



Static Geochemical Testing Baseline Report (Rev 2)

Springpole Gold Project
First Mining Gold Corp.

ONS2104

Prepared by:
WSP Canada Inc.

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Static Geochemical Testing Baseline Report (Rev 2) Springpole Gold Project

Red Lake District, Northwest Ontario
Project #ONS2104

Prepared for:

First Mining Gold Corp.
Suite 2070, 1188 West Georgia Street
Vancouver, British Columbia, V6E 4A2

Prepared by:

WSP Canada Inc.
6925 Century Avenue, Suite 600
Mississauga, Ontario, L5N 7K2
Canada
T: (905) 567-4444

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EXECUTIVE SUMMARY

First Mining Gold Corp. (FMG) proposes to develop an open pit mine and with supporting facilities known as the Springpole Gold Project (SGP, or the Project). The Project is located in a remote area of northwestern Ontario, approximately 110 kilometres (km) northeast of the Municipality of Red Lake and 145 km north of the Municipality of Sioux Lookout (Figure 1-1).

Baseline static geochemical testing is required to support mine planning, mine rock management decisions and permitting for the Project. This report documents the study approach, methods, and results of the static geochemical testing of rock at the Project.

The baseline static geochemical characterization program included samples collected by WSP (formerly Wood) along with baseline static geochemical data collected by others as part of previous programs for the Project (e.g., MDAG 2012 and KCC 2020). The geochemical dataset presented in this report includes a total of 876 samples and covers the range of identified lithologies and geologic zones at the Project and included mine rock (716 samples) and ore-grade materials (160 samples). Samples were tested at the laboratory for acid base accounting (ABA) parameters, elemental content, and metal leaching capability. Screening of the data was completed to assess the potential for neutral and acidic metal leaching in the future. For project planning purposes, ABA results with a ratio of neutralization potential to acid potential (NPR) <2 were assumed to be potentially acid generating (PAG) in accordance with industry-standard guidance.

Based on the results of this study, major rock units expected to be encountered by future mine development were sulphide-bearing (often >1% sulphur), with ore-bearing material generally having a higher sulphide content (>3% sulphur). Samples from the Portage Zone generally had higher sulphur contents (median 1.5% sulphur) than samples from the East Extension Zone (median 0.7% sulphur) and Camp Zone (median 0.5% sulphur). No strong patterns were apparent in sulphur content among different rock types. Pyrite was the most commonly observed sulphide mineral.

The neutralization potential (NP) content of the samples was variable, ranging from -1 to approximately 500 kg CaCO₃/t, and the samples formed two distinct groups based on their neutralization potential content. One group of samples had a low neutralization potential (averaging 10 kg CaCO₃/t, ranging from -1 to 20 kg CaCO₃/t) and the other group of samples had a higher neutralization potential content (approximately 200 kg CaCO₃/t, ranging from approximately 50 kg CaCO₃/t to 500 kg CaCO₃/t). The low neutralization potential group of samples were exclusively from the Portage Zone, whereas the higher neutralization potential group of samples included samples from the Portage Zone, the East Extension Zone, and the Camp Zone.

Carbonate neutralization potential (CarbNP) was typically similar to or slightly lower than the neutralization potential content for samples with a higher NP content (e.g., NP >50 kg CaCO₃/t) indicating that neutralization potential was present as carbonate minerals in these samples; and calcite and dolomite were identified in mineralogical testing.

The samples with a lower NP content (e.g., NP <20 kg CaCO₃/t) generally had low levels of carbonate neutralization potential (<10 kg CaCO₃/t), suggesting that non-carbonate minerals comprised a higher proportion of the NP in these samples. Based on currently available information, some samples with low levels of carbonate NP may contain reactive non-carbonate NP (e.g., feldspars). A subset of samples with a low NP content had notably elevated levels of carbonate NP, suggesting that these samples may contain non-net neutralizing carbonate minerals (e.g., siderite).

Overall, geospatial factors governing the NP content of the rock from the various zones is not currently well understood. At present it is hypothesized that the low NP rock from the Portage Zone is associated with the porphyry style mineralization and related advanced argillic and potassic alteration unique to this Zone, with the higher NP rock from the Portage, East Extension and Camp Zones associated with the lode gold / epithermal gold vein style mineralization in these zones.

The Acid Base Accounting (ABA) results were screened to assess the potential for acidic drainage in the future. On the order of 46% of the mine rock samples and 85% of the ore-grade samples from the Portage Zone, which represents the most volumetrically significant zone of the open pit, were classified as PAG. In the East Extension and

Camp Zones, approximately 85% of the mine rock and approximately 70% of the ore-grade material was classified as non-acid generating (NAG), owing to the generally higher neutralization potential and relatively lower sulphur content of rock from these zones.

The elemental content of the mine rock samples was qualitatively evaluated against average elemental crustal compositions (Price 1997). For screening purposes, samples with more than 10 times the average crustal abundance for a given element were considered to be enriched in that element. This approach provides an indication of the minor and trace element characteristics of the rock but does not provide a direct assessment of metal leaching potential.

Elemental content analysis indicated that 70% of the mine rock samples and 80% of the ore-grade samples were enriched in arsenic relative to screening values. In general, arsenic concentrations were higher in samples from the East Extension Zone and Camp Zone compared to the Portage Zone. Overall, arsenic concentrations were not notably elevated in either the mine rock or ore samples, with median concentrations on the order of 30 to 40 mg/kg, and concentrations of arsenic of up to 1,200 mg/kg for the mine rock samples and 450 mg/kg in ore. Comparison of arsenic to sulphur molar ratios indicated that the arsenic content of the samples was notably lower than the sulphur content for nearly all of the samples. This suggests that arsenopyrite (FeAsS) is not a significant sulphide in the samples, and arsenic may be present in other sulphide minerals (e.g., substituted in pyrite). This is consistent with mineralogical testwork results and geological observations for the Project, whereby pyrite is identified as the only sulphide mineral present in the rock.

Concentrations of other metals including selenium, molybdenum, silver, and antimony were greater than the respective screening values for these elements in approximately 30% of mine rock samples and 40 to 80% of ore-grade samples. Some samples (approximately 10% of mine rock and 15% of ore-grade materials) showed enrichment in lead and cadmium, and there were isolated occurrences (<5% of the samples) of enrichment of boron, copper, mercury, tungsten, chromium, thallium, uranium, and zinc.

Shake flask extraction (SFE) leachate results indicated that arsenic may be a parameter of potential interest under short term neutral leaching conditions for both mine rock and ore, with approximately 40% of the samples being higher than the interim Ontario Provincial Water Quality Objectives (PWQO) value for arsenic when compared for screening purposes. Few samples (<10%) of mine rock or ore had arsenic concentrations greater than the in place PWQO value. Cobalt concentrations in SFE leachates were above the PWQO screening value in 50% of ore-grade samples, but only 10% of mine rock samples. Several other metals including antimony, copper, cadmium, and lead have concentrations greater than their respective PWQO screening values in the SFE leachates for approximately 10-30% of the samples. It is recognized that short term leaching tests such as SFE do not directly represent mine drainage quality and comparisons with screening values hold no regulatory significance.

Net acid generation leachate results for mine rock samples indicated that aluminum, cadmium, chromium, cobalt, copper, iron, lead, nickel, silver, thallium, uranium, vanadium, and zinc may be of potential interest under acidic leaching conditions.

Kinetic testing provides additional understanding of the future acid generation and metal leaching potential of mine rock and ore at the Springpole Gold Project (WSP 2024).

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LIST OF ABBREVIATIONS

AND_TUFF_MSED	Andesite, Tuff and Metasediments
AP	acidity potential
CaCO ₃	calcium carbonate
CarbNP	carbonate neutralization potential
Carb NPR	carbonate neutralization potential ratio
KCC	KCC Geoconsulting
kg	kilogram
kg CaCO ₃ /t	kilograms calcium carbonate per tonne
km	kilometre
LAM	Lamprophyre
MDAG	Minesite Drainage Assessment Group
mg/kg	milligrams per kilogram
mg/L	milligrams per litre
mL	millilitre
ML/ARD	metal leaching and acid rock drainage
mmol/kg/week	millimoles per kilogram per week
NAG	non-acid generating
NAG pH	Net Acid Generation test pH
NAG Leachate	Net Acid Generation test leachate
NP	neutralization potential
NPR	neutralization potential ratio
PAG	potentially acid generating
POR	Porphyry
TRA	Trachyte
VBX	Volcanic Breccia
Wood	Wood Environment & Infrastructure Americas
WSP	WSP Canada Inc.
wt%	weight percent
%	percent

1.0 INTRODUCTION

First Mining Gold Corp. (FMG) proposes to develop, operate and eventually decommission / close an open pit mine and ore process plant with supporting facilities known as the Springpole Gold Project (SGP, or the Project). The Project is located in a remote area of northwestern Ontario, approximately 110 kilometres (km) northeast of the Municipality of Red Lake and 145 km north of the Municipality of Sioux Lookout (Figure 1-1).

1.1 This document is one of a series of baseline reports prepared by WSP (formerly Wood Environment & Infrastructure Americas, a division of Wood Canada Limited) on behalf of FMG to describe the current environmental conditions and update existing information. Background

This report has been prepared to describe the geochemistry of the rock likely to be encountered during future mine development at the Project. Specifically, this report documents the approach, methods, and results of the static geochemical testing program to assess the metal leaching and acid rock drainage (ML/ARD) potential of rock at the Project. It is recommended that this report be read in conjunction with the baseline kinetic report (WSP 2024).

For the purposes of this assessment, rock at the Project has been classified into two groups.

- **Ore-grade materials** - Rock with potentially economic gold content. For the purposes of this assessment, ore-grade materials were assumed to contain 0.4 grams of gold per tonne (g/t Au) or greater, based on discussions with Project geologists.
- **Mine Rock** - All mine rock excluding ore-grade material and including future exposed rock surfaces.

Other rock sources associated with the Project including rock from the fish habitat development area are discussed under a separate cover.

1.2 Scope of Work

The geochemical characterization work being completed includes the following scope:

- Analysis and interpretation of data from existing geological and geochemical characterization studies.
- Execution of a metal leaching and acid rock drainage (ML/ARD) characterization program, including static and kinetic testing, to evaluate the geochemical characteristics of ore-grade material, future stockpiled mine rock and exposed mine rock surfaces for the Project.

1.3 Ongoing Geochemical Studies

Geochemical investigations for the Project are currently ongoing and this report documents the results of the static testing program undertaken by WSP up to November 2021, along with the results of static testing programs previously conducted for the Project.

A kinetic testing program is currently ongoing in support of the Project and is documented in WSP 2024a.

Figure 1-1: Springpole Gold Project Location

2.0 GEOLOGY

2.1 Deposit Geology and Gold Mineralization

The geology of the Springpole deposit is described in detail in SRK (2012), FMG (2017), and AGP (2021). Key information from these reports is provided below.

The SGP property is underlain by a sequence of altered and metamorphosed mafic to intermediate volcanic rocks and associated volcanoclastics, derived siliciclastic sedimentary rocks, chemical sediments (including banded iron formation) and coarse pebble conglomerates (Timiskaming polymictic conglomerates). The sequence is complexly folded, sheared and faulted and form the host rocks into which the polyphase alkali suite of rocks that form the core of the deposit has intruded. The intrusion is a polyphase alkali trachyte intrusion with autolithic breccia, understood to be part of a larger syenite intrusive stock. Early intrusive phases consist of medium to coarse grained megacrystic albite and orthoclase feldspar phenocrysts in an aphanitic groundmass. Successive phases show progressively finer-grained porphyritic textures, while final intrusive phases are aphanitic. Feldspar porphyry diatreme dikes and dikelets transect mafic to intermediate basement lithologies throughout the property; generally fine grained with orthoclase feldspar phenocrysts and locally abundant exotic fragments.

The property hosts two types of mineralization, including porphyry style gold mineralization and lode gold mineralization. Mineralization is present in three geologic zones including the Portage Zone, the East Extension Zone, and the Camp Zone. Mineralization is understood to be a result of the emplacement of multiple phases of trachyte porphyry and associated diatreme breccias, hydrothermal breccias, dikes and sills. Gold may have also been remobilized during subsequent metamorphic events.

Porphyry-style mineralization includes disseminated gold-silver mineralization hosted by the main intrusive complex. Mineralization of this style is observed in the Portage Zone and portions of the East Extension zone, where gold mineralization is hosted by diatreme breccias and aphanitic trachytes. Blocks of mineralized rock have also been structurally redistributed via shearing and faulting. Alteration zones are difficult to define due to complex sheared geometry and poorly defined contact zones of the deposit. However, potassic and phyllic/sericitic alteration is nearly pervasive in the alkali intrusive rocks, with intense potassic alteration in some zones with complete replacement of the rock mass with pyrite and biotite. Advanced argillic alteration is understood to occur throughout the porphyry intrusive and in some late-stage lamprophyre dykes and appears to define an envelope around the potassic alteration zones. Overall pyrite is the most common sulphide mineral observed with the disseminated gold-silver mineralization.

Mesothermal lode gold to epithermal style vein gold mineralization is also present. Mesothermal style quartz-biotite-calcite-sulphide gold-bearing veins are present in the porphyry intrusive in the Portage Zone, and at the contact between the intrusive and wall rock in the East Extension Zone and localized within the Camp Zone. Farther from the intrusive complex and wall rock contact zones, epithermal style vein textures and mineralization dominate including quartz-calcite veins, sericite, +/- biotite, orthoclase/adularia, calcite, dolomite, ankerite, with gold present as electrum and gold-silver tellurides. Pyrite is the most common sulphide mineral observed with vein style gold mineralization and typically other sulphide minerals are not present.

2.2 Lithological Interpretation

Project geologic information has been subdivided into various key lithology groups. The various lithological subdivisions may be important in terms of ML/ARD assessment. Therefore, for planning purposes, sampling and interpretation has focused on mine rock subdivisions based on primary logged lithologies. In addition to the logged lithologies, the various geologic Zones of the deposit (e.g., Portage, East Extension and Camp Zones) were considered separately, owing to their apparently unique geological characteristics which may be important for the Project ML/ARD assessment. Lithologies and their associated rock codes are provided in Table 2-1.

Major lithologies which comprise mine rock at the Project include:

- Andesite, Tuff, and Metasediments (AND_TUFF_MSEDS);
- Trachyte (TRA);

- Volcanic Breccia (VBX); and
- Porphyry (POR).

Ore-grade materials are most often associated with the following lithologies:

- Trachyte (TRA);
- Volcanic Breccia (VBX);
- Andesite, Tuff, and Metasediments (AND_TUFF_MSEDS); and
- Porphyry (POR).

Table 2–1: Lithology Groups

Lithology Group	Lithology Code	Rock Types
Andesite, Tuff, and Metasediments	AND_TUFF_MSED	Andesite
		Metasediment
		Tuff
		Iron Formation
		Quartz Porphyry Dyke
		Conglomerate
Trachyte	TRA	Trachyte
Volcanic Breccia	VBX	Volcanic Breccia
Porphyry	POR	Porphyry
Lamprophyre	LAM	Lamprophyre Dyke

3.0 STATIC TESTING PROGRAM

The study approach and rationale for the static geochemistry testing program are described below. Detailed information on analytical methods is provided in Appendix A.

3.1 Objectives and Approach

The overall goal of the ML/ARD program is to establish the necessary data to support mine planning, mine rock management decisions, and obtaining environmental approvals for the Project. The static geochemistry assessment covered the range of lithological groups at the Project and included mine rock and ore-grade materials. The overall objectives of the program included:

- Obtaining samples that accurately represent the geochemical variation of the mine rock lithology types to be mined; and
- Capturing both the spatial and geochemical variability of mine rock and ore-grade materials in the vicinity of the proposed development.

3.2 Regulatory Context

The approach and methodology for the program and data interpretation used in this report were based on the requirements described under the Ontario Mining Act; namely guidance found within *Prediction Manual for Drainage Chemistry from Sulphidic Geologic Materials* (MEND 2009), which represents best practice and industry standard approaches and methodologies for ML/ARD sampling and characterization in Canada.

3.3 ML/ARD Data Included in Geochemistry Baseline

Several geochemistry studies have been conducted for the Project including the Minesite Drainage Assessment Group (MDAG 2012) and KCC Geoconsulting (KCC 2020). As shown in Table 3-1, the baseline static geochemistry data presented herein includes data obtained from previous programs and recent studies conducted by WSP, including 253 samples collected by WSP in 2021, and 623 samples collected as part of previous programs (MDAG 2012; KCC 2020). Data from all programs have been synthesized into one combined dataset (n=876 samples) and are presented in this report. Collar locations for drill holes sampled in this combined dataset are shown in Figure 3-1. Cross sections showing sample locations are appended in Appendix D.

Initial geochemical testing undertaken by MDAG (2012) included analysis of 184 rock samples collected from archived drill core. Static testing was conducted including Acid Base Accounting (ABA) and elemental content analysis. Geochemical studies undertaken by KCC (2020) included analysis of 444 rock samples collected from archived drill core and pulp rejects. The samples represented rock materials from within the open pit volume. Further details of the sample selection process for previous studies are provided in KCC (2020) and MDAG (2012). Static testing including ABA and elemental content was conducted for all samples. Several samples (n=10) were tested by additional static methods including Shake Flask Extraction (SFE) testing, net acid generating testing, and mineralogical analysis by Rietveld X-Ray Diffraction (R-XRD). Geochemical studies conducted by WSP included analysis of 253 samples for ABA and elemental content, along with 99 samples by SFE testing, 75 samples by net acid generating testing, and 15 samples by R-XRD.

This report focuses on rock samples collected during previous and current baseline programs. Static testing results for metallurgical tailings representative of the current mine plan are provided in WSP 2024b.

Owing to the historical nature of the previous studies, data from previous programs were integrated into WSP's baseline geochemical database from available laboratory certificates of analysis. Historical rock codes were updated to align with the current Project lithologic interpretation, based on information provided by FMG. Mine rock and ore-grade materials were reclassified as required, to align with current mine plan information. Analytical methods were reviewed to ensure consistency between the various programs, so results were directly comparable. The compilation of ML/ARD test results were reviewed and presented in aggregate as one combined dataset to support the geochemistry baseline presented in this report.

3.4 2021 Sample Selection and Collection

To build upon the baseline ML/ARD data collected as part of previous studies, WSP developed a sampling program to collect additional drill core samples from recent drill core archived at the Project site. WSP developed a target sample list based on review of geologic information including cross sections, borehole logs and geochemical data provided by FMG. The program was designed to capture spatial and geochemical variability in mine rock in the region of the proposed development and supplement the currently available static testing data for the Project from previous studies. An overview of the samples collected by WSP along with samples from previous studies is provided in Table 3-1. A summary of the sample selection process for WSP's samples is presented below.

- Samples were selected from recent, available archived drill core. Available core was identified by FMG. Approximately 40% of the samples were from drill core obtained in the last two years. The remaining samples were from drill core obtained between 2011 and 2016 due to core availability.
- Samples were selected to cover a range of lithologies, sulphur content, and alteration types. Samples were selected from the Portage Zone, East Extension Zone, and Camp Zone based on available drill core at the time of sampling. Higher sample densities were targeted for major lithologies.
- Samples were differentiated between ore and mine rock based on a cutoff grade of 0.4 g/t Au. The selection of ore-grade samples was not exhaustive and was included for completeness to extend interpretation of the overall ML/ARD data.
- Each drill core sample typically comprised an approximate 1 to 2 meters (m) sample interval. Individual samples were generally selected at 50 m spacing from a range of drillholes for each Zone of the open pit. In some Zones, where the density of available core was low, samples were collected at a higher frequency to ensure sufficient samples were available for ML/ARD testing.

WSP personnel collected 253 samples of drill core from the Project in June 2021, which were packaged and shipped to Global ARD, Burnaby, British Columbia for analysis. A summary of the collected samples and analyses is provided in Table 3-1.

3.5 Analytical Methods

An overview of static test methods used for ML/ARD testing and the purpose of each test is discussed below. Further details on these methods are presented in Appendix A. As previously discussed, samples collected by WSP were analyzed at Global ARD, Burnaby, British Columbia.

It is noted that data generated as part of previous studies, which is also included in the geochemical dataset presented in this report, used the same methods as described below, with the exception of 182 samples analyzed for elemental content by four-acid digest (MDAG 2012). All other ML/ARD samples for the Project have been analyzed by aqua regia digest for elemental content. The integration of different test methods into interpretation of the test results is discussed in Section 4.3.

Geochemical tests for the drill core samples included the following analyses, as summarized in Table 3-2:

- ABA tests were conducted to assess the potential for a sample to generate acidity, determined by the balance of acid generating minerals and neutralizing minerals in a sample. ABA testing included determination of:
 - Paste pH, to assess the current balance of acidity / alkalinity of the samples.
 - Sulphur content and speciation, to determine the acid potential (AP) of the samples. Total sulphur was determined by Leco analyzer, sulphate sulphur was determined by HCl-leach, and sulphide sulphur was determined by difference (Total sulphur less sulphate sulphur).
 - The neutralization potential (NP) content and form was determined by the Sobek NP method. Carbonate neutralization potential was determined by total inorganic carbon analysis (HCl-Leco method). Total carbon content by Leco analyzer was also determined.

- Results of the NP tests and calculation of acid potential (or maximum potential acidity) from sulphur test results were used to assess the neutralization potential ratio (NPR, NP/AP) of the samples and determine their potential to generate ARD. NPR values were assessed based on the criteria provided in Table 3-3, as identified in MEND (2009); however, for initial screening purposes, the threshold for separating potentially acid generating (PAG) and non-acid generating (NAG) rock was an NPR value of 2. This value is generally accepted as industry best practice.
- Elemental content analyses were conducted by aqua regia digestion and inductively coupled plasma-mass spectrometry (ICP-MS) scan. The purpose of this test is to assess the presence of environmentally significant elements and screen samples against qualitative threshold values. As previously described, some samples from previous programs were analyzed for elemental content by four-acid digestion. The results from the four-acid test are considered a more complete digestion and are not directly comparable to results from the aqua regia digestion. Test results focused on samples analyzed by aqua regia (n=694 samples) for the purposes of this report.
- Net acid generation testing was conducted to compliment the ABA analyses. This test involves rapid oxidation of sulphide with hydrogen peroxide to determine if the sample has enough neutralization capacity to buffer the acidity generated during sulphide oxidation.
- SFE testing was conducted to assess the potential release of soluble metals during the initial (i.e., short-term) stages of weathering but is not a direct indicator of drainage quality. Leachates were analyzed for pH, conductivity, sulphate, and dissolved metals. Results were screened against qualitative threshold values to identify leachable elements of interest.
- Net acid generation leachate testing was conducted to identify potential parameters that may be of interest for mine rock under net-acidic conditions. Leachates were analyzed for pH, conductivity, sulphate, and dissolved metals. These results provide only a total metal release under complete oxidation of the sulphide content of a sample and should not be interpreted as a direct indicator of drainage quality.
- Mineralogical testing was conducted by X-ray diffraction with R-XRD, to identify major and minor minerals, including those potentially involved in acid-generating and neutralizing reactions.

Table 3–1: Summary of Drillcore Samples

Type	Description	Previous Samples ^(A)	WSP Samples	Total Samples
Overall				
All Samples		623	253	876
Mine Rock		502	214	716
Ore-Grade Materials		121	39	160
Zone				
All Samples	Portage	419	190	609
	Camp	107	30	137
	East Extension	97	33	130
Mine Rock	Portage	325	154	479
	Camp	90	29	119
	East Extension	87	31	118
Ore-Grade Materials	Portage	94	36	130
	Camp	17	1	18
	East Extension	10	2	12
Lithology				
Mine Rock	Andesite, Tuff, & Metasediments	210	111	321
	Trachyte	110	58	168
	Volcanic Breccia	83	28	111
	Porphyry	93	16	109
	Lamprophyre	6	1	7
Ore-Grade Materials	Andesite, Tuff, & Metasediments	38	10	48
	Trachyte	39	15	54
	Volcanic Breccia	30	9	39
	Porphyry	13	5	18
	Lamprophyre	1	0	1

Notes:

Classification of mine rock and ore-grade materials based on a cutoff grade of 0.4 g/t Au

(A) Samples from previous programs including MDAG (2012) and KCC (2020)

Table 3–2: Summary of Static Testing Program

Type	Description	All Samples						WSP Samples						Samples By Others					
		ABA	Elemental Content ^(A)	NAG pH	SFE	NAG Leachate	R-XRD	ABA	Elemental Content ^(A)	NAG pH	SFE	NAG Leachate	R-XRD	ABA	Elemental Content ^(A)	NAG pH	SFE	NAG Leachate	R-XRD
Overall																			
All Samples		876	694	85	109	25	25	253	253	75	99	15	15	623	441	10	10	10	10
Mine Rock		716	550	69	91	14	18	214	214	64	86	9	13	502	336	5	5	5	5
Ore-Grade Materials		160	144	16	18	11	7	39	39	11	13	6	2	121	105	5	5	5	5
Zone																			
All Samples	Portage	609	488	52	66	22	19	190	190	45	59	15	12	419	298	7	7	7	7
	Camp	137	104	19	22	2	4	30	30	17	20	0	2	107	74	2	2	2	2
	East Extension	130	102	14	21	1	2	33	33	13	20	0	1	97	69	1	1	1	1
Mine Rock	Portage	479	370	38	51	12	13	154	154	35	48	9	10	325	216	3	3	3	3
	Camp	119	88	17	20	1	3	29	29	16	19	0	2	90	59	1	1	1	1
	East Extension	118	92	14	20	1	2	31	31	13	19	0	1	87	61	1	1	1	1
Ore-Grade Materials	Portage	130	118	14	15	10	6	36	36	10	11	6	2	94	82	4	4	4	4
	Camp	18	16	2	2	1	1	1	1	1	1	0	0	17	15	1	1	1	1
	East Extension	12	10	0	1	0	0	2	2	0	1	0	0	10	8	0	0	0	0
Lithology																			
Mine Rock	Andesite, Tuff, & Metasediments	321	244	34	45	9	4	111	111	32	43	7	2	210	133	2	2	2	2
	Trachyte	168	141	18	27	4	4	58	58	17	26	3	3	110	83	1	1	1	1
	Volcanic Breccia	111	95	13	14	3	4	28	28	12	13	2	3	83	67	1	1	1	1
	Porphyry	109	63	4	5	2	2	16	16	3	4	1	1	93	47	1	1	1	1
	Lamprophyre	7	7	0	0	0	0	1	1	0	0	0	0	6	6	0	0	0	0
Ore-Grade Materials	Andesite, Tuff, & Metasediments	48	41	6	7	3	4	10	10	3	4	0	1	38	31	3	3	3	3
	Trachyte	54	51	5	6	3	5	15	15	4	5	2	4	39	36	1	1	1	1
	Volcanic Breccia	39	37	3	3	1	1	9	9	2	2	0	0	30	28	1	1	1	1
	Porphyry	18	14	2	2	0	1	5	5	2	2	0	1	13	9	0	0	0	0
	Lamprophyre	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0

Notes:
Classification of waste and ore based on a cutoff grade of 0.4 g/t Au
(A) Includes samples analyzed by 3:1 aqua regia digestion and ICP-MS finish (see text).



