          | 200          | 200          | 200            | 200           | 200           | 200           | 200           | 200           | 200           |
| Volume mL [D.I. H <sub>2</sub> O] | 800          | 800          | 800           | 800          | 800          | 800          | 800            | 800           | 800           | 800           | 800           | 800           | 800           |
| Initial pH [units]                | 8.78         | 7.58         | 5.96          | 6.37         | 8.58         | 7.51         | 9.17           | 6.35          | 9.75          | 9.59          | 9.48          | 9.40          | 9.29          |
| Final pH [units]                  | 10.03        | 9.64         | 7.69          | 8.47         | 9.35         | 7.73         | 8.90           | 6.76          | 9.67          | 9.62          | 9.45          | 9.49          | 9.04          |
| Silver [mg/L]                     | 0.00002      | 0.00003      | 0.00002       | 0.00001      | < 0.00001    | 0.00010      | 0.00007        | 0.00006       | < 0.00001     | 0.00003       | 0.00002       | 0.00003       | 0.00001       |
| Aluminum [mg/L]                   | 1.08         | 1.00         | 0.33          | 0.63         | 1.26         | 0.15         | 0.69           | 0.29          | 0.57          | 0.39          | 0.44          | 0.35          | 0.68          |
| Arsenic [mg/L]                    | < 0.0002     | < 0.0002     | 0.0036        | < 0.0002     | 0.0003       | 0.0003       | 0.0007         | 0.0012        | 0.0161        | 0.0071        | 0.0066        | 0.0032        | 0.0426        |
| Boron [mg/L]                      | 0.0016       | 0.0021       | 0.0036        | 0.0012       | 0.0011       | 0.0016       | 0.0003         | 0.0042        | 0.0042        | 0.0043        | 0.0021        | 0.0051        | 0.0078        |
| Beryllium [mg/L]                  | < 0.00002    | < 0.00002    | < 0.00002     | < 0.00002    | < 0.00002    | < 0.00002    | < 0.00002      | < 0.00002     | < 0.00002     | < 0.00002     | < 0.00002     | < 0.00002     | < 0.00002     |
| Bismuth [mg/L]                    | < 0.00001    | < 0.00001    | < 0.00001     | < 0.00001    | < 0.00001    | 0.00007      | < 0.00001      | < 0.00001     | < 0.00001     | < 0.00001     | 0.00010       | < 0.00001     | < 0.00001     |
| Calcium [mg/L]                    | 5.95         | 4.55         | 0.11          | 0.39         | 4.07         | 12.6         | 6.71           | 0.53          | 5.56          | 7.77          | 9.04          | 9.74          | 7.14          |
| Cadmium [mg/L]                    | < 0.000003   | < 0.000003   | 0.000006      | 0.000003     | 0.000003     | 0.000095     | 0.000075       | 0.000031      | < 0.000003    | < 0.000003    | 0.000025      | < 0.000003    | < 0.000003    |
| Cobalt [mg/L]                     | 0.000045     | 0.000210     | 0.000506      | 0.000026     | 0.000067     | 0.000173     | 0.000223       | 0.000483      | 0.000073      | 0.000175      | 0.000442      | 0.000556      | 0.000150      |
| Chromium [mg/L]                   | < 0.0005     | < 0.0005     | < 0.0005      | < 0.0005     | < 0.0005     | < 0.0005     | 0.0008         | < 0.0005      | < 0.0005      | < 0.0005      | 0.0006        | < 0.0005      | < 0.0005      |
| Copper [mg/L]                     | 0.0028       | 0.0069       | 0.0035        | < 0.0005     | 0.0006       | 0.0009       | 0.0017         | 0.0020        | 0.0025        | 0.0041        | 0.0096        | 0.0090        | 0.0130        |
| Iron [mg/L]                       | 0.061        | 0.113        | 0.204         | 0.036        | 0.029        | 0.024        | 0.035          | 0.195         | 0.010         | 0.043         | 0.098         | 0.105         | 0.048         |
| Potassium [mg/L]                  | 0.720        | 1.50         | 0.977         | 2.19         | 3.09         | 4.48         | 5.93           | 2.68          | 9.92          | 8.00          | 11.6          | 7.20          | 5.74          |
| Lithium [mg/L]                    | 0.002        | < 0.001      | < 0.001       | < 0.001      | 0.001        | 0.001        | < 0.001        | < 0.001       | < 0.001       | < 0.001       | < 0.001       | < 0.001       | < 0.001       |

Online LIMS



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# Shake Flask Leach (4:1 ratio)

LR Report :

CA10322-AUG10

| Analysis          | 56:<br>R7-04 | 57:<br>R7-05 | 58:<br>B10-02 | 59:<br>R5-01 | 60:<br>R5-02 | 61:<br>R5-03 | 62:<br>R280-03 | 63:<br>B10-03 | 64:<br>R16-01 | 65:<br>R16-02 | 66:<br>R16-03 | 67:<br>R16-04 | 68:<br>R16-05 |
|-------------------|--------------|--------------|---------------|--------------|--------------|--------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Magnesium [mg/L]  | 0.565        | 0.765        | 0.046         | 0.057        | 0.187        | 0.436        | 0.676          | 0.269         | 0.553         | 1.08          | 1.69          | 2.04          | 1.57          |
| Manganese [mg/L]  | 0.00100      | 0.00199      | 0.00600       | 0.00131      | 0.00191      | 0.0476       | 0.00576        | 0.0280        | 0.00040       | 0.00086       | 0.00251       | 0.00225       | 0.00109       |
| Molybdenum [mg/L] | 0.00002      | 0.00027      | 0.00046       | < 0.00001    | 0.00004      | 0.00031      | < 0.00001      | 0.00042       | 0.00038       | 0.00032       | < 0.00001     | 0.00016       | 0.00352       |
| Sodium [mg/L]     | 4.84         | 3.74         | 3.28          | 6.08         | 6.54         | 6.98         | 7.06           | 3.53          | 3.51          | 4.21          | 3.29          | 4.00          | 4.73          |
| Nickel [mg/L]     | 0.0002       | 0.0010       | 0.0009        | < 0.0001     | 0.0002       | 0.0004       | 0.0009         | 0.0007        | 0.0012        | 0.0036        | 0.0067        | 0.0060        | 0.0021        |
| Lead [mg/L]       | < 0.00002    | 0.00003      | 0.00013       | 0.00003      | 0.00006      | 0.00020      | 0.00027        | 0.00017       | < 0.00002     | 0.00002       | 0.00022       | 0.00005       | < 0.00002     |
| Antimony [mg/L]   | < 0.0002     | < 0.0002     | < 0.0002      | < 0.0002     | < 0.0002     | < 0.0002     | < 0.0002       | < 0.0002      | 0.0054        | 0.0055        | 0.0053        | 0.0076        | 0.0030        |
| Selenium [mg/L]   | < 0.001      | < 0.001      | < 0.001       | < 0.001      | < 0.001      | < 0.001      | < 0.001        | < 0.001       | < 0.001       | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| Tin [mg/L]        | < 0.00001    | < 0.00001    | < 0.00001     | < 0.00001    | < 0.00001    | 0.00012      | < 0.00001      | < 0.00001     | < 0.00001     | < 0.00001     | < 0.00001     | < 0.00001     | < 0.00001     |
| Strontium [mg/L]  | 0.0095       | 0.0095       | 0.0013        | 0.0018       | 0.0117       | 0.0677       | 0.0178         | 0.0037        | 0.0109        | 0.0149        | 0.0187        | 0.0143        | 0.0131        |
| Titanium [mg/L]   | 0.0017       | 0.0028       | 0.0059        | 0.0028       | 0.0029       | 0.0022       | 0.0033         | 0.0067        | 0.0003        | 0.0021        | 0.0048        | 0.0048        | 0.0015        |
| Thallium [mg/L]   | < 0.00002    | < 0.00002    | < 0.00002     | < 0.00002    | < 0.00002    | 0.00009      | < 0.00002      | < 0.00002     | < 0.00002     | < 0.00002     | < 0.00002     | < 0.00002     | < 0.00002     |
| Uranium [mg/L]    | 0.000115     | 0.000132     | 0.000126      | 0.000026     | 0.000147     | 0.000132     | 0.000313       | 0.000067      | 0.000010      | 0.000012      | 0.000032      | 0.000019      | 0.000148      |
| Vanadium [mg/L]   | 0.0289       | 0.0226       | 0.00217       | 0.00159      | 0.00211      | 0.00139      | 0.00257        | 0.00078       | 0.0210        | 0.0258        | 0.0193        | 0.0228        | 0.00447       |
| Tungsten [mg/L]   | 0.00037      | 0.00038      | 0.00025       | 0.00017      | 0.00013      | 0.00033      | 0.00110        | 0.00007       | 0.00107       | 0.00094       | 0.00126       | 0.00069       | 0.00058       |
| Yttrium [mg/L]    | 0.000022     | 0.000075     | 0.000314      | 0.000052     | 0.000039     | 0.000101     | 0.000085       | 0.000166      | 0.000005      | 0.000014      | 0.000035      | 0.000023      | 0.000011      |
| Zinc [mg/L]       | < 0.001      | < 0.001      | 0.001         | < 0.001      | < 0.001      | < 0.001      | 0.003          | 0.001         | < 0.001       | 0.001         | 0.006         | 0.001         | < 0.001       |

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Shake Flask Leach (4:1 ratio)

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# CERTIFICATE OF ANALYSIS

## Final Report

| Analysis                          | 69:<br>R16-06 | 70:<br>R16-07 | 71:<br>R16-08 | 72:<br>R16-09 | 73:<br>B18-01 | 74:<br>B18-02 | 75:<br>B18-03 | 76:<br>R17-01 | 77:<br>R17-02 | 78:<br>R17-03 | 79:<br>B15-01 | 80:<br>B15-02 |
|-----------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Sample Date & Time                |               |               |               |               |               |               |               |               |               |               |               |               |
| Sample [weight(g)]                | 200           | 200           | 200           | 200           | 200           | 200           | 200           | 200           | 200           | 200           | 200           | 200           |
| Volume mL [D.I. H <sub>2</sub> O] | 800           | 800           | 800           | 800           | 800           | 800           | 800           | 800           | 800           | 800           | 800           | 800           |
| Initial pH [units]                | 9.81          | 9.77          | 9.18          | 8.45          | 6.54          | 6.22          | 6.69          | 6.11          | 9.79          | 9.80          | 6.21          | 6.21          |
| Final pH [units]                  | 9.89          | 9.94          | 9.62          | 9.34          | 8.21          | 6.87          | 6.98          | 7.15          | 9.52          | 9.86          | 7.02          | 6.49          |
| Silver [mg/L]                     | < 0.00001     | < 0.00001     | 0.00001       | 0.00001       | 0.00003       | 0.00002       | 0.00002       | < 0.00001     | < 0.00001     | < 0.00001     | 0.00004       | 0.00015       |
| Aluminum [mg/L]                   | 0.48          | 0.63          | 0.86          | 0.72          | 0.15          | 0.31          | 0.14          | < 0.01        | 1.12          | 0.58          | 0.19          | 0.35          |
| Arsenic [mg/L]                    | 0.0021        | 0.0021        | 0.0038        | 0.0044        | 0.0077        | 0.0032        | 0.0018        | 0.0005        | 0.0071        | 0.0154        | 0.0006        | 0.0011        |
| Boron [mg/L]                      | 0.0027        | 0.0026        | 0.0027        | 0.0007        | 0.0034        | 0.0054        | 0.0046        | 0.0057        | 0.0044        | 0.0042        | 0.0046        | 0.0025        |
| Beryllium [mg/L]                  | < 0.00002     | < 0.00002     | < 0.00002     | < 0.00002     | < 0.00002     | < 0.00002     | < 0.00002     | < 0.00002     | < 0.00002     | < 0.00002     | < 0.00002     | 0.00003       |
| Bismuth [mg/L]                    | < 0.00001     | < 0.00001     | < 0.00001     | < 0.00001     | < 0.00001     | < 0.00001     | < 0.00001     | < 0.00001     | < 0.00001     | < 0.00001     | < 0.00001     | 0.00013       |
| Calcium [mg/L]                    | 5.05          | 6.34          | 3.34          | 2.00          | 0.10          | 0.94          | 8.55          | 2.16          | 3.98          | 6.02          | 2.35          | 0.54          |
| Cadmium [mg/L]                    | < 0.000003    | < 0.000003    | < 0.000003    | 0.000014      | < 0.000003    | 0.000005      | 0.000018      | < 0.000003    | < 0.000003    | < 0.000003    | 0.000011      | 0.000151      |
| Cobalt [mg/L]                     | 0.000049      | 0.000035      | 0.000198      | 0.000291      | 0.000207      | 0.00146       | 0.00136       | 0.00160       | 0.000020      | 0.000045      | 0.000705      | 0.00294       |
| Chromium [mg/L]                   | < 0.0005      | < 0.0005      | < 0.0005      | 0.0007        | < 0.0005      | 0.0006        | < 0.0005      | < 0.0005      | < 0.0005      | < 0.0005      | < 0.0005      | 0.0008        |
| Copper [mg/L]                     | 0.0022        | 0.0013        | 0.0123        | 0.0527        | 0.0043        | 0.0097        | 0.0094        | < 0.0005      | < 0.0005      | 0.0020        | 0.0043        | 0.0107        |
| Iron [mg/L]                       | 0.024         | 0.038         | 0.106         | 0.201         | 0.054         | 0.229         | 0.100         | 0.003         | 0.003         | 0.012         | 0.135         | 0.251         |
| Potassium [mg/L]                  | 9.32          | 3.59          | 11.9          | 10.8          | 2.98          | 3.19          | 7.37          | 11.8          | 12.8          | 2.89          | 5.07          | 0.984         |
| Lithium [mg/L]                    | < 0.001       | < 0.001       | < 0.001       | < 0.001       | < 0.001       | 0.001         | < 0.001       | 0.001         | < 0.001       | < 0.001       | < 0.001       | < 0.001       |