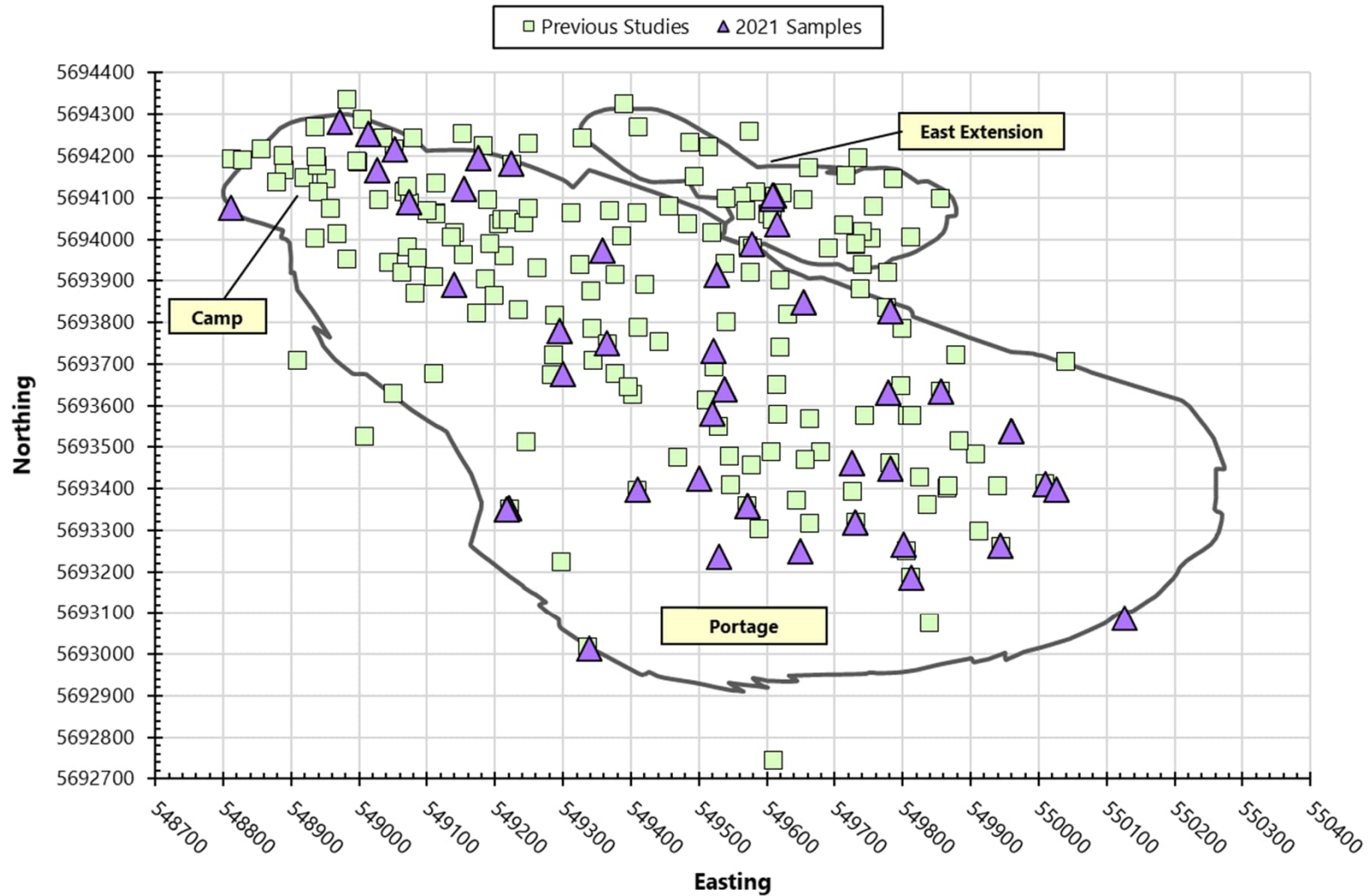
Table 3–3: Acid Rock Classification Criteria

ARD Classification^(A)	Screening Criteria	Implications
PAG	NPR<1	Materials are potentially acid generating
Uncertain	1<NPR<2	Materials have an uncertain acid generating potential
NAG	NPR>2	Materials have a low probability of becoming acid generating

Note:

(A) MEND 2009

Drill Collar Locations for ML/ARD Samples



Ultimate pit limits represented by solid grey line.

Pit outline shown based on available mine planning information at the time the baseline report was prepared.

Detailed cross sections showing sample locations, pit shell and resource outlines, and major lithological units are available in Appendix D – Cross Sections.

Baseline Static Geochemical Testing Report
(Rev 2)
Springpole Gold Project
Red Lake District, Ontario



Date: Feb. 2025

By: AK, KG

Project: ONS2104

Figure 3-1

4.0 RESULTS

Results are presented in Figure 4-1 to Figure 4-16 and tabulated in Appendices B and C. Laboratory certificates of analysis are provided in Appendix E.

The results presented below are based on results from both WSP samples and samples collected by others as part of previous testing programs.

4.1 Acid Base Accounting

ABA results are provided in Appendix B, Table B-1 to Table B-4, including a statistical summary of the results for each lithology and Zone. Results are discussed below for each component of the ABA testing.

4.1.1 Paste pH

Paste pH results are presented in Table 4-1 and summarized below.

- Overall, mine rock paste pH ranged from 4.0 to 10 (median 8.9) and ore-grade materials ranged from 4.3 to 9.8 (median 8.3); however, samples typically had paste pH values between 7.6 (10th percentile) and 9.5 (90th percentile).
- Although some samples had an acidic paste pH, indicating that these samples contained stored acidity, this represented a small fraction of the tested samples and included approximately 2% of the mine rock (n=12) and 6% of the ore-grade (n=9) samples. These samples were from the Portage Zone. No samples from the Camp and East Extension had an acidic paste pH.

4.1.2 Forms of Sulphur

The concentration of total sulphur and sulphide sulphur are presented in Figure 4-1 and Figure 4-2. Results are summarized in Table 4-2 and tabulated in Appendix B, Tables B-1 to B-4. Sulphur content and speciation are discussed below.

- Overall, the mine rock and ore-grade samples had variable sulphur contents, with sulphur concentrations ranging from below detection (i.e., 0.005%) to 10% for the mine rock and 0.01 to 7.5% for ore-grade materials. Mine rock samples generally had lower sulphur contents (median 0.9% sulphur) than samples classified as ore-grade materials (median 3% sulphur), however, many mine rock samples had high sulphur contents, similar to ore-grade materials.
- Samples from the Portage Zone generally had higher sulphur contents (median of 1.2% in the mine rock and 3.3% in ore-grade materials) than samples from the East Extension Zone (median 0.60% in the mine rock and 2.1% for ore-grade materials) and Camp Zone (median 0.5% and 2.2% in the mine rock and ore-grade materials, respectively; Table 4-2).
- In general, the sulphur content of the andesite, tuff, and metasediment samples was lower than other lithologies, and the sulphur content of the trachyte and volcanic breccia samples was higher than other lithologies. However, generally similar ranges of sulphur contents were observed for all Project rock types (Table 4-2).
- Comparison of total sulphur and sulphide sulphur contents indicated that sulphide sulphur represented the dominant form of sulphur in the samples, as presented in Figure 4-1 and Figure 4-2.
- Sulphate sulphur concentrations were generally low and often at or near the analytical detection limit. Overall, sulphate concentrations ranged from 0.005 to 0.3% (median 0.03%) for both the mine rock and the ore-grade materials samples. Little variability in sulphate content was observed among the Zones or lithologies.

As previously noted, most of the drill core samples were obtained from recent drilling, but some samples collected as part of previous studies were obtained from older drill core (>10 years old at the time of sampling). Therefore,

sulphur speciation tests results were inspected on the basis of core age at the time of analysis to assess if the archived drill core may have weathered in storage, which can influence interpretation of ABA test results.

A higher sulphate content or a greater proportion of sulphur present as sulphate sulphur in older drill core would suggest the possibility of in-situ weathering. No major differences in the concentration and form of sulphur were identified among the drill core samples of various ages, suggesting that in-situ weathering was limited.

4.1.3 Acid Potential

The acid potential of the samples was calculated from sulphide sulphur. A summary of AP values is provided in Table 4-3 and discussed below. Results are tabulated in Appendix B, Tables B-1 to B-4.

- AP values for the mine rock samples ranged from 0.13 to 312 kg CaCO₃/t (median 27 kg CaCO₃/t; Table 4-3). AP values for the ore-grade samples ranged from 0.25 to 232 kg CaCO₃/t (median 97 kg CaCO₃/t; Table 4-3).
- The highest AP values were observed in samples collected from the Portage Zone for both mine rock (median 36 kg CaCO₃/t) and ore-grade materials (median 102 kg CaCO₃/t), consistent with higher sulphur contents observed for this Zone. Lower AP values were observed for the Camp Zone (median AP of 14 kg CaCO₃/t in the mine rock and 66 kg CaCO₃/t in the ore-grade materials) and East Extension Zone (median AP of 19 kg CaCO₃/t in the mine rock and 64 kg CaCO₃/t in the ore-grade materials).
- In general, similar ranges of AP values were observed among the Project rock types (Table 4-3). However, the highest median AP values were generally observed for trachyte and volcanic breccia in the mine rock and ore-grade materials. Lower median AP values were noted for the andesite, tuff and metasediments.

4.1.4 Forms of Neutralization Potential

Neutralization potential (NP) content and form was assessed by two complementary methods, including the Sobek NP method and carbonate neutralization potential (CarbNP) by total inorganic carbon analysis. The results are presented in Table 4-4 as well as Figure 4-3 and Figure 4-4 and discussed below. NP and CarbNP results for all samples are tabulated in Appendix B, Tables B-1 to B-4.

- Overall, the NP content of the samples was variable, ranging from -1 to 546 kg CaCO₃/t (Table 4-4). NP ranged from -1 to 546 kg CaCO₃/t (median 126 kg CaCO₃/t) for mine rock samples and 0.10 to 407 kg CaCO₃/t (median 16 kg CaCO₃/t) for the ore-grade samples (Table 8). One sample of mine rock from the Portage Zone had a negative NP value (-1 kg CaCO₃/t). Although this sample also had non-detectable carbonate NP (<1.7 kg CaCO₃/t), it had low levels of sulphate sulphur (0.03%) and a circumneutral paste pH (pH 6.8). Based on these results, it is unclear if this sample contained stored acidity or if the slightly negative NP value is due to the precision of the NP test. No other samples had negative NP values.
- The samples formed two distinct groups based on their NP content. One group of samples had a low NP content (approximately 10 kg CaCO₃/t, ranging from -1 to 20 kg CaCO₃/t) and the other group of samples had a higher NP content (approximately 200 kg CaCO₃/t, ranging from approximately 50 to 500 kg CaCO₃/t). The low NP content group of samples were almost exclusively from the Portage Zone, whereas the higher NP content group included samples from the Portage, East Extension, and Camp Zones (Figure 4-3).

While samples of all Project lithologies were among the two NP groups, samples of andesite, tuff, and metasediments and volcanic breccia were predominantly within the higher NP group, and samples of trachyte and porphyry generally comprised most of the samples within the low NP group. However, these patterns were not always consistent, and some andesite, tuff and metasediments samples were among the low NP group, and numerous samples of trachyte and porphyry were also among the high NP group (Figure 4-4). The relationship between CarbNP and NP is presented in Figure 4-3 and Figure 4-4 and indicated the following:

- Carbonate neutralization potential was typically similar to or slightly lower than the neutralization potential content for samples with a higher NP content (e.g., NP >50 kg CaCO₃/t), indicating that most of the NP was present as carbonate minerals in these samples.
- The samples with lower NP content (e.g., NP <20 kg CaCO₃/t) generally had low levels of CarbNP (<10 kg CaCO₃/t), suggesting that non-carbonate minerals comprised a higher proportion of the NP in these samples. These samples were exclusively from the Portage Zone and included both mine rock and ore-grade samples of all Project lithologies (Figure 4-3).

A subset of samples with a low NP content (approximately 10% of the dataset) had notably elevated levels of carbonate NP, suggesting that these samples may contain non-net neutralizing carbonate minerals. Samples in this group included both mine rock and ore-grade samples of all Project lithologies (Figure 4-4). Drill core logs indicated that many samples in this group had argillic alteration, although potassic (biotite) and sericitic alteration was also noted in many of the low NP samples. Neutralization potential content and form results were inspected based on core age at the time of analysis to assess if the archived drill core may have weathered in storage, which can influence interpretation of ABA results. Lower NP content in older drill core would suggest the possibility of in situ weathering. However, no major difference in the NP content was observed among samples based on core age.

4.1.5 Neutralization Potential Ratios

As described in Section 3.0, a sample's ARD potential is primarily assessed based on its neutralization potential ratio (NPR). NPR values were calculated for each sample based on the sample's neutralization potential (NP) and acid potential (AP) ratio (NP/AP). For the purposes of this assessment, NPR values were calculated by two approaches including NPR and CarbNPR (ratio of Carb NP to AP), which assumes that only carbonate minerals (Carb NP) are available for neutralization. This approach was used to be conservative, as some of the samples contained relatively low neutralization potential content and non-detectable levels of carbonate NP.

As described in Section 3.0, for screening purposes, samples with an NPR of <2 were assumed to be PAG in accordance with industry standard guidance. The proportion of samples classified as PAG and NAG based on this threshold is summarized in Table 3-3. NPR values based on NP/AP and CarbNP/AP (CarbNPR) are presented in Figure 4-5 to Figure 4-8. A statistical summary of NPR and CarbNPR values is provided in Appendix B, Tables B-1 to B-4.

- Over half of the samples (58%) were classified as NAG, with NPR>2 (Table 4-5). Whereas 42% of the samples were classified as PAG based on NPR<2, with 35% of the mine rock samples and 74% of the ore-grade samples classified as PAG based on this threshold (Table 4-5). Similar distributions were observed for CarbNPR values as presented in Table 4-5).
- 54% of samples from the Portage Zone had NPR <2 and were classified as PAG. Most samples (e.g., on the order of 85%) from the East Extension Zone and Camp Zone were classified as NAG (NPR>2; Table 4-5) owing to the generally higher NP content and relatively lower sulphur content of these samples.
- Among the Project lithologies, approximately 80% of the andesite, tuff, and metasediment mine rock samples were classified as NAG (NPR>2, Table 4-5). Approximately half of the mine rock samples were classified as PAG (NPR<2) for the trachyte (48% PAG), porphyry (45% PAG), and volcanic breccia (47% PAG; Table 4-5) lithologies. As presented in Table 4-5, ore-grade samples of the Project lithologies were more frequently classified as PAG relative to the mine rock samples.
- As previously described, approximately 10% of the samples had Carb NP values that were notably higher than NP values suggesting the presence of non-net neutralizing carbonate minerals in these samples. Despite this, most of these samples were consistently classified as PAG or NAG when both NPR and Carb NPR values were considered. Approximately 1% of the samples (n=10 samples) were classified as NAG based on Carb NPR, and PAG when NPR was considered (NPR<2).

4.2 Net Acid Generation pH

The net acid generation test is considered a complementary analysis to ABA which provides an estimate of the potential of a sample to generate acid (MEND 2009). Results of the net acid generation test were screened against net acid generation pH criteria for PAG and NAG materials (AMIRA 2002). Net acid generation pH <4.5 is indicative of PAG material, whereas a net acid generation pH >4.5 indicates that a sample has little potential to produce net acidity in the future and may be NAG. Results of the net acid generation pH test are shown in Figure 4-9 and Figure 4-10 and discussed below. Net acid generation testing results are provided in Appendix B, Table B-5.

- 22% of the samples (n=19 samples) had an acidic net acid generation pH (<4.5) and were classified as PAG. This was consistent with the classification for those samples based on ABA testing (NPR <2).
- 78% of the samples (n=66 samples) had a net acid generation pH (>4.5) and were classified as NAG.
 - Approximately half (55%, n=47) of these samples were classified as NAG by ABA testing and have a low probability of producing ARD in the future.
 - However, 22% of the samples (n=19 samples) classified as NAG by net acid generation testing were classified as PAG by ABA testing (NPR <2). These samples typically had high levels of sulphur (i.e., >2% sulphur); while the samples appeared to be unreactive in the net acid generation test, due to their high sulphur content their classification as NAG may be a result of incomplete oxidation of sulphur in the single addition net acid generation test.
- Samples classified as PAG by the net acid generation test were exclusively from the Portage Zone. Samples classified as NAG by the net acid generation test were from all three geologic Zones of the deposit.

4.3 Metals / Elemental Content

Elemental analysis is used to quantify the concentration of elements in solid phases (i.e., minerals), but does not provide a direct assessment of metal leaching potential or resulting water quality. The elemental content of the samples was screened against ten times average crustal abundance values (Price 1997). Samples with elemental concentrations greater than these screening values were considered enriched in those elements.

The information presented below focuses on selected elements and includes those that are of key relevance to ML/ARD. Data for all elements analyzed as part of the elemental content analysis and screening of these results relative to ten times crustal abundance values is provided in Appendix B, Tables B-6 to B-9.

Results were reviewed to verify that enrichment was based on concentrations greater than the analytical detection limit, and that detection limits were lower than ten times the crustal abundance values. Some elements, including boron, were below detection in most samples.

The proportions of samples greater than the ten times crustal abundance screening values are summarized in Table 4-6 for selected elements and discussed below. Elemental content results and a statistical summary are provided in Appendix B, Table B-6 to B-9. It is noted that the comparison to ten times crustal abundance values was conducted for samples analyzed by aqua regia digestion (n=694 samples). The four-acid digestion (n=182 samples) test results from previous studies (MDAG 2012) were excluded owing to the more aggressive nature of this digestion method and its potential to overestimate metal concentrations due to the digestion of refractory silicate phases. As expected, the concentration of major rock forming elements were generally higher in samples analyzed by four acid digestion relative to the aqua regia digestion; however, the proportion of samples indicated to be enriched in certain elements was generally consistent for both methods. Elemental content data are provided in Appendix B, Table B-6.

The following observations were made with respect to elemental enrichment in the samples for key metals.

- Arsenic: 71% (n=495 samples) of the samples had arsenic concentrations greater than the screening value of 18 mg/kg, including approximately 70% (n=382) of the mine rock samples and 80% (n=114) of the ore-grade samples (Table 4-6; Appendix B, Tables B-6 to B-9). Arsenic concentrations ranged from 1.6 to 1254 mg/kg (median 34 mg/kg) and 3.8 to 451 mg/kg (median 44 mg/kg) for mine rock and ore-grade samples respectively. In general, arsenic concentrations were higher for the Camp Zone (median 55 mg/kg, ranging

from 4.4 to 451 mg/kg) and East Extension Zone (median 69 mg/kg, ranging from 9.0 to 1254 mg/kg), relative to the Portage Zone (median 25 mg/kg, ranging from 1.6 to 612 mg/kg). As shown in Table 4-6, arsenic concentrations were greater than the screening value in 61% of the mine rock samples from the Portage Zone and 81% and 93% of mine rock samples from the Camp Zone and East Extension Zones respectively.

- **Selenium:** 43% of samples (n=299) had selenium concentrations greater than the screening value of 0.5 mg/kg, including approximately 33% (n=181) of the mine rock samples and 82% (n=118) of the ore-grade samples (Table 4-6; Appendix B, Tables B-6 to B-9). Overall, 22% of the dataset (n=147 samples) had selenium concentrations that were below the analytical detection limit. Selenium concentrations ranged from 0.2 to 16 mg/kg (median 0.3 mg/kg) for mine rock samples and were slightly higher for ore-grade samples, ranging from 0.2 to 26 mg/kg (median 2.2 mg/kg). Overall, selenium enrichment was more common for mine rock and ore-grade samples from the Portage Zone (56% of samples) relative to the Camp Zone (16% of samples) and East Extension one (9% of samples; Table 4-6). Among mine rock samples, samples of porphyry had the highest proportion of samples with selenium concentrations above the 0.2 mg/kg screening value (79% of samples, Table 4-6). Among ore-grade samples, trachyte samples had the greatest proportion of samples above the screening value (92% of samples, Table 4-6).
- **Molybdenum:** 39% of samples (n=271) had molybdenum concentrations greater than the screening value of 12 mg/kg, including 30% of mine rock samples and 75% of ore-grade samples (Table 4-6; Appendix B, Tables B-6 to B-9). Molybdenum concentrations ranged from 0.07 to 977 mg/kg (median 5 mg/kg) in the mine rock samples and 0.3 to 1228 mg/kg (median 28 mg/kg) in the ore-grade samples (Appendix B, Tables B-6 to B-8). Overall, molybdenum enrichment was more commonly observed for mine rock and ore-grade samples from the Portage Zone (49% of samples) than for the Camp (17% of samples) and East Extension (13% of samples) Zones. The proportion of samples with molybdenum concentrations above the screening value was notably lower in the andesite tuff, and metasediments rock type (15% of mine rock samples and 59% of ore-grade samples) relative to samples from other Project lithologies (Table 4-6).
- **Silver:** 39% of samples (n=272) had silver concentrations greater than the screening value of 0.75 mg/kg, including approximately 29% (n=159) of the mine rock samples and 79% (n=114) of the ore-grade samples (Table 4-6; Appendix B, Tables B-6 to B-9). As presented in Appendix B, Tables B-6 to B-8, silver concentrations were typically low for mine rock, ranging from 0.01 to 60 mg/kg (median 0.31 mg/kg) and for ore-grade materials, ranging from 0.04 to 57 mg/kg (median 0.31 mg/kg). Overall, silver enrichment was more common for mine rock and ore-grade samples from the Portage Zone (51% of samples) relative to the Camp Zone (15 % of samples) and East Extension Zones (9% of samples; Table 4-6).
- **Antimony:** 33% of samples (n=229) had antimony concentrations greater than the screening value of 2.0 mg/kg, with 33% (n=179) of mine rock and 35% (n=50) of ore-grade samples enriched. Most samples had concentrations below this screening threshold, with antimony concentrations ranging from 0.1 to 55 mg/kg (median 1.3 mg/kg) in the mine rock samples and 0.18 to 108 mg/kg (median 1.4 mg/kg) for ore-grade samples (Appendix B, Tables B-6 to B-8). Antimony enrichment was more common for mine rock and ore samples from the East Extension Zone (78% of samples) than relative to the Camp Zone (45% of samples) and Portage Zone (21% of samples). Among mine rock samples, the volcanic breccia rock type had the greatest proportion (45%) of samples with concentrations above the screening value. In the ore-grade samples, the porphyry rock type had the greatest proportion (57%) of samples enriched in antimony for major rock types.
- **Lead:** 9% of samples (n=64) had lead concentrations greater than the screening value of 140 mg/kg. This included 8% (n=42) of the mine rock samples and 15% (n=22) of ore-grade samples. Lead concentrations ranged from 0.6 to 3,324 mg/kg (median 9.9 mg/kg) for mine rock samples and 1.5 to 2,755 mg/kg (median 26

mg/kg) for ore-grade samples (Appendix B, Tables B-6 to B-8). Overall lead enrichment was more common for mine rock and ore samples from the Portage Zone (12% of samples) relative to the Camp Zone (2% of samples) and East Extension Zone (4% of samples).

- **Cadmium:** 9% of samples (n=61) had cadmium concentrations greater than the screening value of 1.5 mg/kg, including 7% (n=39) of the mine rock samples and 15% (n=22) of the ore-grade samples. Cadmium concentrations were generally low, ranging from 0.01 to 51 mg/kg (median 0.13 mg/kg) for mine rock samples and 0.02 to 20 mg/kg (median 0.25 mg/kg) for ore-grade samples (Appendix B, Tables B-6 to B-8). Samples from the Portage Zone were most often enriched in cadmium (12% of samples) relative to samples from the Camp Zone (2% of samples) and East Extension Zone (2% of samples).
- Isolated instances of metal concentrations greater than the screening values (i.e., $\leq 5\%$ of the 694 samples) were observed for mercury (n=22) and tungsten (n=20), although concentrations were generally only marginally greater than the screening values for these elements. Isolated occurrences of enrichment were also observed for chromium (n=2), copper (n=3), thallium (n=4), boron (n=1), uranium (n=1), and zinc (n=7).

In general, higher metal concentrations were observed for samples with a greater sulphur content, with trends in elemental content and sulphur content observed for a number of elements including iron, arsenic, selenium, molybdenum, silver, antimony, lead, cadmium, copper, mercury, and uranium. However, the overall concentrations of most of these elements were low relative to screening values, as discussed above.

Elemental content data were compared to sulphur content on a molar basis for selected elements to assess the potential presence of metal sulphide minerals in the samples which could influence their ML/ARD potential.

Although certain elements that can be present as sulphide minerals were elevated relative to screening values, iron to sulphur molar ratios were in line with the presence of (FeS₂) for many of the samples, as shown in Figure 4-11. Higher concentrations of iron relative to sulphur were observed for some samples, attributed to the dissolution of biotite or chlorite in the aqua regia digestion. While arsenic was identified to be elevated relative to screening values in approximately 70% of the samples, a comparison of arsenic to sulphur molar ratios indicated that the arsenic content of the samples was notably lower than the sulphur content for nearly all of the samples, as shown in Figure 4-12. A subset of samples, generally from the East Extension Zone and Camp Zone, had slightly higher arsenic concentrations relative to most other samples in the dataset, however, arsenic concentrations were still lower than sulphur concentrations for most of these samples. This suggests that arsenopyrite (FeAsS) is not a significant sulphide in the samples, and arsenic may be present in other sulphide minerals (e.g., substituted in pyrite). This is consistent with mineralogical testwork results and geological observations for the Project, whereby pyrite is identified as the only sulphide mineral present in the rock.

4.4 Leachable Metals

Several static tests were conducted to assess parameters of potential interest for metal leaching from selected drill core samples, including the SFE test and the net acid generation leachate test. The results of these tests are discussed below.

4.4.1 Shake Flask Extraction

Overall, 109 samples were analyzed by the SFE test including a range of drill core samples from each of the Project lithologic groups and geologic Zones of the deposit. Leachate chemistry was compared to screening values to identify parameters of potential interest for metal leaching. The screening analysis included comparison of the SFE leachate chemistry to Ontario Provincial Water Quality Objectives (PWQO) for the protection of aquatic life, both PWQO and interim PWQO values. As described previously, the SFE test and screening approach is not a direct assessment of minewater quality and comparisons to screening criteria holds no regulatory significance.

SFE leachate results are tabulated in Appendix B, Table B-10, and parameters greater than the screening values are summarized in Table 4-7. Key observations of the SFE test results are summarized below.

The pH of all SFE leachates was circumneutral to weakly alkaline, ranging from pH 6.7 to 8.8 (median pH 7.3). One sample was slightly higher than the maximum PWQO screening value for pH (pH 8.5). This may be related to the SFE test conditions rather than representative of the drainage quality under field conditions.

Sulphate concentrations were generally low in the SFE leachates, on the order of 10 to 20 milligrams per litre (mg/L) for most samples. Two samples had sulphate concentrations on the order of 100 mg/L and 600 mg/L in their SFE leachates, suggesting that these two samples contained stored oxidation products or other soluble sulphate minerals. Mineralogical data (R-XRD) confirmed the presence of gypsum in the sample with 600 mg/L of sulphate in its SFE leachate (Appendix C, Table C-1). However, the reason for the higher sulphate concentration in the SFE leachate from the other sample is unclear as other tests did not suggest the presence of stored oxidation products or soluble sulphate phases in this sample.

Metal concentrations in the SFE leachates were low for most metals. However, several elements showed elevated concentrations relative to their respective screening values including arsenic (42% of the tested samples), antimony (13% of the tested samples), cobalt (17% of the tested samples), copper (18% of the tested samples), cadmium (9% of the tested samples), and lead (8% of the tested samples). Detection limits for mercury and phosphorous were greater than screening values for these elements for some samples (analyzed as part of a previous program), resulting in several samples that had mercury (10% of tested samples) and phosphorus (11% of tested samples) concentrations above the screening value. When only detectable results were considered, only 1% (n=1) and 5% (n=6) of the tested samples were above the screening values for mercury and phosphorous, respectively. Additional information on metal concentrations in the SFE leachates is provided below.

- Aluminum concentrations were higher than the interim PWQO screening value (0.075 mg/L) in 85% of samples tested. This is likely an artefact of the testing procedure due to the presence of colloidal aluminum and is unlikely to be observed under field conditions at neutral pH.
- Arsenic concentrations were greater than the interim PWQO screening value (0.005 mg/L) for 42% of the tested samples (n=46 samples) and the PWQO screening value (0.1 mg/L) for 4% of the tested samples (n=4; Table 4-7). In general samples from the Portage Zone showed lower arsenic concentrations in SFE leachates than samples from the East Extension and Camp Zones, but there were no strong patterns between arsenic leachability and lithology type. A relationship between arsenic content and leachable arsenic was observed, with higher arsenic content samples generally observed to show higher leachable arsenic concentrations in the SFE test (Figure 4-13).
- Copper concentrations were greater than the PWQO screening value (0.005 mg/L) in 18% of the tested samples (n=20, Table 4-7). All samples with elevated copper concentrations in SFE leachates were from the Portage Zone, including mine rock and ore-grade samples, with copper concentrations on the order of two- to eight-fold greater than the screening value. While some samples with a higher copper content showed higher copper concentrations in the SFE leachates for those samples, a strong relationship between copper content and SFE leachable copper was not observed (Figure 4-14).
- Cobalt concentrations were greater than the interim PWQO screening value (0.0009 mg/L) in 17% of analyzed samples (n=19, Table 4-7). All samples with elevated cobalt concentrations were from the Portage Zone, including mine rock and ore-grade samples (Table 4-7). A strong relationship between cobalt content and leachable cobalt was not observed.
- Antimony concentrations were greater than the interim PWQO screening value (0.02 mg/L) in 13% (n=14) of the tested samples (Table 4-7). Samples with antimony concentrations greater than the screening value included exclusively mine rock (Table 4-7), and samples with a higher antimony content showed higher leachable antimony concentrations in the SFE test (Figure 4-15). Overall antimony concentrations in SFE leachates were low and up to approximately two times higher than the interim PWQO screening value.

- Cadmium concentrations were greater than the PWQO (0.0002 mg/L) and interim PWQO (0.0001 mg/L) screening values in 7% (n=8) and 9% (n=10) of the tested samples, respectively (Table 4-7). Samples with elevated cadmium included mine rock and ore from the Portage Zone (Table 4-7) and most samples with elevated cadmium concentrations were only marginally greater than the screening values. Although samples with a lower cadmium content generally showed lower cadmium concentrations in SFE leachates, there was no consistent relationship between cadmium content and leachability in the SFE test.
- Lead concentrations were greater than the interim PWQO screening value (0.001 mg/L) in 8% of samples (n=9) and greater than the PWQO screening value (0.005 mg/L) in 4% of samples (n=4). Samples with elevated lead concentrations included mine rock and ore from the Portage Zone. Samples with a higher lead content generally had higher lead concentrations in SFE leachates (Figure 4-16).
- Isolated instances of leachate concentrations greater than the PWQO screening values (i.e., ≤5% of the 109 samples) were observed for zinc (n=8), zirconium (n=5), nickel (n=5), silver (n=4), molybdenum (n=3), thallium (n=3), tungsten (n=2), chromium (n=1), iron (n=1), and uranium (n=1).

4.4.2 Net Acid Generation Leachate

Net acid generation leachate testing of 25 samples was undertaken to assess metal leaching under acidic conditions (Appendix B, Table B-11). As discussed in Section 4.2, 22% of the samples (n=19 samples) analyzed by net acid generation testing produced acidic leachate and were identified as PAG.

Results for samples with acidic leachate suggested that aluminum, cadmium, chromium, cobalt, copper, iron, lead, nickel, silver, thallium, uranium, vanadium, and zinc are the most likely elements of potential interest under acidic leaching conditions.

4.5 Mineralogy

Mineralogical identification using R-XRD was completed on 25 drill core samples to assess their mineralogical composition including the presence of acid generating and acid neutralizing minerals. Samples of all major lithologic groups were tested. Results are presented in Appendix C, Table C-1. Chemical formulae of the minerals discussed below are provided in Table 4-8. It is noted that R-XRD can identify minerals at concentrations to fractions of a weight percent when suitable diffraction conditions exist.

Overall, pyrite was the only sulphide mineral identified by R-XRD. Pyrite was identified in 24 of the 25 tested samples, with pyrite contents ranging from 0.3 to 13%. One sample had no detectable sulphide minerals. Pyrite was identified in samples of all lithologies and in all Zones.

A comparison between R-XRD results (expressed as sulphide sulphur) and ABA sulphide analysis (sulphide sulphur by difference) indicated very good agreement between the two tests.

Low levels of sulphate minerals (gypsum, 0.8%) were identified in one sample of trachyte. Sulphate minerals were not identified in other samples. Overall, most samples analyzed contained carbonate minerals, predominately represented by calcite and dolomite. Additional carbonate minerals including ankerite-dolomite and siderite were also identified. A comparison between R-XRD results (expressed as kg CaCO₃/t) and CarbNP analysis indicated generally good agreement between the two tests.

Carbonate mineralogy observations are described below:

- Calcite (identified as calcite and magnesian calcite by R-XRD) and dolomite (identified as dolomite by R-XRD) was present in most samples. Calcite concentrations ranged from 0.3 to 18% and dolomite concentrations ranged from 0.7 to 18%. Calcite and dolomite co-occurred in some samples, but other samples contained exclusively calcite or dolomite. In general, the highest concentrations of calcite and dolomite were observed in samples from the andesite, tuff, and metasediments lithology.

- Non-net neutralizing carbonate minerals including siderite (identified as siderite or calcian siderite by R-XRD) and potentially ankerite were identified in 17 out of the 25 tested samples.
 - When identified, siderite was generally present with other calcite and dolomite, often at lower concentrations than these phases (on the order of 0.2 to 2.1%), although siderite represented the only carbonate mineral detected by R-XRD in 2 of the 8 samples that contained siderite. Siderite was primarily identified in samples from the Portage Zone and where identified it was present in samples of all lithologies.
 - The presence of ankerite could not be resolved with R-XRD and this phase was identified as an ankerite-dolomite solid solution (possibly ferroan dolomite). Ankerite-dolomite was identified to be present in ten samples including samples from all tested lithologies, with concentrations ranging from 0.8 to 20%. Eight of the ten samples with ankerite-dolomite also contained percent-level concentrations of dolomite or calcite. Carb NP values were slightly lower than NP values for the samples where ankerite-dolomite was identified, suggesting that if present ankerite likely did not comprise a high proportion of the carbonates in these samples

The following additional observations are provided from the R-XRD results:

- Potassium feldspar (microcline) was variably present in the samples, most often identified in samples of the trachyte and volcanic breccia rock types. Plagioclase feldspar (albite) was present in nearly all of the samples, with concentrations ranging from several percent up to 40%. Higher concentrations of plagioclase were most commonly identified in samples of the andesite, tuff, and metasediment rock type.
- Phyllosilicate minerals including clinocllore, illite/muscovite, biotite, phlogopite and kaolinite were also observed. Illite/muscovite was observed in all of the samples whereas clinocllore was present only in samples of the andesite, tuff and metasediments rock type. Biotite was variably present among the samples, with the highest biotite concentrations observed in some of the ore-grade samples of trachyte (20 to 30%). Kaolinite was observed at relatively low concentrations (0.3 to 2%) in a few samples from the Portage Zone.
- Quartz was present in all of the samples with concentrations on the order of several percent up to 25% (Appendix C). Other oxide minerals including magnetite, ilmenite and rutile were present at generally low amounts (up to several percent) in some of the samples. Halide minerals (fluorite, halite) were identified to be present in several samples in generally low abundance (Appendix C).

Table 4–1: Summary of Paste pH Values

Type	Description	Count	Median	Range
			Paste pH	
Overall				
All Samples		876	8.855	4.0-10
Mine Rock		716	8.935	4.0-10
Ore-Grade Materials		160	8.3	4.3-9.8
Zone				
All Samples	Portage	609	8.66	4.0 - 10
	Camp	137	8.97	7.9 - 9.9
	East Extension	130	9.245	8.1 - 9.9
Mine Rock	Portage	479	8.79	4.0 - 10
	Camp	119	8.99	7.9 - 9.9
	East Extension	118	9.265	8.1 - 9.9
Ore-Grade Materials	Portage	130	8.12	4.3 - 9.5
	Camp	18	8.85	8.3 - 9.5
	East Extension	12	8.82	8.2 - 9.8
Lithology				
Mine Rock	Andesite, Tuff, & Metasediments	321	8.97	5.0 - 10
	Trachyte	168	8.89	6.1 - 9.8
	Porphyry	109	8.9	5.2 - 9.8
	Volcanic Breccia	111	8.86	4.0 - 9.7
	Lamprophyre	7	8.25	7.4 - 9.6
Ore-Grade Materials	Andesite, Tuff, & Metasediments	48	8.6	6.7 - 9.8
	Trachyte	54	7.885	4.3 - 9.3
	Porphyry	18	8.215	6.5 - 9.5
	Volcanic Breccia	39	8.45	5.4 - 9.6
	Lamprophyre	1	7.86	--

Notes:

Classification of waste and ore based on a cutoff grade of 0.4 g/t Au

Table 4–2: Sulphur Speciation Summary

Type		Description	Count	Median	Range	Median	Range	Median	Range
				Total S (%)		Sulphate S (%)		Sulphide S (%)	
Overall									
		All Samples	876	1.19	0.0050 - 10	0.03	0.0050 - 0.30	1.16	0.0040 - 10
		Mine Rock	716	0.8945	0.0050 - 10	0.03	0.0050 - 0.30	0.87	0.0040 - 10
		Ore-Grade Materials	160	3.16	0.010 - 7	0.03	0.0050 - 0.25	3.115	0.0080 - 7
Zone									
All Samples	Portage	609	1.49	0.010 - 10	0.03	0.0050 - 0.30	1.455	0.0040 - 10	
	Camp	137	0.52	0.0050 - 6	0.03	0.0050 - 0.18	0.495	0.010 - 6	
	East Extension	130	0.714	0.010 - 6	0.02	0.0050 - 0.040	0.694	0.010 - 6	
Mine Rock	Portage	479	1.18	0.010 - 10	0.03	0.0050 - 0.30	1.14	0.0040 - 10	
	Camp	119	0.473	0.0050 - 5	0.03	0.0050 - 0.18	0.441	0.010 - 5	
	East Extension	118	0.625	0.010 - 6	0.02	0.0050 - 0.040	0.6215	0.010 - 6	
Ore-Grade Materials	Portage	130	3.305	0.010 - 7	0.03	0.0050 - 0.25	3.255	0.0080 - 7	
	Camp	18	2.16	0.095 - 6	0.03	0.010 - 0.05	2.125	0.055 - 6	
	East Extension	12	2.085	0.23 - 5	0.02	0.0050 - 0.04	2.0625	0.23 - 5	
Lithology									
Mine Rock	Andesite, Tuff, & Metasediments	321	0.56	0.0050 - 10	0.03	0.0050 - 0.30	0.533	0.0040 - 10	
	Trachyte	168	1.265	0.0100 - 7	0.03	0.0050 - 0.10	1.24	0.0050 - 7	
	Porphyry	109	0.887	0.0200 - 7	0.02	0.0050 - 0.10	0.857	0.010 - 7	
	Volcanic Breccia	111	1.48	0.0200 - 7	0.03	0.0050 - 0.20	1.45	0.010 - 7	
	Lamprophyre	7	0.43	0.0400 - 2	0.03	0.0250 - 0.05	0.405	0.010 - 2	
Ore-Grade Materials	Andesite, Tuff, & Metasediments	48	2.95	0.2300 - 6	0.03	0.0050 - 0.19	2.92	0.23 - 6	
	Trachyte	54	3.76	0.3610 - 7	0.04	0.0050 - 0.25	3.73	0.33 - 7	
	Porphyry	18	1.715	0.0380 - 6	0.03	0.0100 - 0.06	1.68	0.0080 - 6	
	Volcanic Breccia	39	3	0.0100 - 6	0.03	0.0050 - 0.07	2.995	0.010 - 6	
	Lamprophyre	1	3.33	--	0.03	--	3.3	--	

Notes:
Classification of waste and ore based on a cutoff grade of 0.4 g/t Au
Total sulphur determined by Leco analyzer; sulphate sulphur determined by HCl leach.
Sulphide sulphur calculated as the difference between total sulphur and sulphate sulphur.

Table 4–3: Summary of AP Values

Type	Description	Count	Median	Range
			AP (kg CaCO ₃ /t)	
Overall				
All Samples		876	36	0.13 - 312
Mine Rock		716	27	0.13 - 312
Ore-Grade Materials		160	97	0.25 - 232
Zone				
All Samples	Portage	609	45	0.13 - 312
	Camp	137	15	0.31 - 186
	East Extension	130	22	0.31 - 198
Mine Rock	Portage	479	36	0.13 - 312
	Camp	119	14	0.31 - 169
	East Extension	118	19	0.31 - 198
Ore-Grade Materials	Portage	130	102	0.25 - 232
	Camp	18	66	1.7 - 186
	East Extension	12	64	7.0 - 158
Lithology				
Mine Rock	Andesite, Tuff, & Metasediments	321	17	0.13 - 312
	Trachyte	168	39	0.16 - 225
	Porphyry	109	27	0.31 - 210
	Volcanic Breccia	111	45	0.31 - 206
	Lamprophyre	7	13	0.31 - 48
Ore-Grade Materials	Andesite, Tuff, & Metasediments	48	91	7.0 - 191
	Trachyte	54	117	10 - 232
	Porphyry	18	53	0.25 - 191
	Volcanic Breccia	39	94	0.31 - 201
	Lamprophyre	1	103	--

Notes:

Classification of waste and ore based on a cutoff grade of 0.4 g/t Au

Table 4–4: Summary of NP Values

Type	Description	Count	Median	Range
			AP (kg CaCO ₃ /t)	
Overall				
All Samples		876	119	-1.1 - 546
Mine Rock		716	126	-1 - 546
Ore-Grade Materials		160	16	0.10 - 407
Zone				
All Samples	Portage	609	82	-1.1 - 396
	Camp	137	162	6.4 - 546
	East Extension	130	149	54 - 407
Mine Rock	Portage	479	100	-1.1 - 396
	Camp	119	159	6.4 - 546
	East Extension	118	145	54 - 398
Ore-Grade Materials	Portage	130	13	0.10 - 313
	Camp	18	195	109 - 380
	East Extension	12	180	116 - 407
Lithology				
Mine Rock	Andesite, Tuff, & Metasediments	321	147	2.6 - 398
	Trachyte	168	108	2.5 - 273
	Porphyry	109	70	0.90 - 546
	Volcanic Breccia	111	123	-1.1 - 317
	Lamprophyre	7	13	6.1 - 396
Ore-Grade Materials	Andesite, Tuff, & Metasediments	48	122	4.4 - 407
	Trachyte	54	11	3.3 - 368
	Porphyry	18	13	3.9 - 399
	Volcanic Breccia	39	72	0.10 - 380
	Lamprophyre	1	8.5	--

Notes:

Classification of waste and ore based on a cutoff grade of 0.4 g/t Au

NP measured by the Sobek Method

Table 4–5: Proportions of PAG and NAG Samples

Type	Description	Count	NPR (NP/AP)				CarbNPR (CarbNP/AP)			
			PAG	NAG	%PAG	%NAG	PAG	NAG	%PAG	%NAG
Overall										
All Samples		876	370	506	42%	58%	389	487	44%	56%
Mine Rock		716	251	465	35%	65%	264	452	37%	63%
Ore-Grade Materials		160	119	41	74%	26%	125	35	78%	22%
Zone										
All Samples	Portage	609	330	279	54%	46%	347	262	57%	43%
	Camp	137	23	114	17%	83%	25	112	18%	82%
	East Extension	130	17	113	13%	87%	17	113	13%	87%
Mine Rock	Portage	479	219	260	46%	54%	231	248	48%	52%
	Camp	119	19	100	16%	84%	20	99	17%	83%
	East Extension	118	13	105	11%	89%	13	105	11%	89%
Ore-Grade Materials	Portage	130	111	19	85%	15%	116	14	89%	11%
	Camp	18	4	14	22%	78%	5	13	28%	72%
	East Extension	12	4	8	33%	67%	4	8	33%	67%
Lithology										
Mine Rock	Andesite, Tuff, & Metasediments	321	67	254	21%	79%	72	249	22%	78%
	Trachyte	168	80	88	48%	52%	83	85	49%	51%
	Porphyry	109	49	60	45%	55%	54	55	50%	50%
	Volcanic Breccia	111	52	59	47%	53%	52	59	47%	53%
	Lamprophyre	7	3	4	43%	57%	3	4	43%	57%
Ore-Grade Materials	Andesite, Tuff, & Metasediments	48	28	20	58%	42%	30	18	63%	38%
	Trachyte	54	46	8	85%	15%	47	7	87%	13%
	Porphyry	18	14	4	78%	22%	14	4	78%	22%
	Volcanic Breccia	39	30	9	77%	23%	33	6	85%	15%
	Lamprophyre	1	1	0	100%	0%	1	0	100%	0%

Notes:
Classification of waste and ore based on a cutoff grade of 0.4 g/t Au



Table 4–6: Summary of Samples with Enriched Elemental Content Relative to Screening Values

Type	Description	Count	Count Greater Than 10x Crustal Abundance														
			Ag	As	B	Cd	Cr	Cu	Hg	Mo	Pb	Sb	Se	Tl	U	W	Zn
Detection Limit (mg/kg)			0.01	0.1	10	0.01	1	0.2	0.01	0.05	0.2	0.05	0.2	0.02	0.05	0.05	0.5
10x Continental Crust Value (mg/kg)			0.75	18	100	1.5	1020	600	0.85	12	140	2	0.5	8.5	27	12.5	1650
Overall																	
All Samples		694	272	496	1	61	2	3	22	271	64	229	299	4	1	20	7
Mine Rock		550	158	382	0	39	2	2	13	163	42	179	181	4	1	14	3
Ore-Grade Materials		144	114	114	1	22	0	1	9	108	22	50	118	0	0	6	4
Zone																	
All Samples	Portage	488	247	312	1	57	2	3	20	240	58	101	273	3	1	6	6
	Camp	104	16	87	0	2	0	0	1	18	2	47	17	1	0	6	0
	East Extension	102	9	96	0	2	0	0	1	13	4	80	9	0	0	8	1
Mine Rock	Portage	370	146	224	0	36	2	2	12	143	38	70	168	3	1	3	3
	Camp	88	7	71	0	2	0	0	1	12	2	37	9	1	0	1	0
	East Extension	92	5	86	0	1	0	0	0	8	2	71	4	0	0	6	0
Ore-Grade Materials	Portage	118	101	88	1	21	0	1	8	97	20	31	105	0	0	3	3
	Camp	16	9	16	0	0	0	0	0	6	0	10	8	0	0	5	0
	East Extension	10	4	10	0	1	0	0	1	5	2	9	5	0	0	2	1
Lithology																	
Mine Rock	Andesite, Tuff, & Metasediments	244	44	158	0	12	0	1	5	36	8	77	46	3	0	0	5
	Trachyte	141	50	94	0	13	1	0	2	54	17	40	54	0	0	0	1
	Porphyry	63	32	43	0	4	0	0	2	33	9	17	38	0	0	0	1
	Volcanic Breccia	95	31	81	0	9	0	1	4	38	8	43	40	0	1	0	7
	Lamprophyre	7	1	5	0	1	1	0	0	2	0	1	3	1	0	0	0
Ore-Grade Materials	Andesite, Tuff, & Metasediments	41	28	35	0	7	0	0	5	24	6	14	29	0	0	0	2
	Trachyte	51	46	38	0	10	0	0	1	43	6	13	47	0	0	0	1
	Porphyry	14	11	11	0	2	0	0	1	10	2	8	11	0	0	0	1
	Volcanic Breccia	37	28	29	1	3	0	1	2	30	8	14	30	0	0	0	2
	Lamprophyre	1	1	1	0	0	0	0	0	1	0	1	1	0	0	0	0

Notes:
Classification of waste and ore based on a cutoff grade of 0.4 g/t Au
Table includes samples analyzed by 3:1 aqua regia digest and ICP-MS finish

Table 4-7 Overview of SFE Leachate Screening Results

Parameter			pH	Aluminum	Antimony	Arsenic	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Mercury	Molybdenum	Nickel	Phosphorous	Silver	Thallium	Tungsten	Uranium	Vanadium	Zinc	Zirconium
Units			pH Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
In-Place PWQO			6.5-8.5	-	-	0.1	0.0002	0.001	0.0009	0.005	0.3	0.005	0.0002	-	0.025	-	0.0001	-	-	-	-	0.03	-
Interim PWQO			-	0.075	0.02	0.005	0.0001	-	-	0.005	-	0.001	-	0.04	-	0.02	-	0.0003	0.03	0.005	0.006	0.02	0.004
Overall																							
All Samples	Count		109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109
	% Greater than In-Place PWQO		1%	-	-	4%	7%	1%	-	18%	1%	4%	10%	-	5%	-	4%	-	-	-	-	4%	-
	% Greater than Interim PWQO		-	85%	13%	42%	9%	-	17%	18%	-	8%	-	3%	-	11%	-	3%	2%	1%	0%	4%	6%
Mine Rock	Count		91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91
	% Greater than In-Place PWQO		0%	-	-	3%	4%	1%	-	15%	0%	4%	5%	-	3%	-	3%	-	-	-	-	3%	-
	% Greater than Interim PWQO		-	91%	15%	42%	5%	-	11%	15%	-	8%	-	1%	-	8%	-	1%	2%	1%	0%	3%	4%
Ore-Grade Materials	Count		18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
	% Greater than In-Place PWQO		6%	-	-	6%	22%	0%	-	33%	6%	0%	33%	-	11%	-	6%	-	-	-	-	6%	-
	% Greater than Interim PWQO		-	56%	0%	44%	28%	-	50%	33%	-	11%	-	11%	-	28%	-	11%	0%	0%	0%	6%	11%
Zone																							
All Samples	Portage	Count	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66
		% Greater than In-Place PWQO	0%	-	-	0%	12%	0%	-	30%	2%	6%	12%	-	8%	-	6%	-	-	-	-	6%	-
		% Greater than Interim PWQO	-	76%	3%	27%	15%	-	29%	30%	-	14%	-	5%	-	14%	-	5%	3%	2%	0%	6%	9%
	Camp	Count	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
		% Greater than In-Place PWQO	5%	-	-	5%	0%	5%	-	0%	0%	0%	9%	-	0%	-	0%	-	-	-	-	0%	-
		% Greater than Interim PWQO	-	100%	23%	45%	0%	-	0%	0%	-	0%	-	0%	-	9%	-	0%	0%	0%	0%	0%	0%
	East Extension	Count	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
		% Greater than In-Place PWQO	0%	-	-	14%	0%	0%	-	0%	0%	0%	5%	-	0%	-	0%	-	-	-	-	0%	-
		% Greater than Interim PWQO	-	100%	33%	86%	0%	-	0%	0%	-	0%	-	0%	-	5%	-	0%	0%	0%	0%	0%	0%
Mine Rock	Portage	Count	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
		% Greater than In-Place PWQO	0%	-	-	0%	8%	0%	-	27%	0%	8%	6%	-	6%	-	6%	-	-	-	-	6%	-
		% Greater than Interim PWQO	-	84%	4%	25%	10%	-	20%	27%	-	14%	-	2%	-	10%	-	2%	4%	2%	0%	6%	8%
	Camp	Count	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
		% Greater than In-Place PWQO	0%	-	-	0%	0%	5%	-	0%	0%	0%	5%	-	0%	-	0%	-	-	-	-	0%	-
		% Greater than Interim PWQO	-	100%	25%	40%	0%	-	0%	0%	-	0%	-	0%	-	5%	-	0%	0%	0%	0%	0%	0%
	East Extension	Count	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
		% Greater than In-Place PWQO	0%	-	-	15%	0%	0%	-	0%	0%	0%	5%	-	0%	-	0%	-	-	-	-	0%	-
		% Greater than Interim PWQO	-	100%	35%	85%	0%	-	0%	0%	-	0%	-	0%	-	5%	-	0%	0%	0%	0%	0%	0%
Ore-Grade Materials	Portage	Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
		% Greater than In-Place PWQO	0%	-	-	0%	27%	0%	-	40%	7%	0%	33%	-	13%	-	7%	-	-	-	-	7%	-
		% Greater than Interim PWQO	-	47%	0%	33%	33%	-	60%	40%	-	13%	-	13%	-	27%	-	13%	0%	0%	0%	7%	13%
	Camp	Count	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		% Greater than In-Place PWQO	50%	-	-	50%	0%	0%	-	0%	0%	0%	50%	-	0%	-	0%	-	-	-	-	0%	-
		% Greater than Interim PWQO	-	100%	0%	100%	0%	-	0%	0%	-	0%	-	0%	-	50%	-	0%	0%	0%	0%	0%	0%
	East Extension	Count	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		% Greater than In-Place PWQO	0%	-	-	0%	0%	0%	-	0%	0%	0%	0%	-	0%	-	0%	-	-	-	-	0%	-
		% Greater than Interim PWQO	-	100%	0%	100%	0%	-	0%	0%	-	0%	-	0%	-	0%	-	0%	0%	0%	0%	0%	0%