Online LIMS



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Phone: 705-652-2000 FAX: 705-652-6365

# Shake Flask Leach (4:1 ratio)

LR Report :

CA10322-AUG10

| Analysis          | 69:<br>R16-06 | 70:<br>R16-07 | 71:<br>R16-08 | 72:<br>R16-09 | 73:<br>B18-01 | 74:<br>B18-02 | 75:<br>B18-03 | 76:<br>R17-01 | 77:<br>R17-02 | 78:<br>R17-03 | 79:<br>B15-01 | 80:<br>B15-02 |
|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Magnesium [mg/L]  | 0.384         | 0.591         | 0.589         | 1.19          | 0.058         | 0.312         | 1.96          | 2.36          | 0.363         | 0.584         | 0.911         | 0.212         |
| Manganese [mg/L]  | 0.00052       | 0.00075       | 0.00136       | 0.00267       | 0.00160       | 0.0122        | 0.0806        | 0.0119        | 0.00038       | 0.00039       | 0.0473        | 0.0235        |
| Molybdenum [mg/L] | 0.00032       | 0.00008       | 0.00028       | 0.00049       | 0.00255       | 0.00081       | 0.0129        | 0.00032       | 0.00018       | 0.00009       | 0.00053       | 0.00059       |
| Sodium [mg/L]     | 3.33          | 2.78          | 3.74          | 3.59          | 2.49          | 2.72          | 2.57          | 6.66          | 2.33          | 3.59          | 3.75          | 1.48          |
| Nickel [mg/L]     | 0.0010        | 0.0002        | 0.0043        | 0.0107        | 0.0005        | 0.0032        | 0.0033        | 0.0121        | 0.0002        | 0.0008        | 0.0012        | 0.0033        |
| Lead [mg/L]       | < 0.00002     | < 0.00002     | 0.00005       | 0.00029       | 0.00004       | 0.00013       | 0.00005       | < 0.00002     | < 0.00002     | < 0.00002     | 0.00026       | 0.00030       |
| Antimony [mg/L]   | 0.0100        | 0.0019        | 0.0024        | 0.0025        | 0.0003        | < 0.0002      | < 0.0002      | < 0.0002      | 0.0028        | 0.0084        | < 0.0002      | < 0.0002      |
| Selenium [mg/L]   | < 0.001       | < 0.001       | < 0.001       | < 0.001       | < 0.001       | < 0.001       | < 0.001       | 0.001         | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| Tin [mg/L]        | < 0.00001     | < 0.00001     | < 0.00001     | < 0.00001     | < 0.00001     | < 0.00001     | < 0.00001     | < 0.00001     | < 0.00001     | < 0.00001     | < 0.00001     | 0.00023       |
| Strontium [mg/L]  | 0.0123        | 0.0049        | 0.0058        | 0.0045        | 0.0006        | 0.0058        | 0.0329        | 0.0152        | 0.0168        | 0.0178        | 0.0085        | 0.0208        |
| Titanium [mg/L]   | 0.0007        | 0.0016        | 0.0042        | 0.0083        | 0.0019        | 0.0055        | 0.0032        | 0.0003        | < 0.0001      | 0.0003        | 0.0043        | 0.0051        |
| Thallium [mg/L]   | < 0.00002     | < 0.00002     | < 0.00002     | < 0.00002     | < 0.00002     | < 0.00002     | < 0.00002     | < 0.00002     | < 0.00002     | < 0.00002     | < 0.00002     | 0.00015       |
| Uranium [mg/L]    | 0.000007      | 0.000006      | 0.000052      | 0.000053      | 0.000032      | 0.000101      | 0.000080      | 0.000007      | 0.000001      | 0.000003      | 0.000095      | 0.000442      |
| Vanadium [mg/L]   | 0.0226        | 0.0287        | 0.00959       | 0.00777       | 0.00149       | 0.00086       | 0.00075       | 0.00008       | 0.00466       | 0.0270        | 0.00073       | 0.00050       |
| Tungsten [mg/L]   | 0.00100       | 0.00027       | 0.00066       | 0.00197       | 0.00023       | 0.00013       | 0.00011       | < 0.00003     | 0.00102       | 0.00146       | 0.00010       | 0.00034       |
| Yttrium [mg/L]    | 0.000005      | 0.000007      | 0.000036      | 0.000066      | 0.000061      | 0.000699      | 0.000229      | 0.000011      | 0.000001      | 0.000002      | 0.000210      | 0.00198       |
| Zinc [mg/L]       | < 0.001       | < 0.001       | < 0.001       | 0.004         | < 0.001       | 0.003         | 0.001         | < 0.001       | < 0.001       | < 0.001       | 0.002         | 0.001         |

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## Agnico-Eagle Mines Limited

Attn : Larry Connell

145 King Street East, Suite 400

Toronto, ON

M5C 2Y7,

Phone: 416-947-1212

Fax: 416-367-4681

Shake Flask Leach (4:1 ratio)

Monday, September 20, 2010

Date Rec. : 19 August 2010

LR Report: CA10322-AUG10

Reference: Meliadine (Golder 10-1127-0101)

Copy: #1

# CERTIFICATE OF ANALYSIS

## Final Report

| Analysis                          | 3:<br>Analysis<br>Approval<br>Date | 4:<br>Analysis<br>Approval<br>Time | 5:<br>R350-01 | 6:<br>R350-02 | 7:<br>R350-03 | 8:<br>R350-04 | 9:<br>R359-01 | 10:<br>T43-04 | 11:<br>R359-02 | 12:<br>R359-03 | 13:<br>R2-01 | 14:<br>R2-02 | 15:<br>R2-03 |
|-----------------------------------|------------------------------------|------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|--------------|--------------|--------------|
| Sample Date & Time                |                                    |                                    |               |               |               |               |               |               |                |                |              |              |              |
| Sample [weight(g)]                | 20-Sep-10                          | 12:37                              | 200           | 200           | 200           | 200           | 200           | 200           | 200            | 200            | 200          | 200          | 200          |
| Volume mL [D.I. H <sub>2</sub> O] | 20-Sep-10                          | 12:37                              | 800           | 800           | 800           | 800           | 800           | 800           | 800            | 800            | 800          | 800          | 800          |
| Initial pH [units]                | 20-Sep-10                          | 12:37                              | 8.08          | 8.62          | 5.62          | 6.77          | 8.55          | 9.31          | 9.58           | 7.80           | 9.65         | 8.26         | 9.65         |
| Final pH [units]                  | 20-Sep-10                          | 12:37                              | 9.34          | 9.38          | 9.32          | 9.65          | 9.74          | 9.75          | 9.78           | 9.69           | 9.70         | 9.65         | 9.82         |
| Silver [mg/L]                     | 17-Sep-10                          | 11:25                              | 0.00022       | 0.00016       | 0.00009       | 0.00005       | 0.00003       | 0.00007       | 0.00002        | 0.00003        | 0.00003      | 0.00003      | 0.00002      |
| Aluminum [mg/L]                   | 16-Sep-10                          | 14:41                              | 1.84          | 1.36          | 0.71          | 1.45          | 1.35          | 0.77          | 1.28           | 1.24           | 1.02         | 0.84         | 0.98         |
| Arsenic [mg/L]                    | 17-Sep-10                          | 11:26                              | 0.0009        | 0.0017        | 0.0017        | 0.0004        | 0.0130        | 0.0023        | 0.0007         | 0.0109         | 0.0040       | 0.0008       | 0.0011       |
| Boron [mg/L]                      | 17-Sep-10                          | 11:26                              | 0.0012        | 0.0011        | 0.0013        | 0.0008        | 0.0014        | 0.0035        | 0.0016         | 0.0180         | 0.0033       | 0.0021       | 0.0013       |
| Beryllium [mg/L]                  | 17-Sep-10                          | 11:26                              | 0.00002       | < 0.00002     | < 0.00002     | < 0.00002     | < 0.00002     | < 0.00002     | < 0.00002      | < 0.00002      | < 0.00002    | < 0.00002    | < 0.00002    |
| Bismuth [mg/L]                    | 17-Sep-10                          | 11:26                              | 0.00011       | 0.00008       | 0.00005       | 0.00002       | < 0.00001     | 0.00018       | < 0.00001      | < 0.00001      | < 0.00001    | < 0.00001    | < 0.00001    |
| Calcium [mg/L]                    | 16-Sep-10                          | 14:41                              | 0.77          | 3.12          | 4.40          | 0.90          | 4.15          | 12.5          | 6.31           | 2.30           | 5.60         | 7.35         | 5.79         |
| Cadmium [mg/L]                    | 17-Sep-10                          | 11:26                              | 0.000045      | 0.000043      | 0.000013      | 0.000004      | < 0.000003    | 0.000033      | < 0.000003     | < 0.000003     | < 0.000003   | < 0.000003   | < 0.000003   |
| Cobalt [mg/L]                     | 17-Sep-10                          | 11:26                              | 0.000376      | 0.000316      | 0.000125      | 0.000146      | 0.000146      | 0.000583      | 0.000056       | 0.000171       | 0.000026     | 0.000063     | 0.000077     |
| Chromium [mg/L]                   | 17-Sep-10                          | 11:26                              | 0.0005        | < 0.0005      | < 0.0005      | < 0.0005      | < 0.0005      | 0.0010        | < 0.0005       | < 0.0005       | < 0.0005     | < 0.0005     | < 0.0005     |
| Copper [mg/L]                     | 17-Sep-10                          | 11:26                              | 0.0166        | 0.0163        | 0.0015        | 0.0063        | 0.0061        | 0.0441        | 0.0077         | 0.0073         | 0.0017       | 0.0007       | 0.0010       |
| Iron [mg/L]                       | 16-Sep-10                          | 14:42                              | 0.389         | 0.241         | 0.120         | 0.180         | 0.111         | 0.089         | 0.067          | 0.151          | 0.018        | 0.068        | 0.075        |
| Potassium [mg/L]                  | 16-Sep-10                          | 14:42                              | 4.08          | 4.70          | 4.76          | 3.56          | 4.27          | 1.22          | 2.64           | 2.75           | 7.21         | 3.08         | 3.77         |
| Lithium [mg/L]                    | 17-Sep-10                          | 11:26                              | < 0.001       | < 0.001       | 0.003         | < 0.001       | < 0.001       | 0.001         | < 0.001        | < 0.001        | < 0.001      | < 0.001      | < 0.001      |

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# Shake Flask Leach (4:1 ratio)

LR Report :