Notes:

Table 4-7 Overview of SFE Leachate Screening Results

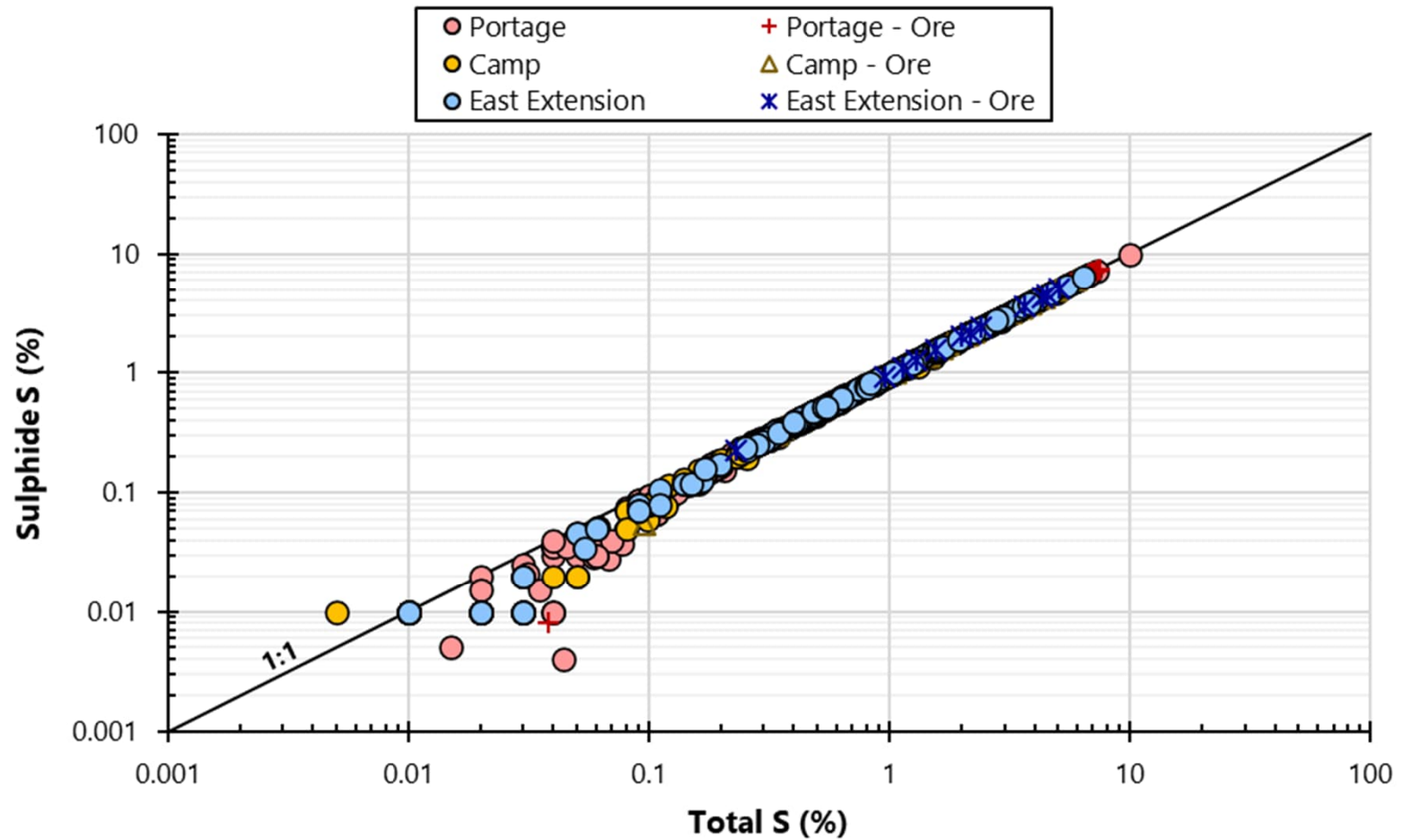
Parameter			pH	Aluminum	Antimony	Arsenic	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Mercury	Molybdenum	Nickel	Phosphorous	Silver	Thallium	Tungsten	Uranium	Vanadium	Zinc	Zirconium
Units			pH Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
In-Place PWQO			6.5-8.5	-	-	0.1	0.0002	0.001	0.0009	0.005	0.3	0.005	0.0002	-	0.025	-	0.0001	-	-	-	-	0.03	-
Interim PWQO			-	0.075	0.02	0.005	0.0001	-	-	0.005	-	0.001	-	0.04	-	0.02	-	0.0003	0.03	0.005	0.006	0.02	0.004
Lithology																							
Mine Rock	Andesite, Tuff, and Metasediments	Count	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
		% Greater than In-Place PWQO	0%	-	-	7%	0%	0%	-	16%	0%	0%	4%	-	0%	-	0%	-	-	-	-	0%	-
		% Greater than Interim PWQO	-	96%	13%	33%	0%	-	4%	16%	-	0%	-	0%	-	4%	-	0%	0%	0%	0%	0%	0%
	Trachyte	Count	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
		% Greater than In-Place PWQO	0%	-	-	0%	7%	4%	-	15%	0%	11%	4%	-	7%	-	7%	-	-	-	-	4%	-
		% Greater than Interim PWQO	-	85%	19%	44%	7%	-	19%	15%	-	15%	-	4%	-	4%	-	4%	4%	0%	0%	4%	7%
	Porphyry	Count	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
		% Greater than In-Place PWQO	0%	-	-	0%	20%	0%	-	40%	0%	0%	20%	-	20%	-	20%	-	-	-	-	20%	-
		% Greater than Interim PWQO	-	60%	20%	60%	40%	-	40%	40%	-	20%	-	0%	-	40%	-	0%	20%	20%	0%	20%	20%
	Volcanic Breccia	Count	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
		% Greater than In-Place PWQO	0%	-	-	0%	7%	0%	-	7%	0%	7%	7%	-	0%	-	0%	-	-	-	-	7%	-
		% Greater than Interim PWQO	-	100%	14%	57%	7%	-	7%	7%	-	14%	-	0%	-	14%	-	0%	0%	0%	0%	7%	7%
	Lamprophyre	Count	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		% Greater than In-Place PWQO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		% Greater than Interim PWQO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ore-Grade Materials	Andesite, Tuff, and Metasediments	Count	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
		% Greater than In-Place PWQO	14%	-	-	14%	29%	0%	-	29%	0%	0%	43%	-	0%	-	0%	-	-	-	-	0%	-
		% Greater than Interim PWQO	-	71%	0%	29%	29%	-	43%	29%	-	14%	-	14%	-	43%	-	0%	0%	0%	0%	0%	14%
	Trachyte	Count	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
		% Greater than In-Place PWQO	0%	-	-	0%	33%	0%	-	50%	17%	0%	33%	-	33%	-	0%	-	-	-	-	17%	-
		% Greater than Interim PWQO	-	50%	0%	67%	50%	-	67%	50%	-	17%	-	0%	-	17%	-	33%	0%	0%	0%	17%	17%
	Porphyry	Count	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		% Greater than In-Place PWQO	0%	-	-	0%	0%	0%	-	0%	0%	0%	0%	-	0%	-	0%	-	-	-	-	0%	-
		% Greater than Interim PWQO	-	50%	0%	50%	0%	-	50%	0%	-	0%	-	50%	-	0%	-	0%	0%	0%	0%	0%	0%
	Volcanic Breccia	Count	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
		% Greater than In-Place PWQO	0%	-	-	0%	0%	0%	-	33%	0%	0%	33%	-	0%	-	33%	-	-	-	-	0%	-
		% Greater than Interim PWQO	-	33%	0%	33%	0%	-	33%	33%	-	0%	-	0%	-	33%	-	0%	0%	0%	0%	0%	0%
	Lamprophyre	Count	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		% Greater than In-Place PWQO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		% Greater than Interim PWQO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
Classification of ore-grade materials based on a cutoff grade of 0.4 g/t Au.

Table 4–8: Chemical Formulae of Minerals Identified in R-XRD

Mineral Group	Mineral Name	Chemical Formula
Sulphides	Pyrite	FeS ₂
Sulphates	Gypsum	CaSO ₄ 2H ₂ O
Carbonates	Ankerite-Dolomite	Ca(Fe ^(II) ,Mg,Mn)(CO ₃) ₂ -CaMg(CO ₃) ₂
	Dolomite	CaMg(CO ₃) ₂
	Calcite, magnesian	(Ca,Mg)CO ₃
	Calcite	CaCO ₃
	Siderite	Fe ^(II) CO ₃
	Siderite, calcian	(Fe,Ca,Mg)CO ₃
Feldspars	K-Feldspar (Microcline)	KAlSi ₃ O ₈
	Plagioclase (Albite)	NaAlSi ₃ O ₈ – CaAl ₂ Si ₂ O ₈
Phyllosilicates	Biotite	K(Mg,Fe ^(II)) ₃ AlSi ₃ O ₁₀ (OH) ₂
	Illite/Muscovite	K _{0.65} Al _{2.0} Al _{0.65} Si _{3.35} O ₁₀ (OH) ₂ -KAl ₂ AlSi ₃ O ₁₀ (OH) ₂
	Clinochlore	(Mg,Fe ^(II)) ₅ Al(Si ₃ Al)O ₁₀ (OH) ₈
	Kaolinite	Al ₂ Si ₂ O ₅ (OH) ₄
	Phlogopite	KMg ₃ AlSi ₃ O ₁₀ (OH) ₂
Oxides	Quartz	SiO ₂
	Magnetite	Fe ^(II) Fe ^(III) ₂ O ₄
	Ilmenite	Fe ^(II) TiO ₃
	Rutile	TiO ₂
Halides	Fluorite	CaF ₂
	Halite	NaCl

Sulphide S vs. Total S - Zone



Classification of mine rock and ore-grade materials based on a cutoff grade of 0.4 g/t Au.

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(Rev 2)
Springpole Gold Project
Red Lake District, Ontario



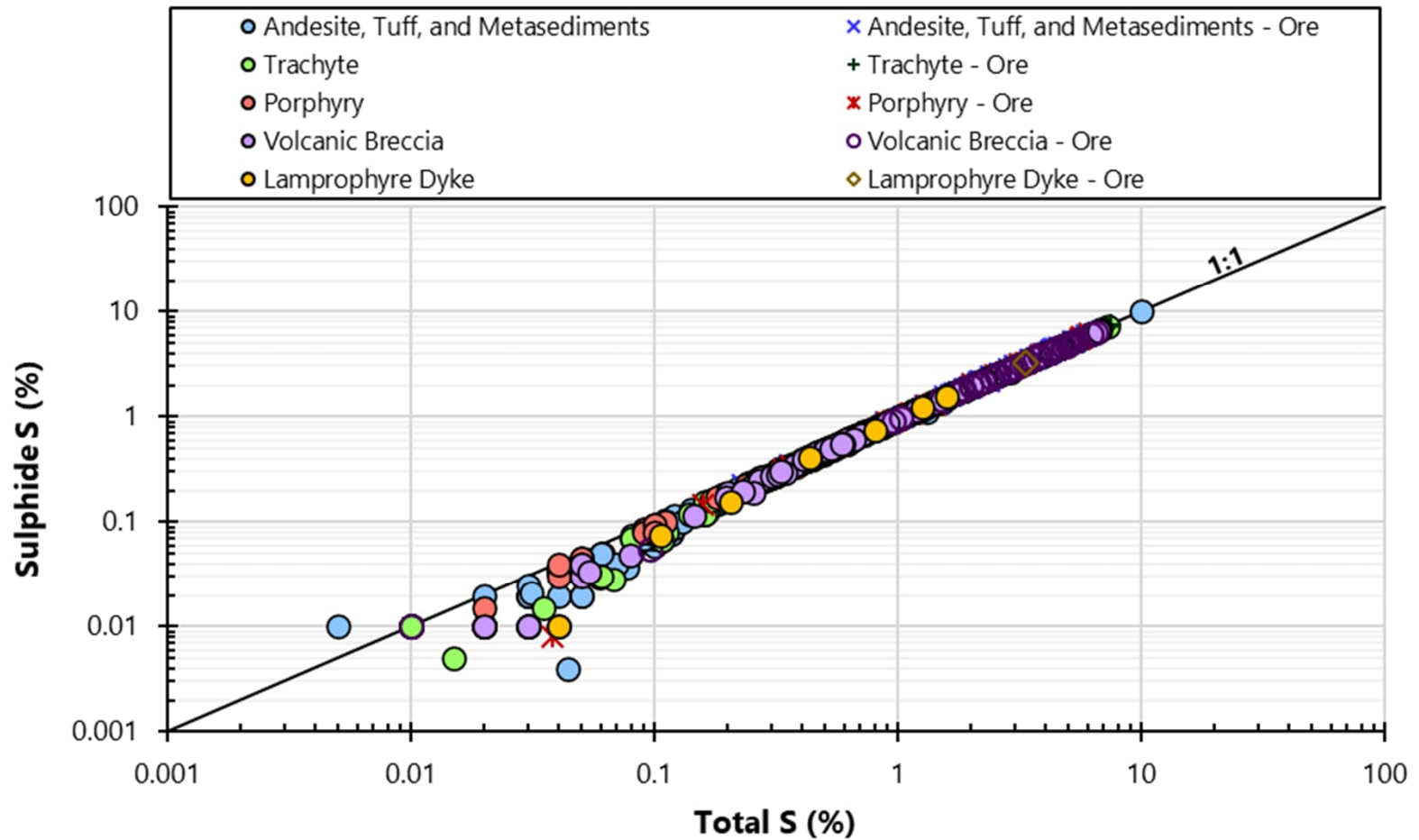
Date: Feb. 2025

Project: ONS2104

By: AK, KG

Figure 4-1

Sulphide S vs. Total S - Lithology



Classification of mine rock and ore-grade materials based on a cutoff grade of 0.4 g/t Au.

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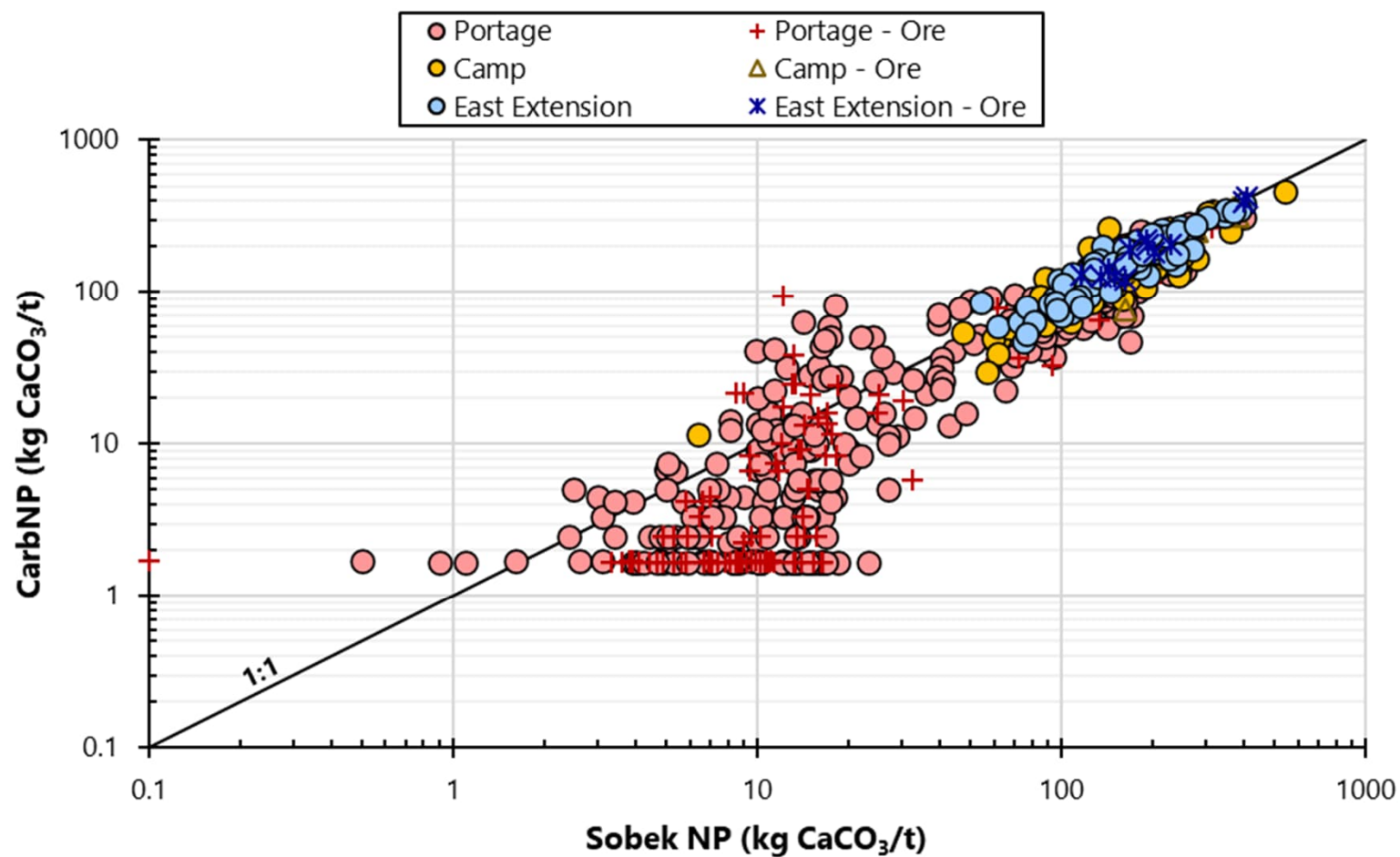
Date: Feb. 2025

Project: ONS2104

By: AK, KG

Figure 4-2

CarbNP vs. Sobek NP - Zone



Classification of mine rock and ore-grade materials based on a cutoff grade of 0.4 g/t Au.

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Springpole Gold Project
Red Lake District, Ontario



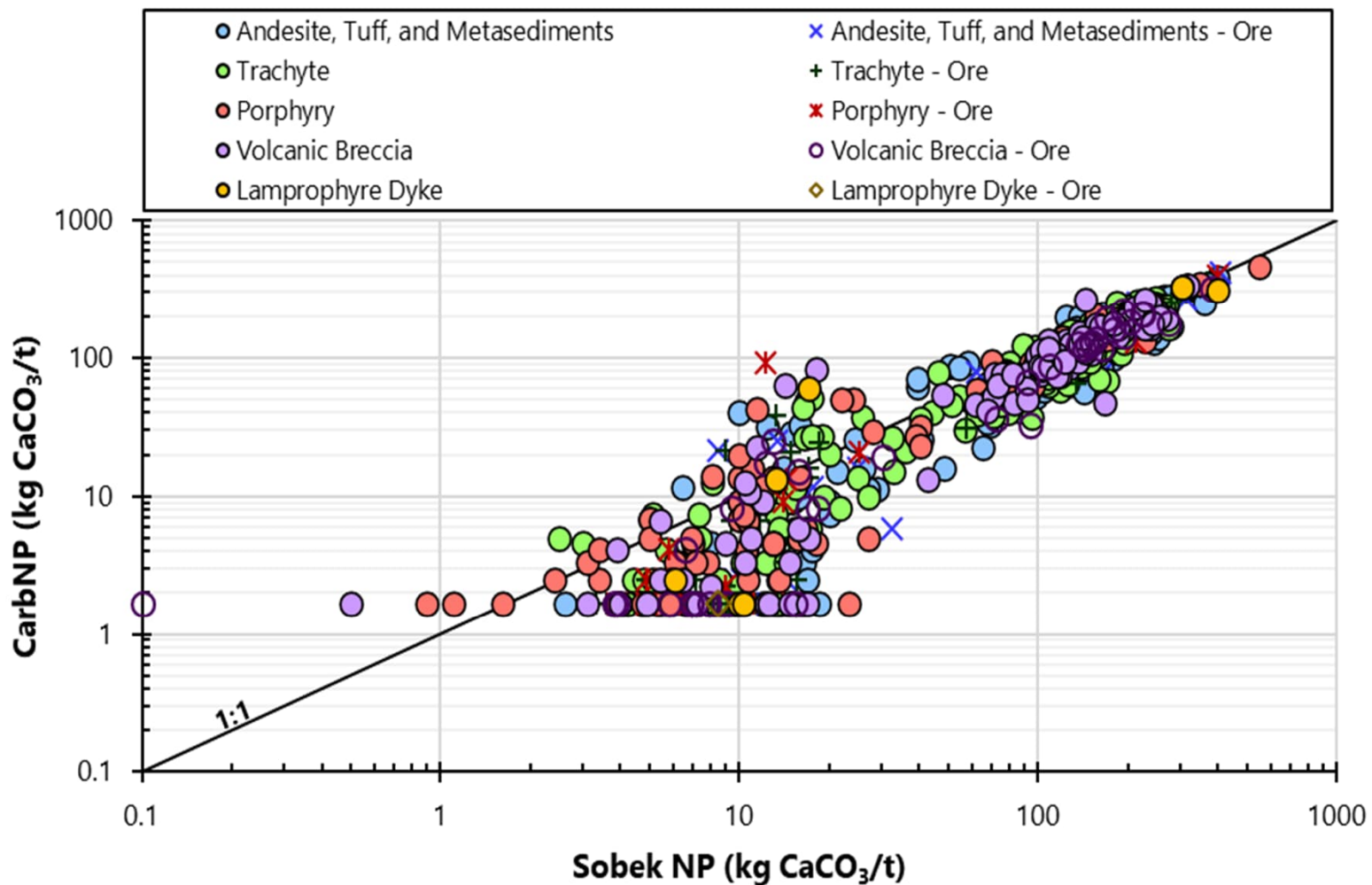
Date: Feb. 2025

Project: ONS2104

By: AK, KG

Figure 4-3

CarbNP vs. Sobek NP - Lithology



Classification of mine rock and ore-grade materials based on a cutoff grade of 0.4 g/t Au.

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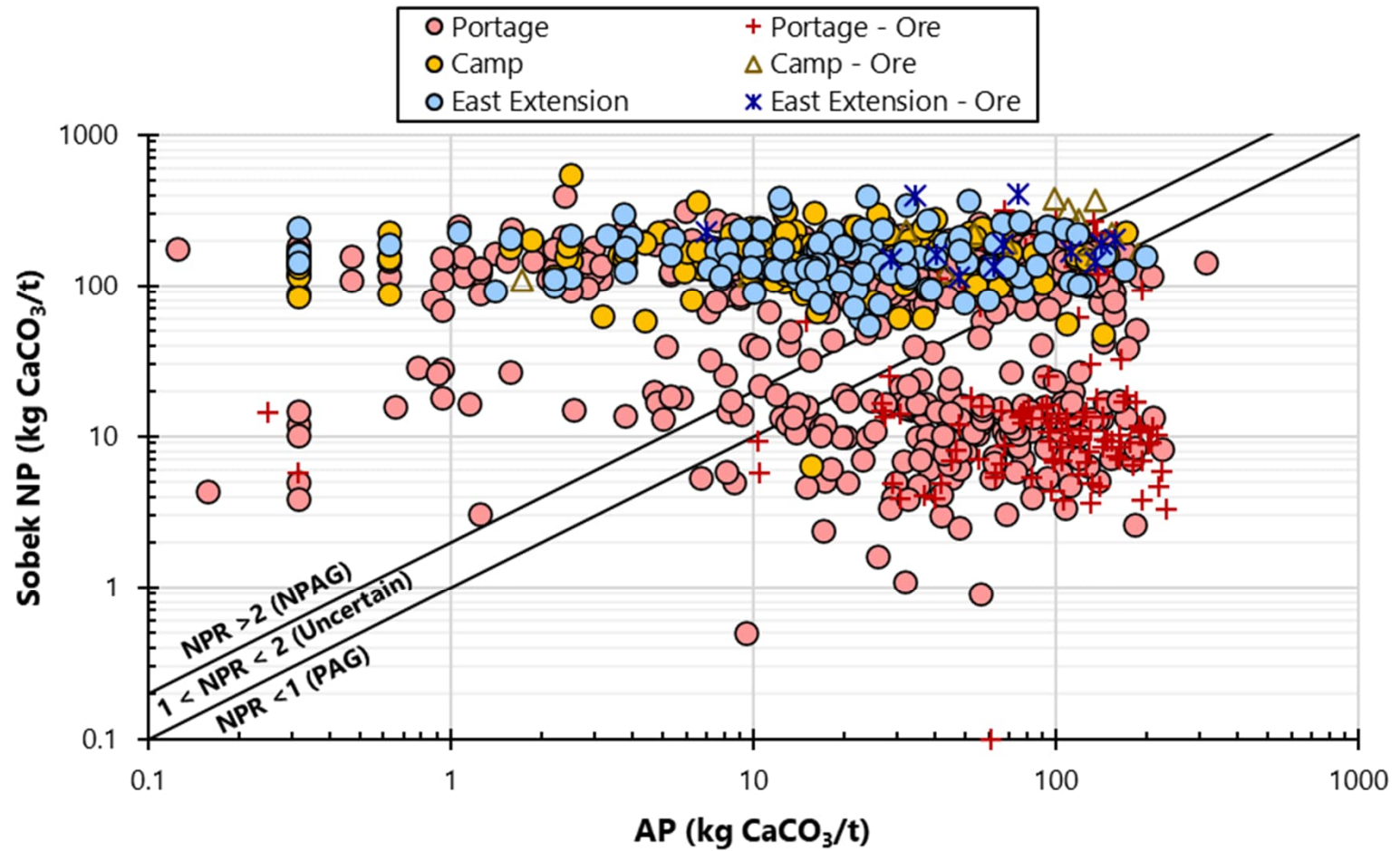
Date: Feb. 2025

Project: ONS2104

By: AK, KG

Figure 4-4

NP vs. AP - Zone



Classification of mine rock and ore-grade materials based on a cutoff grade of 0.4 g/t Au.