CA10322-AUG10

| Analysis          | 3:<br>Analysis<br>Approval<br>Date | 4:<br>Analysis<br>Approval<br>Time | 5:<br>R350-01 | 6:<br>R350-02 | 7:<br>R350-03 | 8:<br>R350-04 | 9:<br>R359-01 | 10:<br>T43-04 | 11:<br>R359-02 | 12:<br>R359-03 | 13:<br>R2-01 | 14:<br>R2-02 | 15:<br>R2-03 |
|-------------------|------------------------------------|------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|--------------|--------------|--------------|
| Magnesium [mg/L]  | 16-Sep-10                          | 14:42                              | 0.392         | 0.558         | 1.44          | 0.349         | 0.473         | 1.38          | 0.594          | 0.556          | 0.458        | 0.923        | 0.534        |
| Manganese [mg/L]  | 17-Sep-10                          | 11:26                              | 0.00451       | 0.00449       | 0.00182       | 0.00235       | 0.00163       | 0.00283       | 0.00094        | 0.00186        | 0.00033      | 0.00104      | 0.00128      |
| Molybdenum [mg/L] | 17-Sep-10                          | 11:26                              | 0.00069       | 0.00073       | 0.00018       | 0.00038       | 0.00079       | 0.00708       | 0.00065        | 0.00019        | 0.00027      | 0.00018      | 0.00025      |
| Sodium [mg/L]     | 16-Sep-10                          | 14:42                              | 3.79          | 5.01          | 4.64          | 3.33          | 3.82          | 1.99          | 3.96           | 3.75           | 3.13         | 4.15         | 4.54         |
| Nickel [mg/L]     | 17-Sep-10                          | 11:26                              | 0.0013        | 0.0007        | 0.0007        | 0.0007        | 0.0005        | 0.0142        | 0.0003         | 0.0006         | 0.0002       | 0.0003       | 0.0003       |
| Lead [mg/L]       | 17-Sep-10                          | 11:26                              | 0.00016       | 0.00012       | 0.00004       | 0.00008       | 0.00003       | 0.00024       | 0.00003        | 0.00007        | < 0.00002    | 0.00002      | 0.00002      |
| Antimony [mg/L]   | 17-Sep-10                          | 11:26                              | 0.0006        | < 0.0002      | < 0.0002      | < 0.0002      | < 0.0002      | 0.0007        | < 0.0002       | < 0.0002       | 0.0002       | < 0.0002     | < 0.0002     |
| Selenium [mg/L]   | 17-Sep-10                          | 11:26                              | < 0.001       | < 0.001       | < 0.001       | < 0.001       | < 0.001       | < 0.001       | < 0.001        | < 0.001        | < 0.001      | < 0.001      | < 0.001      |
| Tin [mg/L]        | 17-Sep-10                          | 11:26                              | 0.00005       | 0.00006       | 0.00001       | 0.00002       | < 0.00001     | < 0.00001     | < 0.00001      | < 0.00001      | < 0.00001    | < 0.00001    | < 0.00001    |
| Strontium [mg/L]  | 16-Sep-10                          | 14:42                              | 0.0019        | 0.0059        | 0.0116        | 0.0020        | 0.0074        | 0.0187        | 0.0147         | 0.0056         | 0.0189       | 0.0141       | 0.0053       |
| Titanium [mg/L]   | 17-Sep-10                          | 11:26                              | 0.0176        | 0.0083        | 0.0035        | 0.0068        | 0.0041        | 0.0029        | 0.0020         | 0.0056         | 0.0003       | 0.0020       | 0.0022       |
| Thallium [mg/L]   | 17-Sep-10                          | 11:26                              | 0.00011       | 0.00007       | 0.00003       | < 0.00002     | < 0.00002     | < 0.00002     | < 0.00002      | < 0.00002      | < 0.00002    | < 0.00002    | < 0.00002    |
| Uranium [mg/L]    | 17-Sep-10                          | 11:26                              | 0.000214      | 0.000274      | 0.000041      | 0.000079      | 0.000132      | 0.000064      | 0.000155       | 0.000083       | 0.000039     | 0.000042     | 0.000050     |
| Vanadium [mg/L]   | 17-Sep-10                          | 11:26                              | 0.0140        | 0.0119        | 0.00619       | 0.0170        | 0.0179        | 0.0213        | 0.0154         | 0.0170         | 0.00901      | 0.0130       | 0.0183       |
| Tungsten [mg/L]   | 17-Sep-10                          | 11:26                              | 0.00028       | 0.00018       | 0.00004       | 0.00012       | 0.00019       | 0.01731       | 0.00016        | 0.00037        | 0.00022      | 0.00009      | 0.00012      |
| Yttrium [mg/L]    | 17-Sep-10                          | 11:26                              | 0.000184      | 0.000191      | 0.000041      | 0.000061      | 0.000035      | 0.000029      | 0.000021       | 0.000125       | 0.000005     | 0.000016     | 0.000026     |
| Zinc [mg/L]       | 17-Sep-10                          | 11:26                              | 0.002         | 0.001         | 0.001         | 0.002         | < 0.001       | 0.005         | 0.002          | 0.001          | 0.001        | < 0.001      | < 0.001      |

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Monday, October 25, 2010

**Date Rec. :** 07 October 2010

**LR Report:** CA11088-OCT10

**Reference:** Meliadine (Golder 10-1127-0101)

**Copy:** #1

# CERTIFICATE OF ANALYSIS

## Final Report

| Analysis           | 5:       | 6:       | 7:       | 8:       | 9:       | 10:      | 11:      | 12:      | 13:      | 14:      | 15:      | 16:      | 17:      | 18:      | 19:      |
|--------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                    | 10QUAR01 | 10QUAR02 | 10QUAR03 | 10QUAR04 | 10QUAR05 | 10QUAR06 | 10QUAR07 | 10QUAR08 | 10QUAR09 | 10QUAR10 | 10QUAR11 | 10QUAR12 | 10QUAR13 | 10QUAR14 | 10QUAR15 |
| Sample Date & Time |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| SiO2 [%]           | 64.0     | 65.8     | 63.4     | 66.1     | 65.2     | 65.9     | 64.7     | 67.8     | 65.3     | 64.6     | 65.7     | 63.8     | 66.2     | 65.6     | 64.9     |
| Al2O3 [%]          | 16.0     | 15.4     | 13.0     | 15.6     | 15.7     | 15.4     | 15.7     | 14.3     | 15.0     | 15.6     | 15.4     | 15.4     | 15.9     | 15.9     | 15.2     |
| Fe2O3 [%]          | 5.38     | 5.26     | 4.27     | 5.18     | 5.36     | 4.83     | 5.25     | 4.38     | 4.54     | 4.52     | 4.79     | 5.50     | 4.48     | 4.83     | 5.10     |
| MgO [%]            | 2.35     | 2.19     | 1.98     | 2.12     | 2.34     | 2.06     | 2.31     | 1.82     | 1.88     | 1.85     | 2.01     | 2.44     | 1.89     | 2.11     | 2.16     |
| CaO [%]            | 2.41     | 2.72     | 6.30     | 2.53     | 2.97     | 2.68     | 3.10     | 2.42     | 2.29     | 2.12     | 2.40     | 2.51     | 2.24     | 2.46     | 3.18     |
| Na2O [%]           | 3.97     | 3.91     | 3.16     | 4.06     | 4.00     | 4.05     | 4.03     | 3.75     | 4.05     | 4.18     | 4.04     | 3.79     | 4.26     | 4.17     | 3.92     |
| K2O [%]            | 2.00     | 1.94     | 1.98     | 1.93     | 1.92     | 2.00     | 2.02     | 1.87     | 1.91     | 1.94     | 1.97     | 1.95     | 2.01     | 2.09     | 1.94     |
| TiO2 [%]           | 0.56     | 0.55     | 0.49     | 0.53     | 0.55     | 0.52     | 0.53     | 0.46     | 0.51     | 0.48     | 0.49     | 0.58     | 0.49     | 0.50     | 0.52     |
| P2O5 [%]           | 0.14     | 0.13     | 0.17     | 0.14     | 0.16     | 0.15     | 0.16     | 0.16     | 0.15     | 0.14     | 0.14     | 0.19     | 0.14     | 0.17     | 0.17     |
| MnO [%]            | 0.08     | 0.07     | 0.06     | 0.06     | 0.06     | 0.07     | 0.08     | 0.06     | 0.07     | 0.06     | 0.06     | 0.15     | 0.05     | 0.07     | 0.07     |
| Cr2O3 [%]          | 0.04     | 0.02     | 0.02     | 0.03     | 0.02     | 0.03     | 0.04     | 0.02     | 0.02     | 0.03     | 0.03     | 0.03     | 0.04     | 0.03     | 0.02     |
| V2O5 [%]           | < 0.01   | 0.01     | 0.02     | 0.02     | 0.02     | 0.02     | 0.01     | 0.01     | 0.02     | 0.01     | 0.02     | 0.02     | 0.02     | 0.02     | 0.02     |
| LOI [%]            | 2.89     | 1.69     | 4.81     | 1.55     | 1.62     | 1.86     | 1.90     | 2.29     | 3.57     | 3.70     | 2.20     | 3.32     | 2.14     | 1.76     | 2.08     |
| Sum [%]            | 99.8     | 99.7     | 99.6     | 99.8     | 99.9     | 99.6     | 99.8     | 99.3     | 99.3     | 99.1     | 99.2     | 99.7     | 99.8     | 99.8     | 99.3     |



**SGS Canada Inc.**

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report :

**CA11088-OCT10**

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*Brian Graham B.Sc.*

*Project Specialist*

*Environmental Services, Analytical*



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## Agnico-Eagle Mines Limited

Attn : Larry Connell

145 King Street East, Suite 400, Toronto  
, M5C 2Y7

Phone: 416-947-1212, Fax:416-367-4681

Shake Flask Leach (4:1 ratio)

Friday, October 29, 2010

Date Rec. : 07 October 2010

LR Report: CA11090-OCT10

Reference: Meliadine (Golder 10-1127-0101)

Copy: #1

# CERTIFICATE OF ANALYSIS

## Final Report

| Analysis                          | 12:<br>10QUAR08 | 13:<br>10QUAR09 | 14:<br>10QUAR10 | 15:<br>10QUAR11 | 16:<br>10QUAR12 | 17:<br>10QUAR13 | 18:<br>10QUAR14 | 19:<br>10QUAR15 |
|-----------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Sample Date & Time                |                 |                 |                 |                 |                 |                 |                 |                 |
| Sample [weight(g)]                | 200             | 200             | 200             | 200             | 200             | 200             | 200             | 200             |
| Volume mL [D.I. H <sub>2</sub> O] | 800             | 800             | 800             | 800             | 800             | 800             | 800             | 800             |
| Initial pH [units]                | 5.9             | 5.5             | 4.9             | 6.1             | 6.0             | 5.0             | 6.3             | 8.4             |
| Final pH [units]                  | 6.19            | 5.91            | 5.62            | 6.52            | 6.35            | 5.57            | 6.83            | 8.59            |
| Silver [mg/L]                     | 0.00003         | 0.00005         | 0.00004         | 0.00004         | 0.00004         | 0.00002         | 0.00002         | 0.00002         |
| Aluminum [mg/L]                   | 1.18            | 1.41            | 1.61            | 1.01            | 1.60            | 1.93            | 1.41            | 0.79            |
| Arsenic [mg/L]                    | 0.0021          | 0.0022          | 0.0039          | 0.0023          | 0.0025          | 0.0023          | 0.0037          | 0.0167          |
| Boron [mg/L]                      | 0.136           | 0.223           | 0.245           | 0.127           | 0.148           | 0.237           | 0.109           | 0.0703          |
| Beryllium [mg/L]                  | 0.00003         | 0.00004         | 0.00004         | 0.00003         | 0.00004         | 0.00004         | 0.00004         | 0.00002         |
| Bismuth [mg/L]                    | 0.00002         | 0.00004         | 0.00002         | 0.00002         | 0.00008         | 0.00004         | 0.00002         | 0.00003         |
| Calcium [mg/L]                    | 1.12            | 4.47            | 1.04            | 6.18            | 4.67            | 0.59            | 3.37            | 12.6            |
| Cadmium [mg/L]                    | 0.000019        | 0.000035        | 0.000026        | 0.000021        | 0.000082        | 0.000020        | 0.000014        | 0.000012        |
| Cobalt [mg/L]                     | 0.00268         | 0.00477         | 0.00439         | 0.00314         | 0.0249          | 0.00183         | 0.00255         | 0.00184         |
| Chromium [mg/L]                   | 0.0016          | 0.0021          | 0.0031          | 0.0013          | 0.0027          | 0.0027          | 0.0017          | 0.0008          |
| Copper [mg/L]                     | 0.0168          | 0.0138          | 0.0170          | 0.0129          | 0.0211          | 0.0085          | 0.0118          | 0.0300          |
| Iron [mg/L]                       | 1.18            | 1.43            | 1.54            | 1.19            | 1.69            | 1.56            | 1.53            | 1.34            |
| Potassium [mg/L]                  | 1.01            | 2.32            | 2.13            | 2.66            | 3.66            | 1.40            | 2.99            | 4.51            |
| Lithium [mg/L]                    | 0.002           | 0.004           | 0.007           | 0.002           | 0.003           | 0.009           | 0.002           | 0.003           |