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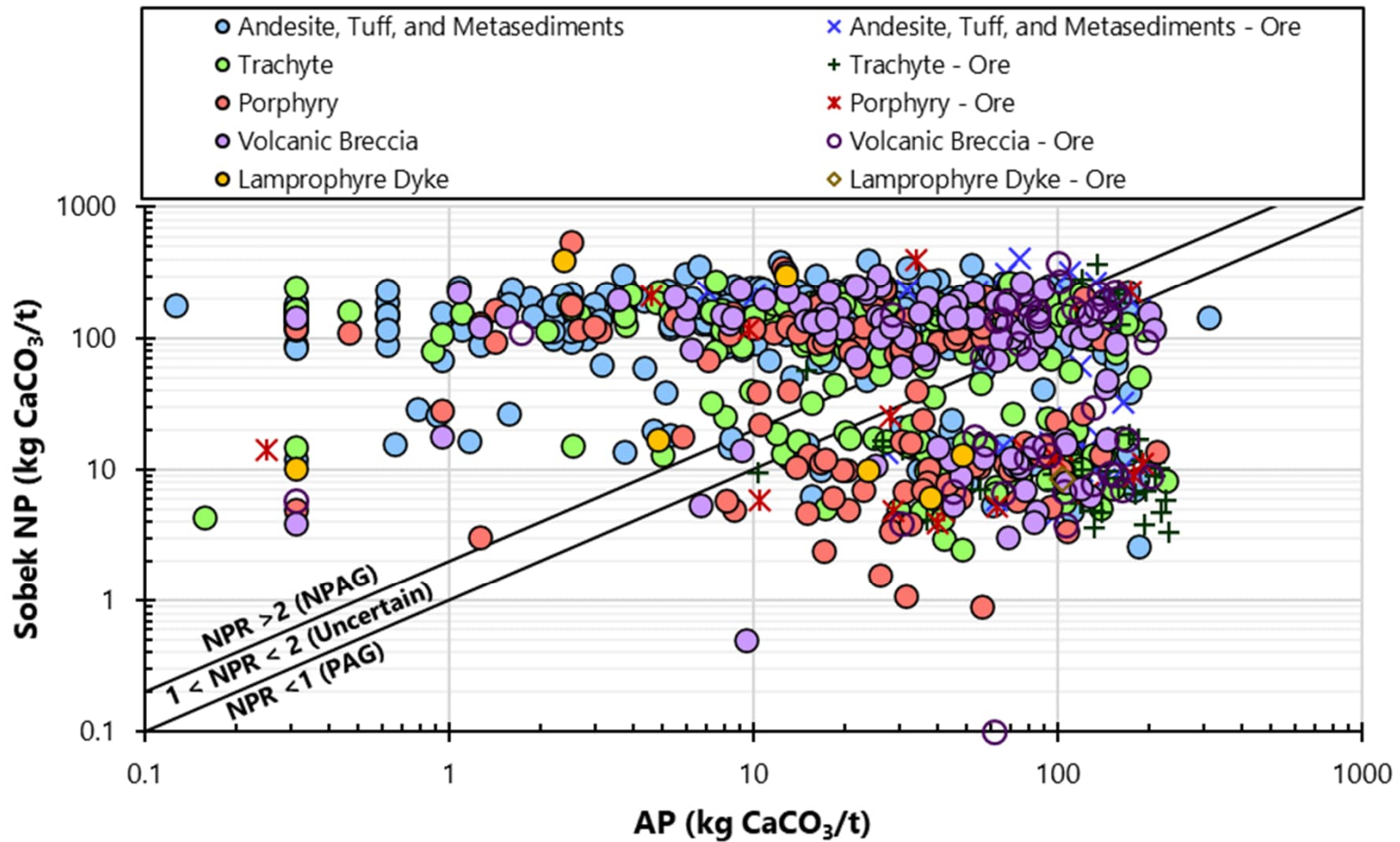
Date: Feb. 2025

Project: ONS2104

By: AK, KG

Figure 4-5

NP vs. AP - Lithology



Classification of mine rock and ore-grade materials based on a cutoff grade of 0.4 g/t Au.

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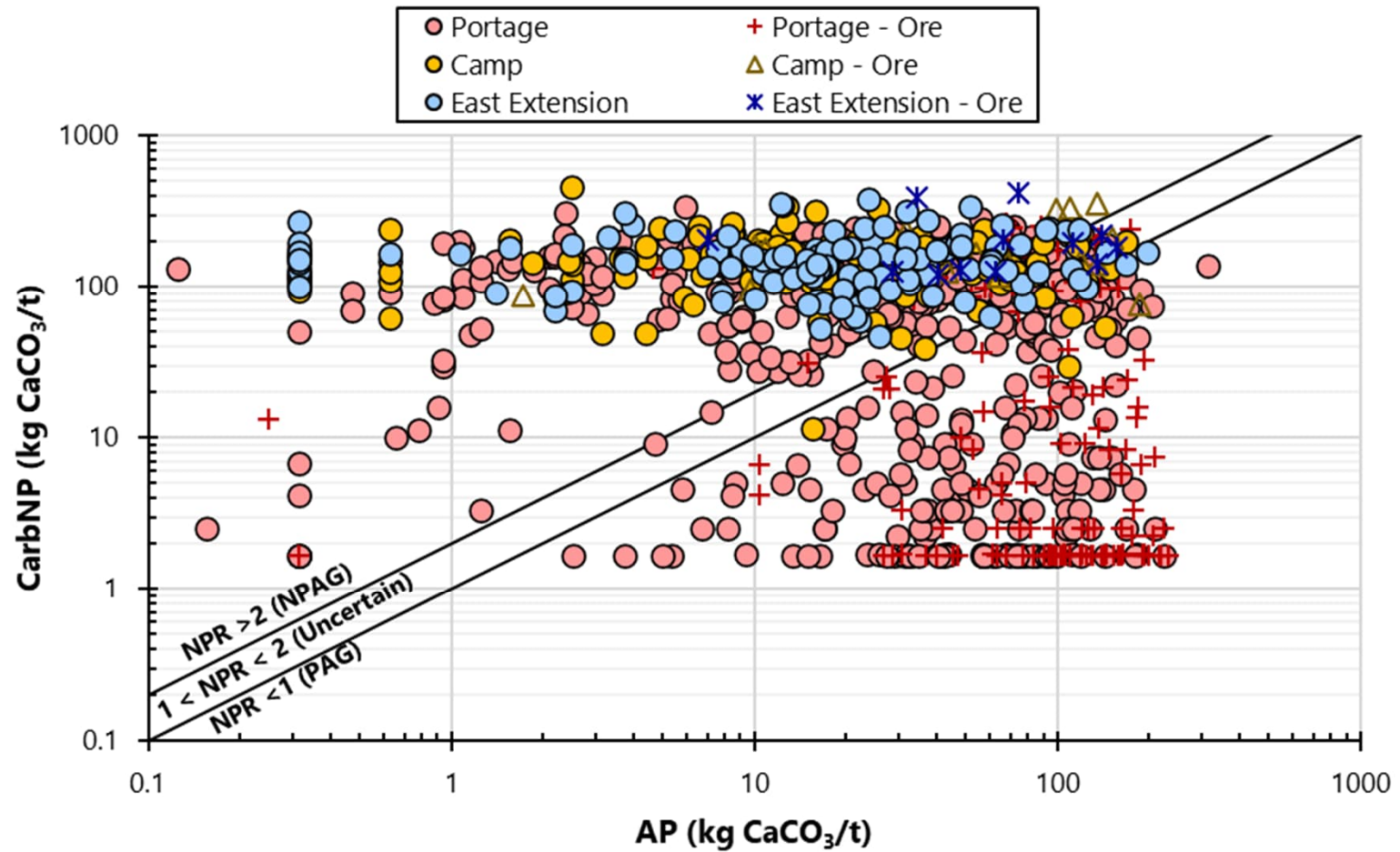
Date: Feb. 2025

Project: ONS2104

By: AK, KG

Figure 4-6

CarbNP vs. AP - Zone



Classification of mine rock and ore-grade materials based on a cutoff grade of 0.4 g/t Au.

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Red Lake District, Ontario



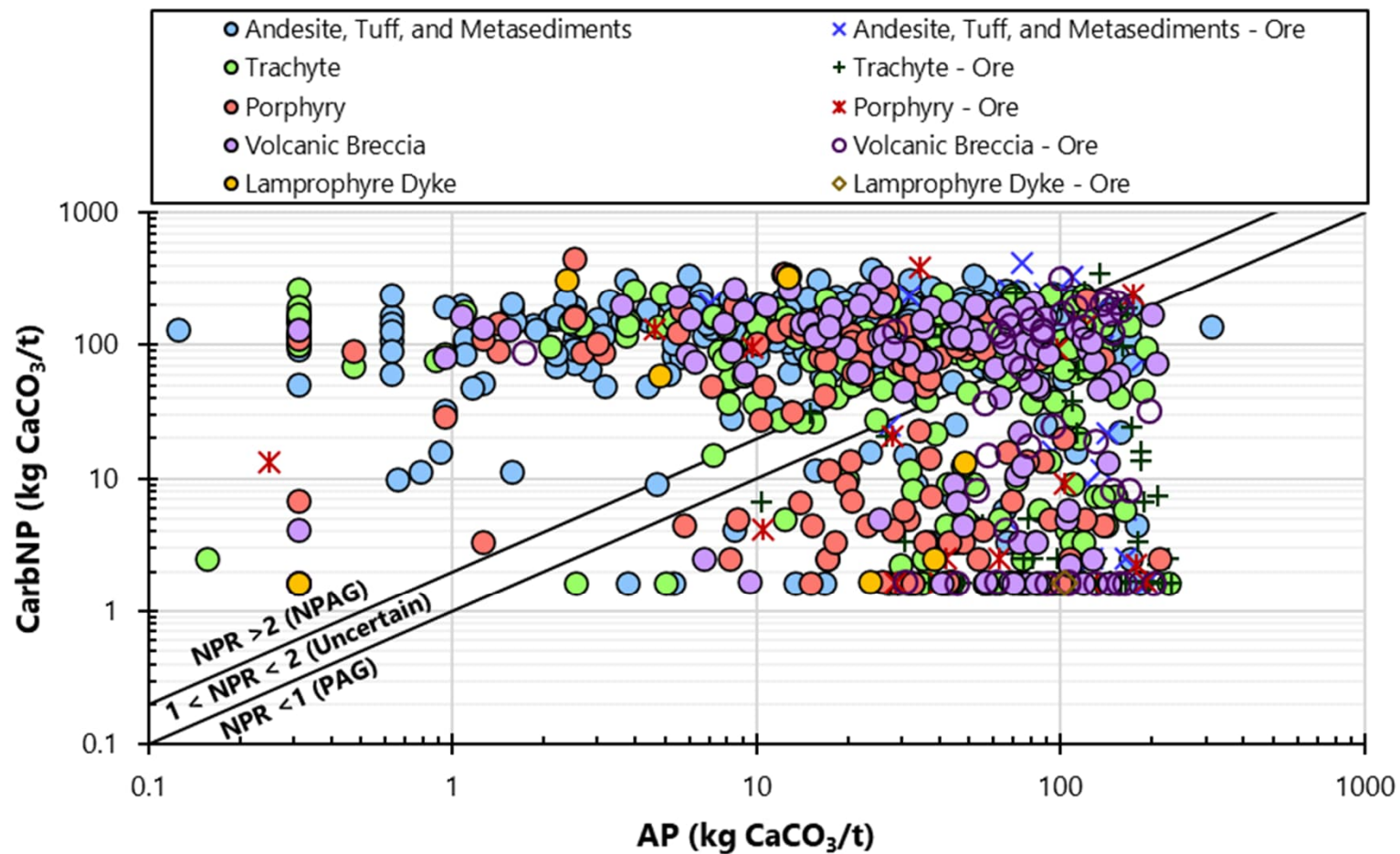
Date: Feb. 2025

Project: ONS2104

By: AK, KG

Figure 4-7

CarbNP vs. AP - Lithology



Classification of mine rock and ore-grade materials based on a cutoff grade of 0.4 g/t Au.

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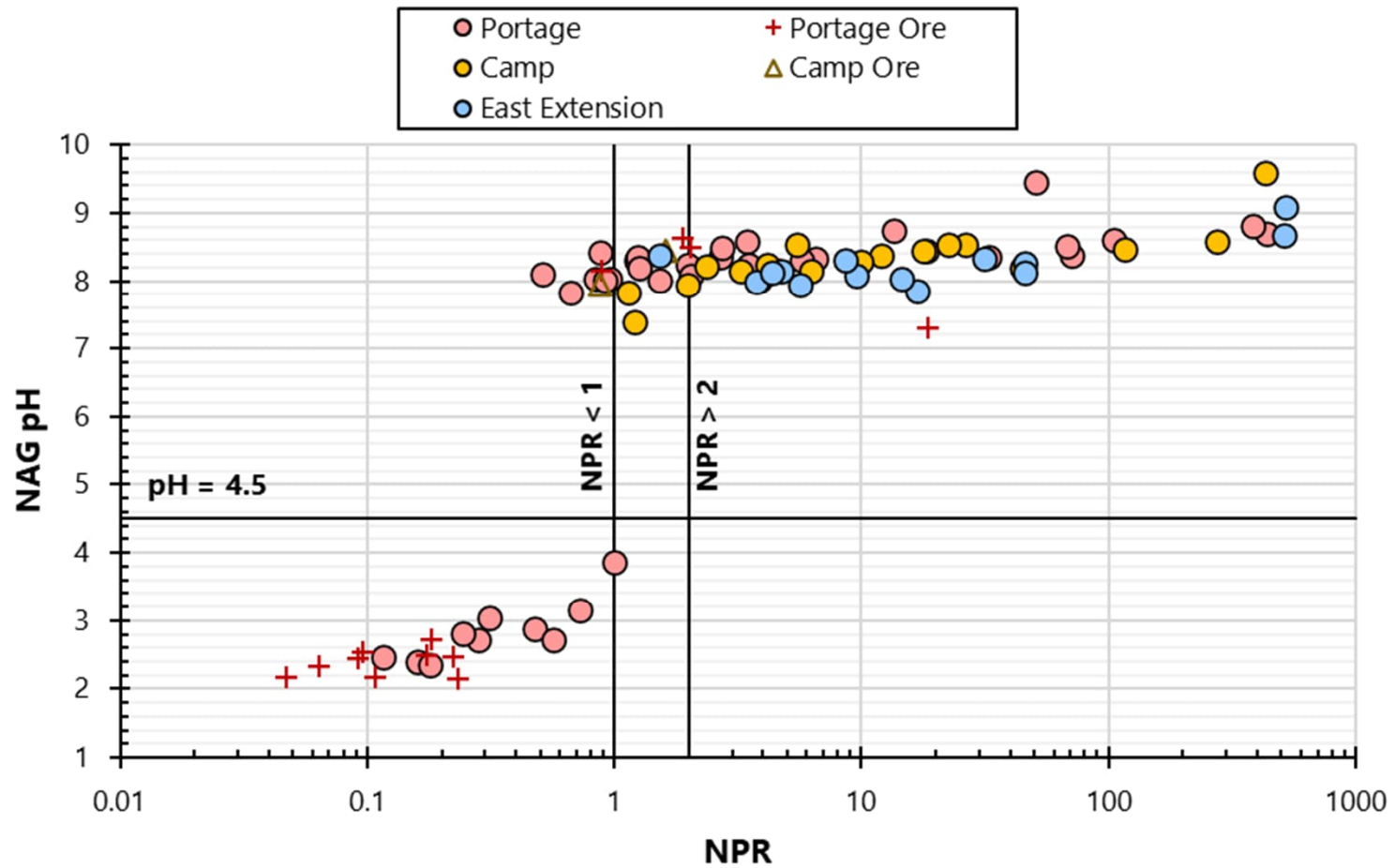
Date: Feb. 2025

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By: AK, KG

Figure 4-8

NAG pH vs. NPR - Zone



Classification of mine rock and ore-grade materials based on a cutoff grade of 0.4 g/t Au.

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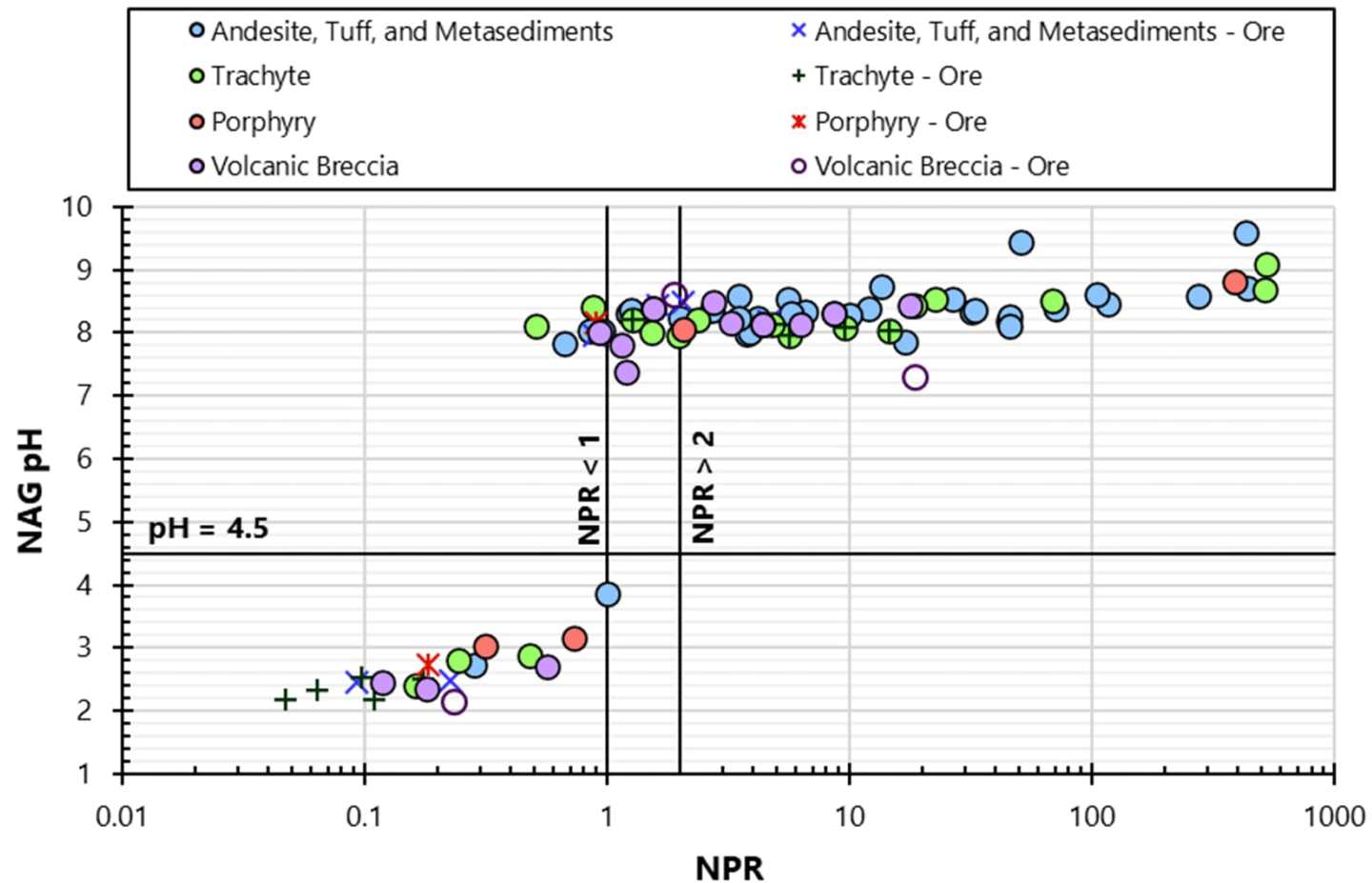
Date: Feb. 2025

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By: AK, KG

Figure 4-9

NAG pH vs. NPR - Lithology



Classification of mine rock and ore-grade materials based on a cutoff grade of 0.4 g/t Au.

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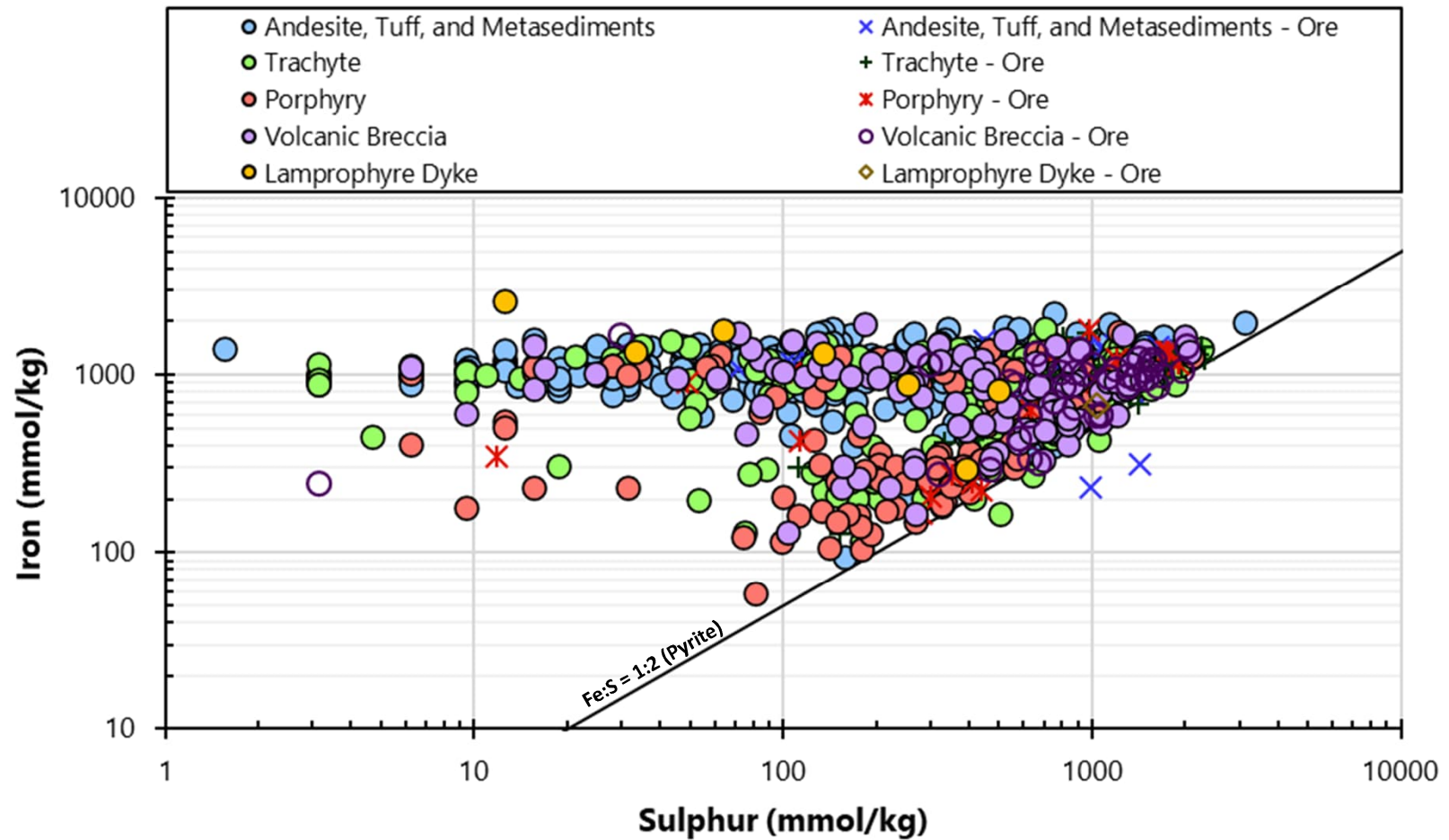
Date: Feb. 2025

Project: ONS2104

By: AK, KG

Figure 4-10

Iron vs. Sulphur Content - Lithology



Classification of mine rock and ore-grade materials based on a cutoff grade of 0.4 g/t Au.

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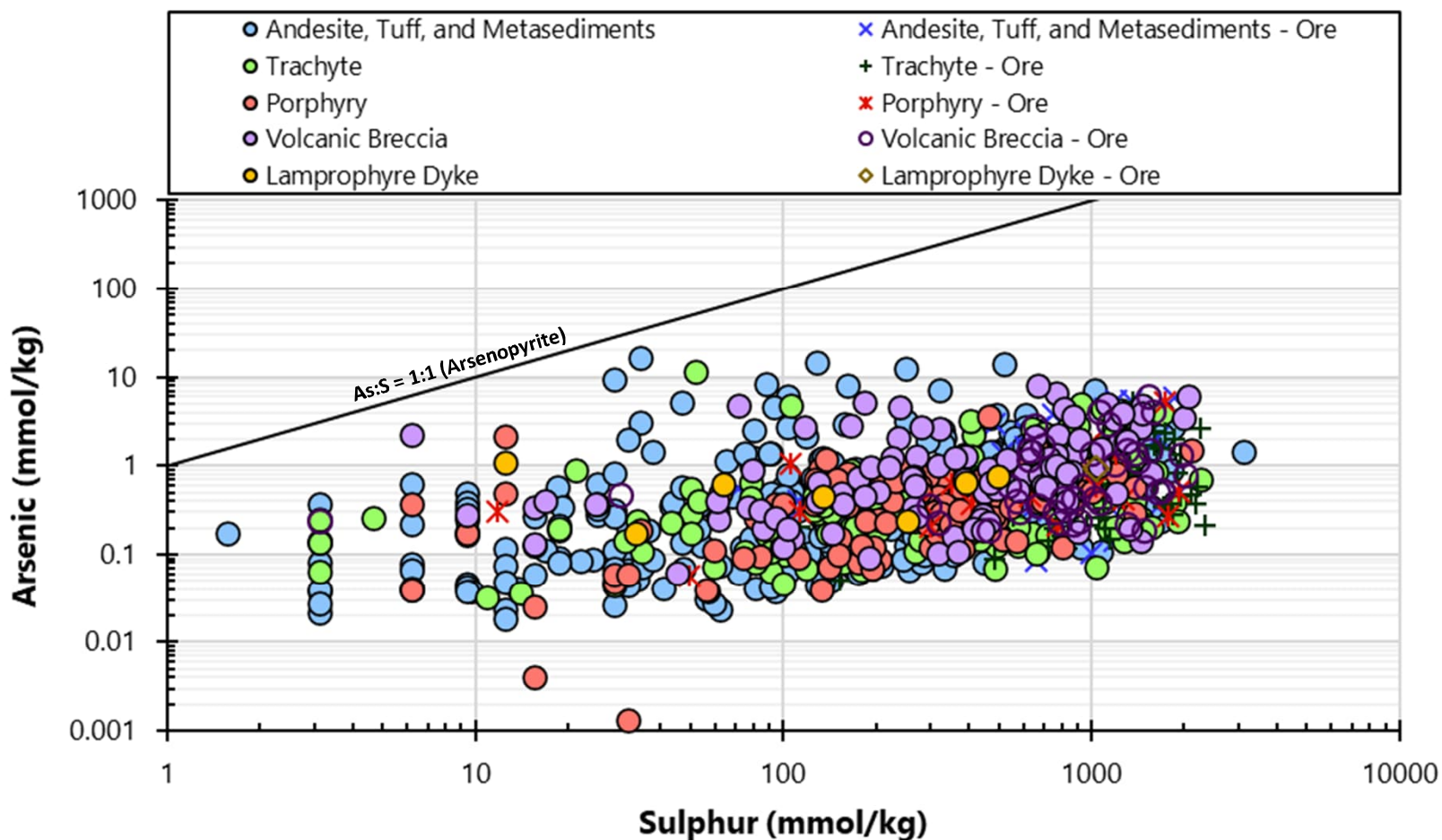
Date: Feb. 2025

Project: ONS2104

By: AK, KG

Figure 4-11

Arsenic vs. Sulphur Content - Lithology



Classification of mine rock and ore-grade materials based on a cutoff grade of 0.4 g/t Au.