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Shake Flask Leach (4:1 ratio)

LR Report :

CA11090-OCT10

| Analysis          | 12:<br>10QUAR08 | 13:<br>10QUAR09 | 14:<br>10QUAR10 | 15:<br>10QUAR11 | 16:<br>10QUAR12 | 17:<br>10QUAR13 | 18:<br>10QUAR14 | 19:<br>10QUAR15 |
|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Magnesium [mg/L]  | 0.428           | 1.44            | 0.389           | 2.26            | 1.58            | 0.394           | 1.10            | 1.13            |
| Manganese [mg/L]  | 0.0350          | 0.126           | 0.0415          | 0.0792          | 0.498           | 0.0269          | 0.0716          | 0.0197          |
| Molybdenum [mg/L] | 0.00027         | 0.00023         | 0.00026         | 0.00035         | 0.00237         | 0.00031         | 0.00046         | 0.00078         |
| Sodium [mg/L]     | 4.80            | 7.32            | 8.11            | 6.69            | 7.89            | 5.76            | 6.06            | 6.39            |
| Nickel [mg/L]     | 0.0046          | 0.0054          | 0.0067          | 0.0097          | 0.0377          | 0.0031          | 0.0053          | 0.0053          |
| Lead [mg/L]       | 0.00115         | 0.00111         | 0.00173         | 0.00125         | 0.00156         | 0.00163         | 0.00170         | 0.00188         |
| Antimony [mg/L]   | 0.0004          | 0.0004          | 0.0004          | 0.0004          | 0.0005          | 0.0005          | 0.0004          | 0.0005          |
| Selenium [mg/L]   | < 0.001         | < 0.001         | < 0.001         | < 0.001         | < 0.001         | < 0.001         | < 0.001         | < 0.001         |
| Tin [mg/L]        | < 0.00001       | 0.00002         | 0.00084         | 0.00001         | 0.00001         | 0.00001         | 0.00022         | < 0.00001       |
| Strontium [mg/L]  | 0.0181          | 0.0414          | 0.0201          | 0.0537          | 0.0417          | 0.0172          | 0.0340          | 0.0713          |
| Titanium [mg/L]   | 0.0307          | 0.0451          | 0.0488          | 0.0304          | 0.0469          | 0.0550          | 0.0328          | 0.0254          |
| Thallium [mg/L]   | < 0.00002       | < 0.00002       | < 0.00002       | 0.00003         | 0.00003         | < 0.00002       | < 0.00002       | < 0.00002       |
| Uranium [mg/L]    | 0.000223        | 0.000292        | 0.000247        | 0.000176        | 0.000243        | 0.000163        | 0.000159        | 0.000313        |
| Vanadium [mg/L]   | 0.00264         | 0.00301         | 0.00341         | 0.00268         | 0.00377         | 0.00455         | 0.00421         | 0.00809         |
| Tungsten [mg/L]   | 0.00008         | 0.00014         | 0.00019         | 0.00012         | 0.00014         | 0.00019         | 0.00013         | 0.00035         |
| Yttrium [mg/L]    | 0.00118         | 0.00142         | 0.000907        | 0.000963        | 0.000991        | 0.000628        | 0.000854        | 0.000693        |
| Zinc [mg/L]       | 0.085           | 0.247           | 0.256           | 0.056           | 0.133           | 0.226           | 0.037           | 0.013           |

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Shake Flask Leach (4:1 ratio)

Friday, October 29, 2010

Date Rec. : 07 October 2010

LR Report: CA11090-OCT10

Reference: Meliadine (Golder 10-1127-0101)