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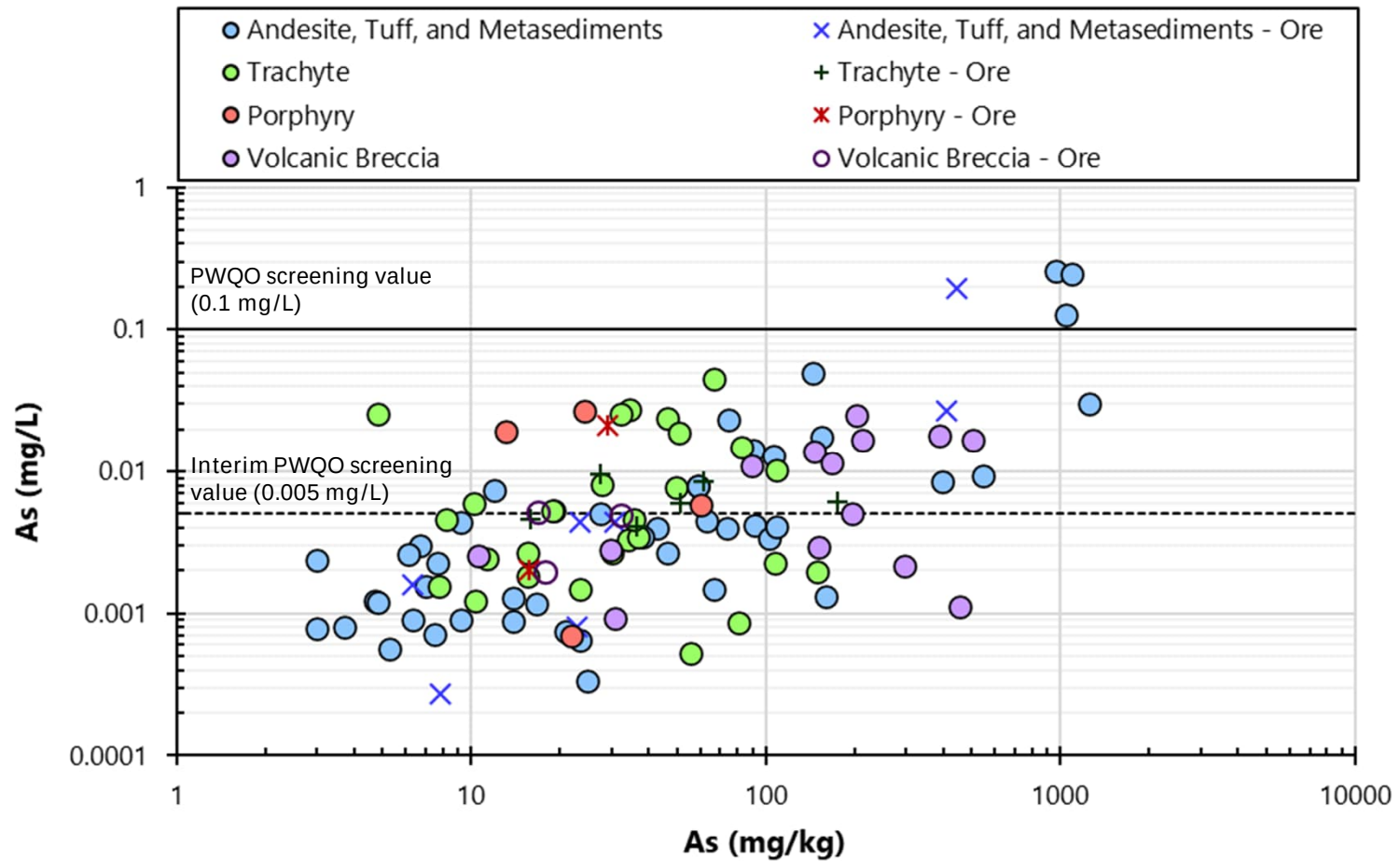
Date: Feb. 2025

Project: ONS2104

By: AK, KG

Figure 4-12

SFE Leachable vs. Solid Arsenic Content



Classification of mine rock and ore-grade materials based on a cutoff grade of 0.4 g/t Au.

Screening values are for comparison purposes only and hold no regulatory significance.

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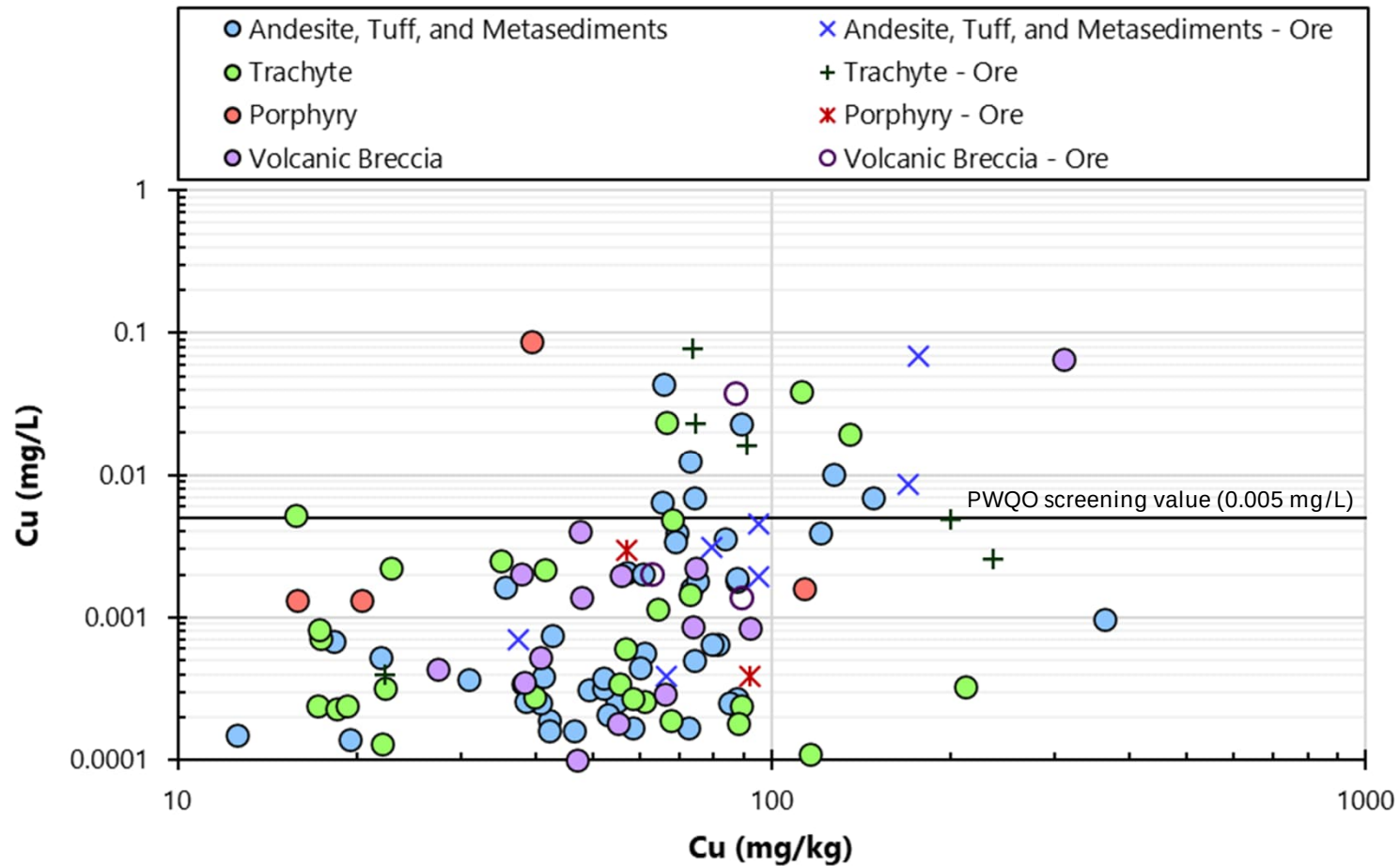
Date: Feb. 2025

Project: ONS2104

By: AK, KG

Figure 4-13

SFE Leachable vs. Solid Copper Content



Solid symbols represent mine rock samples. Open symbols represent ore-grade samples.

Classification of mine rock and ore-grade materials based on a cutoff grade of 0.4 g/t Au.

Screening values are for comparison purposes only and hold no regulatory significance.

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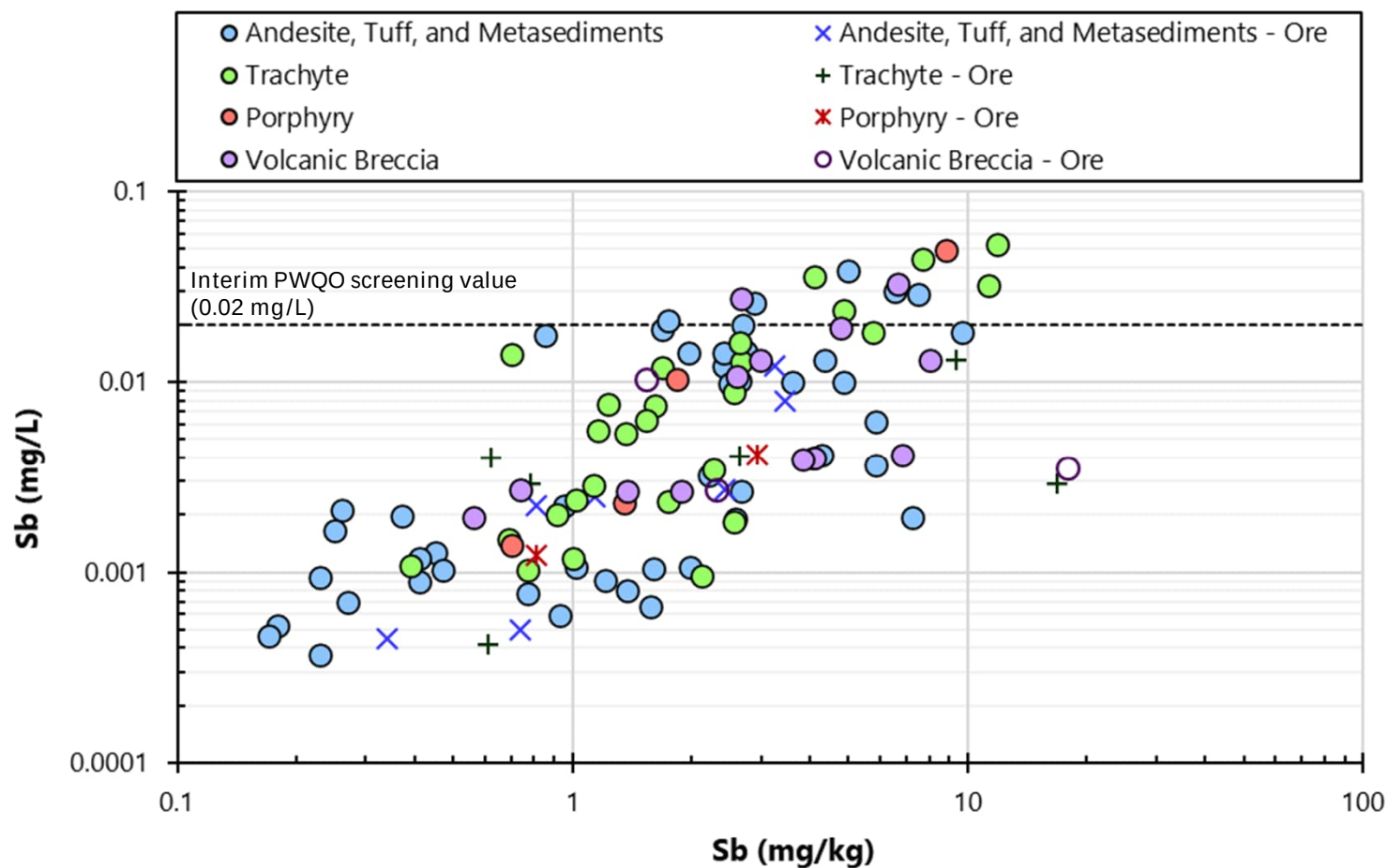
Date: Feb. 2025

By: AK, KG

Project: ONS2104

Figure 4-14

SFE Leachable vs. Solid Antimony Content



Solid symbols represent mine rock samples. Open symbols represent ore-grade samples.

Classification of mine rock and ore-grade materials based on a cutoff grade of 0.4 g/t Au.

Screening values are for comparison purposes only and hold no regulatory significance.

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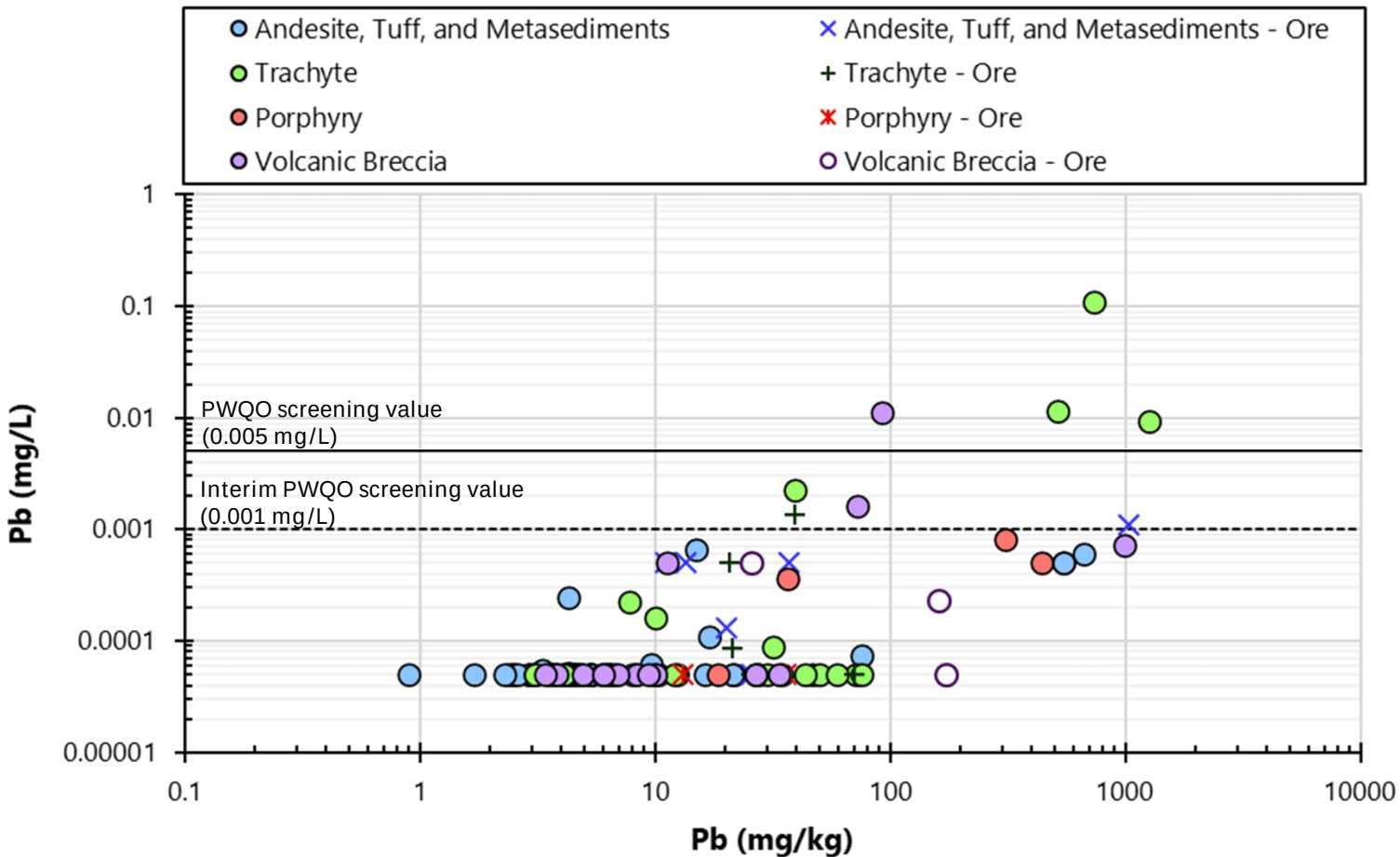
Date: Feb. 2025

Project: ONS2104

By: AK, KG

Figure 4-15

SFE Leachable vs. Solid Lead Content



Solid symbols represent mine rock samples. Open symbols represent ore-grade samples.

Classification of mine rock and ore-grade materials based on a cutoff grade of 0.4 g/t Au.

Screening values are for comparison purposes only and hold no regulatory significance.

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Date: Feb. 2025

By: AK, KG

Project: ONS2104

Figure 4-16

5.0 KEY FINDINGS

5.1 Acid Rock Drainage Potential

Sulphur concentrations in the samples ranged from below detection (i.e., 0.005%) to 10%. Mine rock samples generally had lower sulphur contents (median 0.9% sulphur) than samples classified as ore-grade materials (median 3% sulphur), however, numerous mine rock samples had high sulphur contents, similar to ore-grade materials. Samples from the Portage Zone generally had higher sulphur contents (median of 1.2% in the mine rock and 3.3% in ore-grade materials) than samples from the East Extension Zone (median 0.60% in the mine rock and 2.1% for ore-grade materials) and Camp Zone (median 0.5% and 2.2% in the mine rock and ore-grade materials, respectively).

Sulphide represented the predominant sulphur species in the samples. Pyrite was the only sulphide mineral present in the samples based on mineralogical testing and overall geologic observations for the Project.

The neutralization potential content of the samples was variable, ranging from -1 to 546 kg CaCO₃/t (median 126 kg CaCO₃/t) for mine rock samples and 0.10 to 407 kg CaCO₃/t (median 16 kg CaCO₃/t) for the ore-grade samples. The samples formed two distinct groups based on their NP content, whereby one group of samples had a low NP content (approximately 10 kg CaCO₃/t, ranging from -1 to 20 kg CaCO₃/t) and the other group of samples had a higher NP content (approximately 200 kg CaCO₃/t, ranging from approximately 50 kg CaCO₃/t to 500 kg CaCO₃/t).

- Carbonate neutralization potential was typically similar to or slightly lower than the neutralization potential content for samples with a higher NP content (e.g., NP >50 kg CaCO₃/t), indicating that most of the NP was present as carbonate minerals in these samples. Mineralogical testing confirmed the presence of calcite and dolomite.
- The samples with lower NP content (e.g., NP <20 kg CaCO₃/t) generally had low levels of CarbNP (<10 kg CaCO₃/t), suggesting that non-carbonate minerals comprised most of the NP in these samples. A few samples with a low NP content had notably elevated levels of carbonate NP, suggesting that these samples may contain non-net neutralizing carbonate minerals. Mineralogical testing identified the presence of low levels of siderite in some samples.
- Overall, the low NP content group of samples were almost exclusively from the Portage Zone, whereas the higher NP content group included samples from the Portage, East Extension, and Camp Zones. Samples of the andesite, tuff, and metasediments rock type were generally among the higher NP group, however, there were generally no consistent trends between NP content and rock type. Geospatial factors governing the NP content of the rock from the various Zones is not currently well understood. At present, it is hypothesized that the low NP rock from the Portage Zone is associated with the porphyry-style mineralization and related advanced argillic alteration unique to this Zone of the deposit, with the higher NP rock from the Portage, East Extension, and Camp Zones associated with the lode gold / epithermal gold vein style mineralization in these Zones.

Over half of the samples (54%) from the Portage Zone were classified as PAG (NPR <2). This included 46% of the mine rock samples and 85% of the ore-grade samples. Approximately 30% of these samples had low levels of NP (e.g., NP < 10 kg CaCO₃/t) and have the potential for rapid acid onset following exposure.

Most mine rock samples from the East Extension (89%) and Camp (84%) Zones were classified as NAG (NPR >2). 67% and 78% of ore-grade samples from the East Extension and Camp Zones were classified as NAG (NPR >2) respectively.

Net acid generation pH test results were consistent with ABA test results for most samples. However, some samples (22% of the tested samples) were classified as NAG by the net acid generation pH test and PAG by ABA. These samples typically had high levels of sulphur (i.e., >2% sulphur) and their classification as NAG may be a result of incomplete oxidation of sulphur in the single addition net acid generation test.

5.2 Metal Leaching

The elemental content of samples was screened against ten times the average crustal abundance values (Price 1997). Samples with elemental concentrations greater than these screening values are considered to be enriched in those elements. The results of this analysis identified that the concentration of most metals were below ten times crustal abundance screening values, except for several metals including arsenic, selenium, molybdenum, silver, antimony, lead and cadmium.

Most mine rock samples (70%) and ore-grade samples (80%) had arsenic concentrations greater than the screening value for arsenic. In general arsenic concentrations were in higher in samples from the East Extension Zone and Camp Zone compared to the Portage Zone. Overall arsenic concentrations were not notably elevated in the samples, with median concentrations on the order of 30 mg/kg and up to 1,200 mg/kg.

Approximately 30% of the mine rock samples had concentrations of selenium, molybdenum, silver and antimony that were greater than the respective screening values for these elements. On the order of 75 to 80% of the ore-grade samples were enriched in selenium, molybdenum, and silver, whereas 35% of the ore-grade samples were enriched in antimony. Less than 10% of the samples were enriched in lead and cadmium, and there were isolated occurrences (<5% of samples) of enrichment of mercury, tungsten, chromium, copper, thallium, uranium, and zinc in the samples.

SFE leachate results indicated that arsenic may be a parameter of potential interest under short term neutral leaching conditions, with approximately 40% of the samples being higher than the interim PWQO value for arsenic when compared for screening purposes. Few samples (4%) had arsenic concentrations greater than the PWQO value. Several other metals including antimony, cobalt, copper, cadmium, and lead have concentrations greater than their respective PWQO screening values in the SFE leachates for approximately 10 to 20% of the samples. Kinetic testing is underway to provide further information on the potential for the release of arsenic and other metals from the rock (Appendix K-1.3).

Net acid generation leachate results indicated that aluminum, cadmium, chromium, cobalt, copper, iron, lead, nickel, silver, thallium, uranium, vanadium, and zinc may be of potential interest under acidic leaching conditions.

6.0 CLOSING

This baseline static geochemical testing report (Rev 2) was prepared for First Mining Gold Corp. by WSP. The quality of information, conclusions and scheduling estimates contained here is consistent with the level of effort involved in WSP's services and based on 1) information available at the time of preparation; 2) data supplied by outside sources; and 3) the assumptions, conditions and qualifications set forth in this report.

Yours sincerely,

WSP Canada Inc.

Prepared by:

Original Signed

Anna Klein, M.Sc., P.Geo.
Geochemist

Original Signed

Kristen Gault, M.Sc., P.Geo.
Technical Director, Geochemistry

Reviewed by:

Original Signed

Steve Sibbick, M.Sc., P.Geo.
Senior Technical Director

Original Signed

Derrick Moggy, B.Sc., E.P.
Technical Director, Impact Assessment

7.0 REFERENCES

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Appendix A

Analytical Methods

A full summary of analytical methods used to generate data for this report are outlined below. Laboratory certificates of analysis are provided in Appendix E.

ACID BASE ACCOUNTING

The most significant risk factor for metal leaching is ARD since metal loads and mobility for many elements increase dramatically at low (acidic) pH. The most common source of ARD is oxidation of sulphide-bearing rock. The accepted approach for assessing future ARD risk is acid base accounting (ABA). ABA assesses the potential for a sample to generate acidity by determining the balance between acid producing (e.g., iron sulphide) and neutralizing minerals in a sample.

ABA testing includes a number of complementary tests as described below. Ultimately, the ARD potential of a sample is determined by measuring the sample's neutralization potential (NP) and acid potential (AP) through standardized testing and assumptions (MEND 2009). The ratio of the NP to the AP is referred to as the neutralization potential ratio (NPR). NPR values are assessed on the criteria provided in Table A-1 as identified in MEND (2009). For initial screening for Springpole, the threshold separating potentially acid-generating (PAG) rock from non-potentially acid-generating (NPAG) rock was an NPR value of 2. This value is generally accepted as industry best practice.

Table A-1: ARD Classification based on ABA Testing

ARD Classification ^(A)	Screening Criteria	Implications
PAG	NPR <2	Materials are likely acid generating
Uncertain	NPR 1-2	Acid generating potential of the material is uncertain.
NPAG	NPR >2	Materials have a low probability of becoming acid generating

(A) MEND 2009

PASTE PH

Paste pH is a method used to assess the current balance of acidity / alkalinity of a sample. The paste pH is measured from the supernatant following mixing of one part pulverized sample and one part deionized water. Analysis of pH is useful for estimating weathering and leaching conditions and detecting samples with no reactive neutralizing minerals or a surplus of acidic soluble constituents. pH is a principal factor in both primary mineral reaction rates and secondary mineral solubility and therefore can have a large effect on drainage chemistry. Solid sample pH values measured by most laboratories are reported as paste pH and are measurements made on the mixtures of water and pulverized sample.

FORMS OF SULPHUR AND ACID POTENTIAL

Sulphur in a geologic sample can be represented in several forms, including sulphide, acid-leachable sulphate, acid-insoluble sulphate, organic sulphur, and elemental sulphur. ABA testing for Springpole consisted of the analysis of total sulphur, acid-leachable sulphate sulphur, and sulphide sulphur. Total sulphur in the samples was determined by a Leco analyser. Sulphate sulphur was determined by dilute hydrochloric acid digestion and colorimetry. Sulphide sulphur was determined by difference (total sulphur minus sulphate sulphur). Acid Potential (AP) is a measure of a samples' potential to generate acidity from sulphur-bearing minerals and is generally attributed to the oxidation of sulphide minerals. The Maximum Potential Acidity (MPA) is a more conservative term that assumes all sulphur in a sample is available to generate acidity. For this work, AP was determined using the calculated sulphide sulphur value (determined by difference between total sulphur and sulphate analyses).

FORMS OF NEUTRALIZATION POTENTIAL

Neutralization Potential (NP) is a measure of the ability of a sample to neutralize acid. Two complimentary methods were used to assess the sample NP; namely, the Sobek method and measurement of carbonate carbon based on the analysis of total inorganic carbon. The Sobek NP method (hereafter NP) measures the ability of the sample to neutralize a known volume of acid for a short exposure period. Measurement of total inorganic carbon (by hydrochloric leach and Leco analyser) was used to determine carbonate neutralization potential of the samples (hereafter Carb NP).

For samples with only calcium carbonate minerals present (e.g., calcite and dolomite), Carb NP is a measure of the most readily available neutralization potential in a sample. However, Carb NP may overestimate available neutralization potential when iron carbonates such as siderite (FeCO_3) and ankerite ($\text{Ca(Fe,Mg,Mn)(CO}_3)_2$) are present. The iron carbonate minerals can be slower to react and the iron fractions of these minerals (approximately 100% of siderite and 50% of ankerite) provide no net acid neutralization capacity under oxidizing conditions. Thus, careful interpretation of neutralization potential results is required. The type of carbonate minerals can be supported by mineralogical analysis where necessary (e.g., R-XRD).

NEUTRALIZATION POTENTIAL RATIO

The ratio of NP/AP (NPR) is a widely accepted criterion to characterize the potential of geologic materials to produce ARD. Values less than one indicated that the AP exceeds NP, and values greater than one indicate that a sample has excess NP. As previously described, an initial screening value separating PAG rock from NPAG is an NPR value of 2. Values of NPR between 1 and 2 are considered to have uncertain acid generating potential, whereas rock with $\text{NPR} < 1$ is considered to be likely acid generating.

CarbNP/AP (or Carb NPR) is a similar measure to NPR but is based on the carbonate content of the sample. In the absence of iron carbonates, this generally provides more conservative screening guidance for PAG rock, by assuming the only available neutralization potential is from calcium and magnesium carbonates. If iron carbonates are present, then this ratio may overestimate the calcium and magnesium carbonates. If iron carbonates are present, then this ratio may overestimate the effective CarbNP and lead to incorrect categorization of PAG rock.

NET ACID GENERATION TEST

Following completion of ABA and metals analysis, a subset of samples was tested by more detailed static testing methods including single-addition NAG testing.

The NAG test is a complimentary test to ABA which provides an assessment of the potential of a sample to generate acid (AMIRA 2002). NAG tests use hydrogen peroxide to rapidly oxidize sulphide minerals in a sample and determine if a sample has enough neutralization capacity to buffer the acidity generated during sulphide oxidation. Approximately 2.5 grams (g) of pulverized sample was reacted with 250 millilitres (mL) of 15% hydrogen peroxide at room temperature until effervescence ceased. The sample was then heated for a minimum of two hours and boiled

rapidly for several minutes to decompose the remaining peroxide. Deionized water was added to the sample volume to maintain a volume of 250 mL. The resulting pH of the solution is called the NAG pH.

Values for NAG pH greater than 4.5 indicate that a sample has little potential to produce net acidity in the future, whereas values less than 4.5 suggest that the sample has the potential to produce net acidity and ARD at some point in the future (AMIRA 2002). The NAG test results are reviewed in conjunction with the ABA test results to confirm sample classification

METALS / ELEMENTAL CONTENT

An understanding of the minor and trace element characteristics of the rock mass being assessed is important since it is enhanced metal release and mobility that is the primary concern of ARD. In addition, certain elements may also exhibit leaching under neutral drainage conditions.

AQUA REGIA DIGESTION WITH ICP-MS/OES

Elemental analysis was used to quantify the metals by aqua regia digestion followed by an ICP-MS/OES scan. Aqua regia digestion is considered a near total digestion for most minor and trace elements, since most minerals in the rocks are dissolved (including sulphides and carbonates), with the exception of some resistant minerals such as silicates that may only be partially digested. Dissolution of environmentally significant metal phases is generally achieved by this technique.

DATA SCREENING

Chemical extraction and analysis is used to quantify the concentration of elements in samples but does not provide a direct assessment of metal leaching potential. There are no regulatory standards that apply directly to the elemental content of mine rock or ore-grade materials in relation to a risk of metal leaching. In the absence of defined threshold values, the elemental content of the collected mine rock and ore-grade samples was qualitatively evaluated against the average continental crust values presented by Price (1997). For screening purposes, samples with more than 10x the average crustal abundance for the given element were considered to be enriched. Elemental content testing and the above screening approach holds no regulatory significance and does not provide a direct assessment of mine drainage quality.

LEACHABLE METALS

In addition to assessing possible future metal leaching by identifying the risk of ARD, the risk of short-term metal leaching has been further assessed by completion of empirical leach testing. For Springpole, shake flask extraction (SFE; MEND 2009) and NAG leachate testing (AMIRA 2002) was completed on a subset of samples. The selected samples generally included major project lithologies. A range of elemental content values were also included in the sample set tested by short term leaching tests.

SHAKE FLASK EXTRACTION

Shake Flask Extraction (SFE) testing is used to assess the potential release of soluble metals during the initial stages of weathering. For Springpole, the SFE test was conducted using a 3:1 deionized water to solid ratio agitated for 24

hours, as described in MEND (2009). The leachates were analysed for pH, conductivity, hardness, sulphate, and dissolved metals.

NAG LEACHATE

Analysis of the leachate from the NAG pH test described above was also completed to identify potential parameters which may be of interest for mine rock under net-acidic conditions. These results provide only a total metal release under complete oxidation of the sulphide content of a sample and should not be interpreted as a direct indicator of water quality. The leachates were analysed for pH, conductivity, hardness, sulphate, and dissolved metals.

DATA SCREENING

For screening purposes, leachable metals data were reviewed in relation to Provincial Water Quality Objective (PWQO) values for the protection of aquatic life in receiving waters. Screening of results in comparison of PWQO included the interim as well as prescribed (in-place) values. PWQO guidelines, which are related to the pH, hardness, and alkalinity of receiving water, were based on the most conservative values, as information about receiving environments was unavailable at the time of report preparation. Parameters that were greater than their respective PWQO values may be identified as parameters of potential interest. However, it is recognized that leachate concentrations produced by empirical laboratory tests like SFE, and NAG leachate testing imply neither compliance nor non-compliance with the specified standard or objective, and do not directly represent mine water quality.

MINERALOGY

Mineralogy of mine rock and ore-grade materials is fundamental to the understanding of ML/ARD potential. As such supporting work was conducted to identify major and minor minerals, including those potentially involved in acid-generating and neutralizing reactions. Mineralogical analysis was conducted by X-Ray Diffraction with Rietveld refinement (R-XRD). This technique provides a semi-quantitative to quantitative assessment of the mineral composition of a sample. A sample split is ground to less than 10 micrometers (microns, μm) and analyzed as a random powder mount using an X-Ray diffractometer equipped with a step-scanning goniometer. The results reported represent the relative amounts of crystalline mineral phases in the mounted specimens normalized to 100%. This method is effective at identifying crystalline phases present in abundance greater than a few weight percent. With favorable peak profiles and minimal overlapping peaks, phases may be detected at less than one weight percent.

R-XRD provides information on the major and minor mineral phases in a sample, which can be used to improve the understanding of the forms of potentially acid generating and acid neutralizing minerals.

Appendix B

Static Testing Results

Table B-1. Acid Base Accounting Results

Sample ID	Classification	Final Lithology Group	Zone	Drillhole	From	To	Data Source	Paste pH	Total Sulphur ^(A)	Sulphate Sulphur ^(B)	Sulphide Sulphur ^(C)	MPA ^(D)	AP ^(E)	Sobek NP ^(F)	Fizz Rating	Total Carbon ^(G)	Total Inorganic Carbon ^(H)	CarbNP ^(I)	NPR ^(J)	CarbNPR ^(K)
Units					m	m		pH Units	%	%	%	kg CaCO ₃ /t	kg CaCO ₃ /t	kg CaCO ₃ /t	Unity	%	%	kg CaCO ₃ /t	NP/AP	CarbNP/AP
ABA-071	Mine Rock	And_tuf_metaseds	East Extension	BL-0013	2.44	3.66	MDAG (2012)	9.9	0.030	0.010	0.020	0.94	0.63	190	3	2.1	2.0	168	304	269
ABA-072	Mine Rock	And_tuf_metaseds	East Extension	BL-0013	60.96	62.18	MDAG (2012)	9.9	0.090	0.010	0.080	2.8	2.5	220	3	2.4	2.3	193	88	77
ABA-078	Mine Rock	And_tuf_metaseds	East Extension	BL-0014	2.74	4.27	MDAG (2012)	9.5	1.4	0.010	1.4	43	43	195	3	2.2	2.1	177	4.6	4.1
ABA-015	Mine Rock	And_tuf_metaseds	East Extension	BL-0054	99.67	101.35	MDAG (2012)	9.4	0.11	<0.0050	0.11	3.4	3.3	219	3	2.6	2.6	216	67	66
ABA-021	Mine Rock	And_tuf_metaseds	East Extension	BL-0054	157.95	159.41	MDAG (2012)	9.1	3.0	<0.0050	3.0	94	94	253	3	3.0	3.0	248	2.7	2.6
ABA-019	Mine Rock	And_tuf_metaseds	East Extension	BL-0054	216.26	217.11	MDAG (2012)	9.2	3.4	0.010	3.4	107	106	240	3	2.9	2.8	237	2.3	2.2
ABA-056	Mine Rock	And_tuf_metaseds	East Extension	BL-0114	50.29	51.82	MDAG (2012)	9.4	1.2	0.010	1.2	38	38	154	3	1.6	1.6	134	4.1	3.6
ABA-033	Mine Rock	And_tuf_metaseds	East Extension	BL-0223	2.59	3.66	MDAG (2012)	9.3	2.1	<0.0050	2.1	66	66	263	3	3.2	3.1	259	4.0	3.9
ABA-043	Ore-Grade Materials	And_tuf_metaseds	East Extension	BL-0223	49.38	50.9	MDAG (2012)	9.8	0.23	<0.0050	0.23	7.2	7.0	228	3	2.5	2.5	205	32	29
ABA-042	Mine Rock	And_tuf_metaseds	East Extension	BL-0223	157.58	160.58	MDAG (2012)	9.8	0.33	0.010	0.32	10	10	175	3	1.8	1.8	150	18	15
ABA-035	Mine Rock	And_tuf_metaseds	East Extension	BL-0223	343.2	344.06	MDAG (2012)	9.4	1.5	0.020	1.5	47	47	194	3	2.4	2.3	191	4.2	4.1
ABA-003	Mine Rock	And_tuf_metaseds	East Extension	BL-0266	1.22	2.62	MDAG (2012)	9.4	1.0	0.010	1.0	32	32	344	3	4.2	3.8	316	11	9.9
ABA-002	Mine Rock	And_tuf_metaseds	East Extension	BL-0266	61.57	62.79	MDAG (2012)	9.7	0.060	0.010	0.050	1.9	1.6	208	3	2.3	2.2	184	133	118
ABA-001	Mine Rock	And_tuf_metaseds	East Extension	BL-0266	106.68	107.9	MDAG (2012)	9.7	0.25	0.010	0.24	7.8	7.5	172	3	2.1	2.1	173	23	23
ABA-067	Mine Rock	And_tuf_metaseds	East Extension	BL-0370	60.56	61.39	MDAG (2012)	9.8	0.35	0.010	0.34	11	11	135	3	1.5	1.5	125	13	12
ABA-068	Mine Rock	And_tuf_metaseds	East Extension	BL-0370	118.87	119.91	MDAG (2012)	9.3	4.0	0.010	4.0	125	125	103	3	1.2	1.2	98	0.83	0.78
ABA-069	Mine Rock	And_tuf_metaseds	East Extension	BL-0370	159.41	160.63	MDAG (2012)	9.6	0.52	0.010	0.51	16	16	174	3	2.2	2.2	180	11	11
ABA-016	Ore-Grade Materials	And_tuf_metaseds	Portage	BL-0004	1.83	3.05	MDAG (2012)	8.3	2.0	0.050	1.9	62	60	178	3	2.1	2.0	164	3.0	2.7
ABA-014	Mine Rock	And_tuf_metaseds	Portage	BL-0004	60.35	61.57	MDAG (2012)	9.2	0.21	0.020	0.19	6.6	5.9	313	3	4.2	4.1	339	53	57
ABA-013	Mine Rock	And_tuf_metaseds	Portage	BL-0068	48.77	50.29	MDAG (2012)	8.9	0.040	<0.0050	0.035	1.3	1.1	147	3	1.3	1.3	105	134	96
ABA-009	Mine Rock	And_tuf_metaseds	Portage	BL-0068	159.11	160.63	MDAG (2012)	9.6	4.9	0.010	4.9	152	152	108	3	1.2	1.0	84	0.71	0.55
ABA-011	Ore-Grade Materials	And_tuf_metaseds	Portage	BL-0068	214.88	216.41	MDAG (2012)	9.5	2.2	0.010	2.2	69	69	213	3	2.4	2.1	177	3.1	2.6
ABA-007	Mine Rock	And_tuf_metaseds	Portage	BL-0068	277.06	278.59	MDAG (2012)	9.0	4.5	0.010	4.5	141	140	77	3	0.78	0.57	48	0.55	0.34
ABA-005	Mine Rock	And_tuf_metaseds	Portage	BL-0068	335.58	337.11	MDAG (2012)	6.6	5.8	0.080	5.7	180	178	70	1	0.12	0.050	4.5	0.039	0.026
ABA-038	Mine Rock	And_tuf_metaseds	Camp	BL-0098	1.83	2.35	MDAG (2012)	9.5	0.42	0.030	0.39	12	12	220	3	2.7	2.7	223	18	18
ABA-040	Mine Rock	And_tuf_metaseds	Camp	BL-0098	160.32	161.85	MDAG (2012)	9.1	0.040	0.020	0.020	1.3	0.63	154	3	1.4	1.3	109	246	175
ABA-039	Mine Rock	And_tuf_metaseds	Camp	BL-0098	221.28	222.81	MDAG (2012)	8.9	0.10	0.020	0.080	3.1	2.5	181	3	1.9	1.8	155	72	62
ABA-041	Mine Rock	And_tuf_metaseds	Camp	BL-0098	280.72	282.24	MDAG (2012)	9.0	0.17	0.030	0.14	5.3	4.4	199	3	2.0	1.9	155	45	35
ABA-046	Ore-Grade Materials	And_tuf_metaseds	Camp	BL-0102	50.6	51.51	MDAG (2012)	9.5	4.4	0.020	4.4	137	136	163	3	1.7	1.7	141	1.2	1.0
ABA-045	Mine Rock	And_tuf_metaseds	Camp	BL-0102	99.36	100.89	MDAG (2012)	9.7	0.34	0.010	0.33	11	10	232	3	2.6	2.5	207	22	20
ABA-050	Mine Rock	And_tuf_metaseds	Camp	BL-0102	160.32	161.85	MDAG (2012)	9.0	0.10	0.020	0.080	3.1	2.5	149	3	1.4	1.4	114	60	45
ABA-049	Mine Rock	And_tuf_metaseds	Camp	BL-0102	221.28	222.81	MDAG (2012)	8.9	0.080	0.010	0.070	2.5	2.2	117	3	1.0	1.0	84	53	38
ABA-053	Mine Rock	And_tuf_metaseds	Camp	BL-0103	1.22	2.44	MDAG (2012)	9.0	0.12	<0.0050	0.12	3.8	3.6	162	3	1.9	1.9	155	45	43
ABA-052	Mine Rock	And_tuf_metaseds	Camp	BL-0103	61.26	62.79	MDAG (2012)	9.6	0.30	0.020	0.28	9.4	8.8	176	3	1.8	1.7	146	20	17
ABA-051	Mine Rock	And_tuf_metaseds	Camp	BL-0103	122.22	123.75	MDAG (2012)	9.5	0.48	0.010	0.47	15	15	188	3	2.1	2.0	171	13	12
ABA-047	Mine Rock	And_tuf_metaseds	Camp	BL-0103	183.18	184.71	MDAG (2012)	9.1	0.42	0.030	0.39	13	12	149	3	1.5	1.5	125	12	10
ABA-048	Mine Rock	And_tuf_metaseds	Camp	BL-0103	243.84	244.66	MDAG (2012)	9.6	3.8	0.020	3.7	117	117	154	3	1.6	1.5	130	1.3	1.1
ABA-032	Mine Rock	And_tuf_metaseds	Camp	BL-0184	12.1	12.65	MDAG (2012)	8.9	0.53	0.020	0.51	17	16	308	3	3.7	3.8	316	19	20
ABA-084	Mine Rock	And_tuf_metaseds	Camp	BL-0284	11.28	12.19	MDAG (2012)	8.7	0.050	0.030	0.020	1.6	0.63	88	3	0.77	0.74	61	141	98
ABA-085	Mine Rock	And_tuf_metaseds	Camp	BL-0284	50.29	50.9	MDAG (2012)	8.8	0.26	0.010	0.25	8.1	7.8	150	3	1.9	1.8	155	19	20
ABA-086	Mine Rock	And_tuf_metaseds	Camp	BL-0284	83.36	84.43	MDAG (2012)	9.1	<0.0050	<0.0050	<0.010	0.16	0.31	169	3	2.0	1.9	159	541	509
ABA-076	Mine Rock	And_tuf_metaseds	Camp	BL-0288	59.47	60.2	MDAG (2012)	9.1	1.3	0.010	1.3	40	40	197	3	2.2	2.1	175	4.9	4.4
ABA-077	Ore-Grade Materials	And_tuf_metaseds	Camp	BL-0288	101.5	102.5	MDAG (2012)	8.8	0.36	0.010	0.35	11	11	196	3	2.2	2.1	177	18	16
ABA-081	Mine Rock	And_tuf_metaseds	Camp	BL-0302	2.59	2.77	MDAG (2012)	8.8	1.8	0.010	1.8	58	57	243	3	2.9	2.9	241	4.2	4.2
ABA-082	Mine Rock	And_tuf_metaseds	Camp	BL-0302	23.78	24.7	MDAG (2012)	9.5	1.7	0.010	1.7	53	52	121	3	1.5	1.5	125	2.3	2.4
ABA-083	Mine Rock	And_tuf_metaseds	Camp	BL-0302	46.63	47.55	MDAG (2012)	9.6	0.030	0.010	0.020	0.94	0.63	231	3	3.0	2.9	241	370	386
ABA-059	Mine Rock	And_tuf_metaseds	Camp	BL-0307	1.22	2.41	MDAG (2012)	9.1	0.090	0.010	0.080	2.8	2.5	146	3	1.7	1.7	141	58	56
ABA-060	Mine Rock	And_tuf_metaseds	Camp	BL-0307	41.45	42.15	MDAG (2012)	9.0	1.3	0.18	1.1	41	35	192	3	2.6	2.6	214	5.4	6.1
ABA-061	Mine Rock	And_tuf_metaseds	Camp	BL-0307	79.8	80.1	MDAG (2012)	8.9	0.57	0.010	0.56	18	18	158	3	1.8	1.7	143	9.0	8.2
ABA-028	Mine Rock	And_tuf_metaseds	Camp	BL-0354	53.95	55.14	MDAG (2012)	9.6	0.29	0.020	0.27	9.1	8.4	224	3	2.7	2.7	227	27	27
ABA-029	Mine Rock	And_tuf_metaseds	Camp	BL-0354	162.76	163.68	MDAG (2012)	9.6	1.8	0.020	1.7	55	54	212	3	2.6	2.4	202	3.9	3.7
ABA-030	Mine Rock	And_tuf_metaseds	Camp	BL-0354	221.41	221.83	MDAG (2012)	8.9	0.050	0.030	0.020	1.6	0.63	153	3	1.6	1.5	127	245	204
ABA-114	Mine Rock	And_tuf_metaseds	Camp	SP11-090	204	205	MDAG (2012)	9.2	0.92	0.010	0.91	29	28	145	3	1.6	1.5	127	5.1	4.5
ABA-025	Mine Rock	And_tuf_metaseds	Portage	BL-0142	66.14	67.06	MDAG (2012)	9.5	0.10	<0.0050	0.095	3.1	3.0	181	3	2.0	1.9	157	61	53
ABA-027	Mine Rock	And_tuf_metaseds	Portage	BL-0142	118.72	119.63	MDAG (2012)	9.3	0.040	<0.0050	0.035	1.3	1.1	137	3	1.4	1.4	114	125	104
ABA-026	Mine Rock	And_tuf_metaseds	Portage	BL-0142	178.63	179.63	MDAG (2012)	9.1	0.82	0.010	0.81	26	25	197	3	2.1	1.9	157	7.8	6.2
ABA-057	Mine Rock	And_tuf_metaseds	Portage	BL-0142	292.73	293.64	MDAG (2012)	9.3	0.030	0.010	0.020	0.94	0.63	117	3	1.2	1.1	91	187	146
ABA-024	Mine Rock	And_tuf_metaseds	Portage	BL-0145	62.18	63.09	MDAG (2012)	8.3	1.1	0.010	1.1	33	33	15	1	0.12	0.11	9.1	0.45	0.27
ABA-022	Mine Rock	And_tuf_metaseds	Portage	BL-0145	120.7	121.62	MDAG (2012)	8.6	0.18	0.030	0.15	5.6	4.7	20	1	0.12	0.12	9.1	4.3	1.9
ABA-020	Mine Rock	And_tuf_metaseds	Portage	BL-0145	180.62	181.62	MDAG (2012)	8.9	0.20	0.030	0.17	6.3	5.3	119	3	1.1	1.0	84	22	16
ABA-018	Mine Rock	And_tuf_metaseds	Portage	BL-0145	242.62	243.23	MDAG (2012)	9.2	3.5	0.010	3.4	108	108	165	3	1.6	1.6	132	1.5	1.2
ABA-010	Mine Rock	And_tuf_metaseds	Portage	BL-0145	299.92	300.84	MDAG (2012)	9.5	0.19	0.010	0.18	5.9	5.6	145	3	1.0	0.99	82	26	15
ABA-008	Mine Rock	And_tuf_metaseds	Portage	BL-0145	365.76	366.67	MDAG (2012)	10	0.42	0.010	0.41	13	13	125	3	0.93	0.75	64	9.8	5.0
ABA-006	Mine Rock	And_tuf_metaseds	Portage	BL-0145	425.															