Copy: #1

# CERTIFICATE OF ANALYSIS

## Final Report

| Analysis             | 3:<br>Analysis<br>Approval<br>Date | 4:<br>Analysis<br>Approval<br>Time | 5:<br>10QUAR01 | 6:<br>10QUAR02 | 7:<br>10QUAR03 | 8:<br>10QUAR04 | 9:<br>10QUAR05 | 10:<br>10QUAR06 | 11:<br>10QUAR07 |
|----------------------|------------------------------------|------------------------------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|
| Sample Date & Time   |                                    |                                    |                |                |                |                |                |                 |                 |
| Sample [weight(g)]   | 22-Oct-10                          | 08:32                              | 200            | 200            | 200            | 200            | 200            | 200             | 200             |
| Volume mL [D.I. H2O] | 22-Oct-10                          | 08:32                              | 800            | 800            | 800            | 800            | 800            | 800             | 800             |
| InitialpH [units]    | 22-Oct-10                          | 08:32                              | 5.4            | 6.2            | 8.4            | 7.2            | 8.4            | 5.8             | 6.6             |
| Final pH [units]     | 22-Oct-10                          | 08:32                              | 5.74           | 6.87           | 8.65           | 7.95           | 8.82           | 6.59            | 7.53            |
| Silver [mg/L]        | 29-Oct-10                          | 08:57                              | 0.00005        | 0.00001        | 0.00002        | 0.00001        | < 0.00001      | 0.00002         | 0.00002         |
| Aluminum [mg/L]      | 28-Oct-10                          | 13:10                              | 1.61           | 0.85           | 0.48           | 0.82           | 0.87           | 1.02            | 1.45            |
| Arsenic [mg/L]       | 29-Oct-10                          | 08:57                              | 0.0030         | 0.0013         | 0.0066         | 0.0027         | 0.0073         | 0.0023          | 0.0034          |
| Boron [mg/L]         | 29-Oct-10                          | 08:57                              | 0.252          | 0.0963         | 0.0872         | 0.0776         | 0.0449         | 0.115           | 0.0780          |
| Beryllium [mg/L]     | 29-Oct-10                          | 08:57                              | 0.00005        | 0.00002        | < 0.00002      | < 0.00002      | < 0.00002      | 0.00002         | 0.00002         |
| Bismuth [mg/L]       | 29-Oct-10                          | 08:57                              | 0.00003        | 0.00001        | < 0.00001      | 0.00001        | < 0.00001      | 0.00002         | 0.00002         |
| Calcium [mg/L]       | 28-Oct-10                          | 13:10                              | 1.57           | 1.58           | 26.5           | 7.28           | 7.45           | 2.09            | 5.92            |
| Cadmium [mg/L]       | 29-Oct-10                          | 08:58                              | 0.000060       | 0.000014       | 0.000006       | 0.000004       | 0.000004       | 0.000011        | 0.000020        |
| Cobalt [mg/L]        | 29-Oct-10                          | 08:58                              | 0.00679        | 0.00266        | 0.00050        | 0.00324        | 0.00115        | 0.00147         | 0.00465         |
| Chromium [mg/L]      | 29-Oct-10                          | 08:58                              | 0.0040         | 0.0017         | 0.0006         | 0.0007         | < 0.0005       | 0.0015          | 0.0019          |
| Copper [mg/L]        | 29-Oct-10                          | 08:58                              | 0.0208         | 0.0096         | 0.0278         | 0.0101         | 0.0099         | 0.0102          | 0.0205          |
| Iron [mg/L]          | 28-Oct-10                          | 13:10                              | 1.64           | 0.964          | 0.344          | 1.01           | 0.453          | 1.01            | 1.28            |
| Potassium [mg/L]     | 28-Oct-10                          | 13:10                              | 1.65           | 1.27           | 1.20           | 3.64           | 4.96           | 2.43            | 3.77            |
| Lithium [mg/L]       | 29-Oct-10                          | 08:58                              | 0.006          | 0.002          | 0.003          | 0.001          | 0.001          | 0.003           | 0.002           |



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|-------------------|------------------------------------|------------------------------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|
| Magnesium [mg/L]  | 28-Oct-10                          | 13:10                              | 0.836          | 0.628          | 0.877          | 1.50           | 0.966          | 1.13            | 1.30            |
| Manganese [mg/L]  | 29-Oct-10                          | 08:58                              | 0.0557         | 0.0424         | 0.00488        | 0.0448         | 0.0159         | 0.0526          | 0.0751          |
| Molybdenum [mg/L] | 29-Oct-10                          | 08:58                              | 0.00016        | 0.00020        | 0.00059        | 0.00064        | 0.00029        | 0.00031         | 0.00157         |
| Sodium [mg/L]     | 28-Oct-10                          | 13:10                              | 7.19           | 5.15           | 4.57           | 5.13           | 5.43           | 5.25            | 6.67            |
| Nickel [mg/L]     | 29-Oct-10                          | 08:58                              | 0.0768         | 0.0195         | 0.0089         | 0.0043         | 0.0021         | 0.0046          | 0.0253          |
| Lead [mg/L]       | 29-Oct-10                          | 08:58                              | 0.00106        | 0.00097        | 0.00022        | 0.00100        | 0.00086        | 0.00066         | 0.00136         |
| Antimony [mg/L]   | 29-Oct-10                          | 08:58                              | 0.0006         | 0.0003         | 0.0005         | 0.0003         | 0.0004         | 0.0004          | 0.0004          |
| Selenium [mg/L]   | 29-Oct-10                          | 08:58                              | < 0.001        | < 0.001        | < 0.001        | < 0.001        | < 0.001        | < 0.001         | < 0.001         |
| Tin [mg/L]        | 29-Oct-10                          | 08:58                              | 0.00003        | 0.00003        | 0.00002        | < 0.00001      | 0.00005        | < 0.00001       | 0.00012         |
| Strontium [mg/L]  | 28-Oct-10                          | 13:10                              | 0.0240         | 0.0224         | 0.156          | 0.0453         | 0.0367         | 0.0254          | 0.0400          |
| Titanium [mg/L]   | 29-Oct-10                          | 08:58                              | 0.0461         | 0.0196         | 0.0225         | 0.0137         | 0.0068         | 0.0256          | 0.0337          |
| Thallium [mg/L]   | 29-Oct-10                          | 08:58                              | 0.00004        | < 0.00002      | < 0.00002      | < 0.00002      | < 0.00002      | < 0.00002       | < 0.00002       |
| Uranium [mg/L]    | 29-Oct-10                          | 08:58                              | 0.000392       | 0.000116       | 0.000227       | 0.000199       | 0.000386       | 0.000119        | 0.000148        |
| Vanadium [mg/L]   | 29-Oct-10                          | 08:58                              | 0.00371        | 0.00263        | 0.00537        | 0.00273        | 0.00213        | 0.00285         | 0.00369         |
| Tungsten [mg/L]   | 29-Oct-10                          | 08:58                              | 0.00023        | 0.00008        | 0.00019        | 0.00011        | 0.00008        | 0.00009         | 0.00025         |
| Yttrium [mg/L]    | 29-Oct-10                          | 08:58                              | 0.00221        | 0.000854       | 0.000938       | 0.000919       | 0.000416       | 0.000695        | 0.00109         |
| Zinc [mg/L]       | 29-Oct-10                          | 08:58                              | 0.191          | 0.020          | 0.008          | 0.008          | 0.007          | 0.049           | 0.022           |

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At Golder Associates we strive to be the most respected global group of companies specializing in ground engineering and environmental services. Employee owned since our formation in 1960, we have created a unique culture with pride in ownership, resulting in long-term organizational stability. Golder professionals take the time to build an understanding of client needs and of the specific environments in which they operate. We continue to expand our technical capabilities and have experienced steady growth with employees now operating from offices located throughout Africa, Asia, Australasia, Europe, North America and South America.

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| North America | + 1 800 275 3281  |
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