Table B-1. Acid Base Accounting Results

Sample ID	Classification	Final Lithology Group	Zone	Drillhole	From	To	Data Source	Paste pH	Total Sulphur ^(A)	Sulphate Sulphur ^(B)	Sulphide Sulphur ^(C)	MPA ^(D)	AP ^(E)	Sobek NP ^(F)	Fizz Rating	Total Carbon ^(G)	Total Inorganic Carbon ^(H)	CarbNP ^(I)	NPI ^(J)	CarbNPI ^(K)
Units					m	m		pH Units	%	%	%	kg CaCO ₃ /t	kg CaCO ₃ /t	kg CaCO ₃ /t	Unity	%	%	kg CaCO ₃ /t	NP/AP	CarbNP/AP
ABA-119	Mine Rock	And_tuf_metaseds	Portage	SP11-063	63	64	MDAG (2012)	9.2	0.060	0.010	0.050	1.9	1.6	27	2	0.15	0.13	11	17	7.3
ABA-132	Mine Rock	And_tuf_metaseds	Portage	SP11-063	123	124	MDAG (2012)	9.2	0.040	<0.0050	0.035	1.3	1.1	117	3	1.1	1.0	86	107	79
ABA-133	Mine Rock	And_tuf_metaseds	Portage	SP11-063	601.5	603	MDAG (2012)	8.9	1.5	0.16	1.4	48	43	178	3	4.4	1.2	100	42	2.4
ABA-141	Mine Rock	And_tuf_metaseds	Portage	SP11-072	4	5	MDAG (2012)	9.2	0.080	<0.0050	0.075	2.5	2.3	215	3	2.7	2.6	221	92	94
ABA-142	Mine Rock	And_tuf_metaseds	Portage	SP11-072	64	65	MDAG (2012)	9.3	2.2	<0.0050	2.2	69	69	223	3	2.7	2.7	227	3.2	3.3
ABA-166	Ore-Grade Materials	And_tuf_metaseds	Portage	SP11-072	124	125	MDAG (2012)	9.0	2.5	<0.0050	2.4	77	76	96	3	1.1	1.1	89	13	1.2
ABA-144	Mine Rock	And_tuf_metaseds	Portage	SP11-072	183	184	MDAG (2012)	9.5	1.8	<0.0050	1.8	56	56	262	3	3.5	3.4	282	4.7	5.1
ABA-167	Mine Rock	And_tuf_metaseds	Portage	SP11-076	63	64	MDAG (2012)	9.2	3.7	<0.0050	3.7	115	115	199	3	2.5	2.4	200	1.7	1.7
ABA-096	Mine Rock	And_tuf_metaseds	Portage	SP11-106	4	5	MDAG (2012)	9.6	1.8	<0.0050	1.8	56	55	123	3	1.5	1.5	127	2.2	2.3
ABA-091	Mine Rock	And_tuf_metaseds	Portage	SP11-106	64	65	MDAG (2012)	9.6	1.3	<0.0050	1.3	39	39	105	3	1.3	1.3	107	2.7	2.7
ABA-093	Mine Rock	And_tuf_metaseds	Portage	SP11-106	124	125	MDAG (2012)	9.5	1.9	0.020	1.9	60	59	147	3	1.8	1.7	141	2.5	2.4
ABA-094	Mine Rock	And_tuf_metaseds	Portage	SP11-106	182	185	MDAG (2012)	9.6	2.6	0.010	2.6	83	82	105	3	1.3	1.2	102	1.3	1.2
ABA-101	Mine Rock	And_tuf_metaseds	Portage	SP11-106	365.5	367	MDAG (2012)	8.5	1.6	<0.0050	1.6	50	50	8.0	1	0.050	0.050	4.5	0.16	0.091
009505	Mine Rock	And_tuf_metaseds	Portage	SP12-133	251.5	253.5	KCC (2020)	8.1	1.2	0.040	1.1	36	35	9.9	None	--	0.49	41	0.29	1.2
009506	Mine Rock	And_tuf_metaseds	Portage	SP12-133	103	105	KCC (2020)	9.2	0.72	0.040	0.68	23	21	235	Moderate	--	2.9	245	11	11
009508	Mine Rock	And_tuf_metaseds	Camp	SP12-132	140	142	KCC (2020)	9.1	0.49	0.050	0.44	15	14	159	Moderate	--	2.0	168	12	12
009510	Mine Rock	And_tuf_metaseds	Camp	SP12-132	4.5	6.5	KCC (2020)	8.6	0.38	0.040	0.34	12	11	172	Moderate	--	2.3	194	16	18
009511	Ore-Grade Materials	And_tuf_metaseds	Portage	SP12-131	433	435	KCC (2020)	6.7	5.3	0.030	5.2	164	163	10	None	--	0.030	2.5	0.063	0.015
009516	Mine Rock	And_tuf_metaseds	Portage	SP12-131	108	110	KCC (2020)	9.0	1.7	0.030	1.7	53	52	183	Moderate	--	2.4	202	3.5	3.9
009518	Mine Rock	And_tuf_metaseds	Camp	SP12-125	34	36	KCC (2020)	9.1	1.2	0.040	1.2	38	37	95	Moderate	--	1.1	88	2.6	2.4
009519	Mine Rock	And_tuf_metaseds	Camp	SP12-125	22	24	KCC (2020)	8.7	2.8	0.040	2.7	87	85	122	Strong	--	1.8	147	1.4	1.7
009520	Mine Rock	And_tuf_metaseds	Camp	SP12-126	72	74	KCC (2020)	8.9	0.42	0.040	0.38	13	12	158	Strong	--	2.3	188	13	16
009521	Mine Rock	And_tuf_metaseds	Camp	SP12-126	167	169	KCC (2020)	8.9	0.92	0.030	0.89	29	28	225	Strong	--	2.6	218	8.1	7.9
009523	Mine Rock	And_tuf_metaseds	Camp	SP12-126	297	299	KCC (2020)	9.1	0.48	0.040	0.44	15	14	235	Strong	--	2.0	170	17	12
009529	Ore-Grade Materials	And_tuf_metaseds	Portage	SP12-127	384	386	KCC (2020)	8.0	4.0	0.050	3.9	125	123	14	None	--	0.11	9.2	0.11	0.074
009530	Mine Rock	And_tuf_metaseds	Camp	SP12-121	323	325	KCC (2020)	8.8	2.2	0.040	2.2	69	68	245	Strong	--	1.7	145	3.6	2.1
009531	Mine Rock	And_tuf_metaseds	Camp	SP12-121	271	273	KCC (2020)	8.8	0.34	0.030	0.31	11	9.8	243	Strong	--	1.6	130	25	13
009532	Ore-Grade Materials	And_tuf_metaseds	Camp	SP12-121	116	118	KCC (2020)	9.2	1.1	0.040	1.0	33	32	234	Moderate	--	2.8	233	7.3	7.3
009533	Mine Rock	And_tuf_metaseds	Camp	SP12-121	71.1	73	KCC (2020)	8.8	0.099	0.040	0.059	3.1	1.8	205	Strong	--	1.7	144	111	78
009534	Mine Rock	And_tuf_metaseds	Portage	SP12-119A	166	167.5	KCC (2020)	8.3	1.9	0.050	1.8	58	57	58	Moderate	--	1.1	93	1.0	1.6
009545	Ore-Grade Materials	And_tuf_metaseds	Portage	SP11-104	356	357	KCC (2020)	8.0	4.6	0.050	4.6	144	143	8.5	None	--	0.26	22	0.060	0.15
009553	Mine Rock	And_tuf_metaseds	Portage	SP12-116	167	168	KCC (2020)	9.4	1.3	0.030	1.3	40	39	270	Strong	--	2.2	181	6.9	4.6
009555	Mine Rock	And_tuf_metaseds	Portage	SP12-115	195.1	196.1	KCC (2020)	8.9	4.9	0.050	4.8	153	151	184	Strong	--	1.6	135	1.2	0.89
009560	Mine Rock	And_tuf_metaseds	Portage	SP12-146	137	139	KCC (2020)	9.3	1.5	0.030	1.5	47	46	139	Moderate	--	1.6	130	3.0	2.8
009562	Mine Rock	And_tuf_metaseds	Portage	SP12-140	127	129	KCC (2020)	9.0	0.15	0.030	0.12	4.7	3.8	240	Strong	--	1.8	153	63	40
009563	Mine Rock	And_tuf_metaseds	Portage	SP12-141	103	104	KCC (2020)	9.5	2.6	0.030	2.5	80	79	199	Strong	--	1.6	137	2.5	1.7
009565	Mine Rock	And_tuf_metaseds	Portage	SP12-141	162	163.2	KCC (2020)	8.8	5.4	0.040	5.4	168	167	168	Strong	--	1.4	118	1.0	0.70
009566	Ore-Grade Materials	And_tuf_metaseds	Portage	SP12-141	263	265	KCC (2020)	9.2	3.8	<0.010	3.8	118	118	175	Strong	--	1.4	118	1.5	1.0
009569	Mine Rock	And_tuf_metaseds	Portage	SP11-108	330	332	KCC (2020)	7.5	2.7	0.040	2.6	83	82	11	None	--	0.040	3.3	0.13	0.041
009570	Mine Rock	And_tuf_metaseds	Portage	SP11-108	247	249	KCC (2020)	7.8	2.4	0.030	2.4	76	75	8.7	None	--	0.020	1.7	0.12	0.022
009577	Mine Rock	And_tuf_metaseds	Portage	SP12-143	26	28	KCC (2020)	9.0	0.44	<0.010	0.43	14	13	180	Moderate	--	2.2	184	13	14
009578	Ore-Grade Materials	And_tuf_metaseds	Portage	SP12-143	173.1	175.1	KCC (2020)	9.5	1.3	<0.010	1.3	40	40	185	Moderate	--	1.9	158	4.6	4.0
009584	Ore-Grade Materials	And_tuf_metaseds	Portage	SP11-100	437	439	KCC (2020)	7.4	3.2	0.060	3.1	99	97	4.4	None	--	0.020	1.7	0.045	0.017
009587	Ore-Grade Materials	And_tuf_metaseds	Portage	SP12-151	86.5	88.5	KCC (2020)	8.2	2.1	0.020	2.1	67	66	15	None	--	0.060	5.0	0.22	0.076
009589	Mine Rock	And_tuf_metaseds	Portage	SP12-171	50	52	KCC (2020)	8.5	0.42	0.010	0.41	13	13	12	None	--	0.38	32	0.96	2.4
009591	Mine Rock	And_tuf_metaseds	Portage	SP12-170A	232	234	KCC (2020)	8.5	1.0	0.030	0.98	32	31	21	None	--	0.18	15	0.69	0.49
009592	Mine Rock	And_tuf_metaseds	Portage	SP12-170A	146.9	148.9	KCC (2020)	8.1	2.1	<0.010	2.1	67	66	14	None	--	0.040	3.3	0.22	0.050
009593	Mine Rock	And_tuf_metaseds	Portage	SP12-171	179	181	KCC (2020)	8.9	0.40	0.030	0.37	12	12	141	Moderate	--	1.9	158	12	14
009596	Mine Rock	And_tuf_metaseds	Portage	SP12-170A	74	77	KCC (2020)	8.5	0.29	0.030	0.26	9.2	8.3	15	None	--	0.34	28	1.8	3.4
009597	Mine Rock	And_tuf_metaseds	Portage	SP12-165	86	88	KCC (2020)	8.3	1.4	0.030	1.4	45	44	20	None	--	0.090	7.5	0.45	0.17
009599	Mine Rock	And_tuf_metaseds	Portage	SP12-165	40	42	KCC (2020)	8.9	0.031	<0.010	0.021	0.97	0.66	16	None	--	0.12	10	24	15
009600	Mine Rock	And_tuf_metaseds	Portage	SP12-174	198	200	KCC (2020)	8.9	0.66	<0.010	0.65	21	20	152	Strong	--	0.82	68	7.4	3.3
009606	Mine Rock	And_tuf_metaseds	Portage	SP12-184	129	131	KCC (2020)	9.4	0.28	<0.010	0.27	8.7	8.4	172	Moderate	--	2.1	171	21	20
009607	Mine Rock	And_tuf_metaseds	Portage	SP12-184	55	57	KCC (2020)	9.1	1.4	0.030	1.4	45	44	202	Strong	--	1.8	148	4.6	3.4
009610	Mine Rock	And_tuf_metaseds	Portage	SP12-183	65.3	67.7	KCC (2020)	8.2	1.5	0.030	1.4	46	45	24	Slight	--	0.31	26	0.54	0.58
009618	Ore-Grade Materials	And_tuf_metaseds	Portage	SP12-160	156	157.5	KCC (2020)	8.1	4.1	0.040	4.0	128	126	14	None	--	0.030	2.5	0.11	0.020
009619	Mine Rock	And_tuf_metaseds	Portage	SP12-160	115.7	117.2	KCC (2020)	8.5	0.17	<0.010	0.16	5.4	5.1	39	Slight	--	0.74	62	7.7	12
009624	Mine Rock	And_tuf_metaseds	Portage	SP12-177A	63	65	KCC (2020)	8.5	0.059	0.030	0.029	1.8	0.91	26	Slight	--	0.19	16	29	17
009626	Ore-Grade Materials	And_tuf_metaseds	Portage	SP12-154	21	23	KCC (2020)	8.9	2.6	<0.010	2.6	82	82	167	Moderate	--	2.2	184	2.0	2.2
009627	Mine Rock	And_tuf_metaseds	Portage	SP12-179	62	64	KCC (2020)	7.0	5.9	0.040	5.9	184	183	2.6	None	--	0.020	1.7	0.014	0.0093
009640	Mine Rock	And_tuf_metaseds	Portage	SP13-208	46	48.6	KCC (2020)	7.1	3.6	0.050	3.6	113	112	14	None	--	0.19	16	0.13	0.14
009641	Mine Rock	And_tuf_metaseds	Portage	SP13-208	96	69	KCC (2020)	9.1	0.061	<0.010	0.051	1.9	1.6	239	Strong	--	1.8	150	150	94
009642	Mine Rock	And_tuf_metaseds	Portage	SP13-208	114.6	116	KCC (2020)	9.5	1.2	<0.010	1.2	37	36	235	Strong	--	2.4	203	6.5	5.6
009645	Mine Rock	And_tuf_metaseds	Portage	SP13-209	118	120	KCC (2020)	8.3	2.0	<0.010	2.0	61	61	118	Slight	--	1.6	132	1.9	2.2
009646	Mine Rock	And_tuf_metaseds	Portage	SP13-209	198.2	200	KCC (2020)	9.1	0.49	<0.010	0.48	15	15	16	None	--	0.39	33	1.1	2.2
009647	Ore-Grade Materials	And																		

Table B-1. Acid Base Accounting Results

Sample ID	Classification	Final Lithology Group	Zone	Drillhole	From	To	Data Source	Paste pH	Total Sulphur ^(A)	Sulphate Sulphur ^(B)	Sulphide Sulphur ^(C)	MPA ^(D)	AP ^(E)	Sobek NP ^(F)	Fizz Rating	Total Carbon ^(G)	Total Inorganic Carbon ^(H)	CarbNP ^(I)	NPI/AP	CarbNPI/AP
Units					m	m		pH Units	%	%	%	kg CaCO ₃ /t	kg CaCO ₃ /t	kg CaCO ₃ /t	Unity	%	%	kg CaCO ₃ /t	NP/AP	CarbNP/AP
009675	Ore-Grade Materials	And_tuf_metaseds	Portage	SP13-219	50	52	KCC (2020)	8.0	4.4	0.040	4.4	138	137	18	None	--	0.1	12	0.13	0.085
009676	Mine Rock	And_tuf_metaseds	Portage	SP13-219	66	68	KCC (2020)	9.2	1.00	<0.010	0.99	31	31	92	Slight	--	1.5	122	3.0	3.9
009678	Mine Rock	And_tuf_metaseds	Portage	SP13-221	63	65	KCC (2020)	9.0	0.077	0.040	0.037	2.4	1.2	17	None	--	0.58	48	14	42
009679	Mine Rock	And_tuf_metaseds	Portage	SP13-221	109	111	KCC (2020)	8.6	0.45	0.030	0.42	14	13	50	Slight	--	1.1	88	3.8	6.6
009682	Mine Rock	And_tuf_metaseds	Portage	SP12-168	86	88	KCC (2020)	9.1	0.80	<0.010	0.79	25	25	119	Strong	--	1.1	95	4.8	3.9
009688	Ore-Grade Materials	And_tuf_metaseds	Camp	SP11-030	41	42	KCC (2020)	9.0	3.8	0.030	3.8	120	119	191	Strong	--	1.8	148	1.6	1.2
009696	Mine Rock	And_tuf_metaseds	Portage	SP10-026	73	75	KCC (2020)	9.4	1.4	0.030	1.4	43	42	137	Strong	--	1.2	103	3.2	2.4
009697	Mine Rock	And_tuf_metaseds	Portage	SP10-026	60	62	KCC (2020)	9.7	0.29	0.030	0.26	9.0	8.0	132	Strong	--	1.2	96	16	12
A00356159	Ore-Grade Materials	And_tuf_metaseds	Portage	SP11-035	95	97	KCC (2020)	8.9	3.5	0.030	3.5	109	108	217	Moderate	--	2.9	242	2.0	2.2
A00356165	Ore-Grade Materials	And_tuf_metaseds	Portage	SP11-073	224	226	KCC (2020)	7.7	3.9	0.050	3.9	122	120	9.6	None	--	0.030	2.5	0.080	0.021
A00356167	Mine Rock	And_tuf_metaseds	Portage	SP10-003	211	213	KCC (2020)	8.5	4.7	0.040	4.7	146	147	200	Strong	--	2.0	167	1.4	1.1
A00356176	Mine Rock	And_tuf_metaseds	Portage	SP10-006	83	64	KCC (2020)	9.3	0.11	0.040	0.067	3.3	2.1	168	Strong	--	1.9	160	80	76
A00356191	Mine Rock	And_tuf_metaseds	Portage	SP10-001	194.9	196.7	KCC (2020)	9.2	1.4	0.040	1.3	43	41	131	Strong	--	1.1	94	3.2	2.3
A00356193	Mine Rock	And_tuf_metaseds	Portage	SP10-001	227	228	KCC (2020)	8.7	4.7	0.040	4.7	147	146	192	Strong	--	2.3	190	1.3	1.3
A00356199	Mine Rock	And_tuf_metaseds	Portage	SP11-077	103	105	KCC (2020)	6.7	5.5	0.050	5.5	173	171	39	Moderate	--	0.85	71	0.23	0.41
A00356200	Mine Rock	And_tuf_metaseds	Portage	SP11-077	137	139	KCC (2020)	5.6	5.5	0.050	5.4	171	169	13	None	--	0.030	2.5	0.079	0.015
009702	Mine Rock	And_tuf_metaseds	Camp	BL-0287	62.3	76.2	KCC (2020)	9.6	0.96	0.040	0.92	30	29	159	Strong	--	1.8	146	5.5	5.1
009703	Mine Rock	And_tuf_metaseds	Camp	BL-0287	111.2	125	KCC (2020)	9.2	0.12	0.040	0.077	3.7	2.4	159	Strong	--	1.1	91	66	38
09878	Mine Rock	And_tuf_metaseds	Portage	SP11-081	166.7	168.7	KCC (2020)	9.5	2.7	0.040	2.7	85	83	190	Strong	--	1.6	136	2.3	1.6
09862	Mine Rock	And_tuf_metaseds	Portage	SP11-077	22	23	KCC (2020)	7.7	1.1	0.050	1.0	33	31	142	Strong	--	0.69	58	4.5	1.8
09863	Mine Rock	And_tuf_metaseds	Portage	SP11-077	124	125	KCC (2020)	9.5	1.4	0.040	1.4	43	42	127	Moderate	--	1.1	92	3.0	2.2
09876	Mine Rock	And_tuf_metaseds	Portage	SP11-081	44.1	46.1	KCC (2020)	9.1	0.85	0.030	0.82	27	26	157	Strong	--	2.1	178	6.1	6.9
09888	Mine Rock	And_tuf_metaseds	Portage	SP11-094	399	401	KCC (2020)	5.0	2.0	0.050	2.0	63	61	5.4	None	--	0.020	1.7	0.089	0.027
09899	Mine Rock	And_tuf_metaseds	Portage	SP12-134	82	84	KCC (2020)	9.4	2.3	0.040	2.3	73	72	221	Strong	--	3.1	255	3.1	3.5
09900	Mine Rock	And_tuf_metaseds	Portage	SP12-134	32	34	KCC (2020)	9.0	0.54	0.040	0.50	17	16	177	Strong	--	2.5	209	11	13
R00017815	Mine Rock	And_tuf_metaseds	Camp	BL-0280	10.67	11.28	KCC (2020)	9.1	0.88	0.020	0.86	28	27	130	Moderate	--	1.9	157	4.8	5.8
R00017816	Mine Rock	And_tuf_metaseds	Camp	BL-0280	25.18	26.52	KCC (2020)	9.2	0.43	0.020	0.41	13	13	107	Moderate	--	1.3	108	8.4	8.5
R00017818	Mine Rock	And_tuf_metaseds	Camp	BL-0281	10.88	12.53	KCC (2020)	8.7	3.8	0.030	3.7	118	117	162	Moderate	--	2.2	187	1.4	1.6
R00017819	Mine Rock	And_tuf_metaseds	Camp	BL-0281	25.66	26.37	KCC (2020)	9.1	0.51	<0.010	0.50	16	15	6.4	None	--	0.14	12	0.41	0.75
R00017823	Mine Rock	And_tuf_metaseds	Camp	BL-0283	24.78	25.91	KCC (2020)	8.7	0.24	0.020	0.22	7.3	6.7	130	Strong	--	1.4	120	19	18
R00017824	Ore-Grade Materials	And_tuf_metaseds	Camp	BL-0283	83.36	84.12	KCC (2020)	8.3	1.7	0.030	1.6	52	51	175	Strong	--	1.8	148	3.5	2.9
R00017802	Mine Rock	And_tuf_metaseds	Camp	BL-0284	11.28	12.19	KCC (2020)	8.9	0.11	<0.010	0.10	3.5	3.2	62	Strong	--	0.59	49	20	16
R00017803	Mine Rock	And_tuf_metaseds	Camp	BL-0284	74.8	76.14	KCC (2020)	8.8	0.32	0.030	0.29	10	9.1	188	Strong	--	2.0	169	21	19
R00017805	Mine Rock	And_tuf_metaseds	Portage	BL-0286	10.42	11.86	KCC (2020)	8.7	3.2	0.040	3.1	99	98	141	Strong	--	1.9	157	1.4	1.6
R00017806	Ore-Grade Materials	And_tuf_metaseds	Portage	BL-0286	40.72	41.18	KCC (2020)	8.7	2.9	0.030	2.8	90	89	214	Strong	--	3.0	251	2.4	2.8
R00017827	Mine Rock	And_tuf_metaseds	Camp	BL-0287	57.91	58.64	KCC (2020)	8.3	5.5	0.040	5.4	170	169	227	Strong	--	2.4	203	1.3	1.2
R00017843	Mine Rock	And_tuf_metaseds	Camp	BL-0287	118.41	118.9	KCC (2020)	8.9	0.54	0.020	0.52	17	16	167	Strong	--	1.8	147	10	9.0
R00017828	Mine Rock	And_tuf_metaseds	Camp	BL-0288	24.99	26.12	KCC (2020)	8.8	0.71	0.020	0.69	22	22	210	Strong	--	2.0	167	9.7	7.7
R00017829	Ore-Grade Materials	And_tuf_metaseds	Camp	BL-0288	60.2	60.56	KCC (2020)	9.1	1.8	0.030	1.7	55	54	226	Strong	--	2.0	168	4.2	3.1
R00017844	Ore-Grade Materials	And_tuf_metaseds	Camp	BL-0288	101.5	102.5	KCC (2020)	8.8	0.34	0.020	0.32	11	10	217	Strong	--	2.2	186	22	18
R00017882	Mine Rock	And_tuf_metaseds	Portage	BL-0289	24.54	25.12	KCC (2020)	9.0	1.8	0.030	1.8	56	55	145	Moderate	--	2.0	164	2.6	3.0
R00017807	Mine Rock	And_tuf_metaseds	Portage	BL-0290	30.78	31.52	KCC (2020)	8.8	1.8	0.030	1.7	55	54	193	Moderate	--	2.6	217	3.6	4.0
R00017830	Mine Rock	And_tuf_metaseds	Portage	BL-0290	51.82	52.73	KCC (2020)	8.8	3.0	0.030	3.0	93	92	180	Moderate	--	2.0	170	1.7	1.8
R00017831	Mine Rock	And_tuf_metaseds	Portage	BL-0290	74.22	74.43	KCC (2020)	9.1	0.47	0.030	0.44	15	14	182	Strong	--	1.6	136	13	10.0
R00017809	Mine Rock	And_tuf_metaseds	Camp	BL-0298	8.84	10.36	KCC (2020)	9.5	0.56	0.030	0.53	18	17	146	Strong	--	1.6	131	8.7	7.9
R00017836	Mine Rock	And_tuf_metaseds	Camp	BL-0298	20.79	22.25	KCC (2020)	9.2	1.1	0.030	1.1	34	33	160	Moderate	--	1.6	130	4.9	4.0
R00017890	Mine Rock	And_tuf_metaseds	Camp	BL-0299	12.8	13.17	KCC (2020)	8.9	1.2	0.030	1.2	37	36	247	Strong	--	2.3	189	6.8	5.2
R00017891	Mine Rock	And_tuf_metaseds	Camp	BL-0299	99.18	99.76	KCC (2020)	9.9	1.3	0.030	1.3	41	40	279	Strong	--	2.0	168	7.0	4.2
R00017892	Mine Rock	And_tuf_metaseds	Camp	BL-0299	124.91	125.21	KCC (2020)	9.2	0.36	0.030	0.33	11	10	247	Strong	--	2.1	172	24	17
R00017810	Mine Rock	And_tuf_metaseds	Camp	BL-0299	149.32	150.27	KCC (2020)	8.8	0.25	0.040	0.21	7.8	6.6	360	Strong	--	3.0	251	95	38
R00017862	Ore-Grade Materials	And_tuf_metaseds	Camp	BL-0307	10.73	11.77	KCC (2020)	9.0	3.6	0.040	3.5	111	110	322	Moderate	--	4.0	333	2.9	3.0
R00017896	Mine Rock	And_tuf_metaseds	Camp	BL-0307	22.56	24.08	KCC (2020)	8.9	2.9	0.030	2.9	91	90	124	Moderate	--	2.4	197	1.4	2.2
R00017897	Mine Rock	And_tuf_metaseds	Portage	BL-0308	10.36	10.64	KCC (2020)	8.8	2.4	0.050	2.3	73	72	188	Moderate	--	1.9	157	2.6	2.2
R00017898	Mine Rock	And_tuf_metaseds	Portage	BL-0308	24.99	26.73	KCC (2020)	9.5	0.31	0.040	0.27	9.8	8.6	254	Moderate	--	2.7	225	30	26
R00017899	Mine Rock	And_tuf_metaseds	Portage	BL-0308	50.05	50.57	KCC (2020)	9.4	0.20	0.030	0.17	6.1	5.2	233	Moderate	--	2.5	211	45	41
R00017900	Mine Rock	And_tuf_metaseds	Portage	BL-0308	75.74	76.17	KCC (2020)	9.4	0.054	0.020	0.034	1.7	1.1	249	Strong	--	2.4	201	234	189
R00017871	Mine Rock	And_tuf_metaseds	Portage	BL-0308	100.04	101.01	KCC (2020)	8.9	0.69	0.020	0.67	22	21	253	Strong	--	1.7	139	12	6.7
R00017901	Ore-Grade Materials	And_tuf_metaseds	Portage	BL-0308	125.27	126.52	KCC (2020)	9.0	2.0	0.020	1.9	61	61	111	Strong	--	1.2	99	1.8	1.6
R00017872	Mine Rock	And_tuf_metaseds	Portage	BL-0308	200.35	201.17	KCC (2020)	9.1	0.62	0.030	0.59	19	18	201	Moderate	--	1.7	145	11	7.9
R00017873	Ore-Grade Materials	And_tuf_metaseds	Portage	BL-0308	225	225.86	KCC (2020)	9.1	4.3	0.030	4.3	134	133	269	Strong	--	2.3	191	2.0	1.4
R00017874	Ore-Grade Materials	And_tuf_metaseds	Portage	BL-0308	301.45	302.67	KCC (2020)	8.7	3.8	0.030	3.8	120	119	62	Strong	--	0.95	79	0.52	0.67
R00017876	Mine Rock	And_tuf_metaseds	Portage	BL-0309	10.36	11.28	KCC (2020)	9.6	1.6	0.020	1.6	51	50	177	Strong	--	1.3	111	3.5	2.2
R00017877	Mine Rock	And_tuf_metaseds	Portage	BL-0309	24.99	26.21	KCC (2020)	8.5	2.4	0.020	2.4	75	74	187	Strong	--	1.6	132	2.5	1.8
R00017878	Mine Rock	And_tuf_metaseds	East Extension	BL-0316	51.82	52.62	KCC (2020)	9.2	0.36	0.020	0.34	11	11	238	Strong	--	1.8	153	22	14
R00017851	Mine Rock	And_tuf_metaseds	Portage	BL-0310	10.15	12.5	KCC (2020)	8.8	1.1	<0.010	1.1	33	33	221						

Table B-1. Acid Base Accounting Results

Sample ID	Classification	Final Lithology Group	Zone	Drillhole	From	To	Data Source	Paste pH	Total Sulphur ^(A)	Sulphate Sulphur ^(B)	Sulphide Sulphur ^(C)	MPA ^(D)	AP ^(E)	Sobek NP ^(F)	Fizz Rating	Total Carbon ^(G)	Total Inorganic Carbon ^(H)	CarbNP ^(I)	NPR ^(J)	CarbNPR ^(K)
Units					m	m		pH Units	%	%	%	kg CaCO ₃ /t	kg CaCO ₃ /t	kg CaCO ₃ /t	Unity	%	%	kg CaCO ₃ /t	NP/AP	CarbNP/AP
R00017856	Ore-Grade Materials	And_tuf_metaseds	Portage	BL-0312	100.58	102.11	KCC (2020)	8.9	1.7	0.030	1.7	53	52	97	Strong	--	1.0	86	1.9	1.7
R00017857	Mine Rock	And_tuf_metaseds	East Extension	BL-0313	21.95	23.47	KCC (2020)	9.4	0.89	0.020	0.87	28	27	149	Moderate	--	2.0	166	5.5	6.1
R00017858	Ore-Grade Materials	And_tuf_metaseds	East Extension	BL-0313	50.9	52.43	KCC (2020)	9.4	1.6	<0.010	1.5	48	48	116	Strong	--	1.6	129	2.4	2.7
R00017863	Mine Rock	And_tuf_metaseds	East Extension	BL-0313	99.67	100.58	KCC (2020)	9.3	1.1	0.030	1.0	33	33	115	Moderate	--	1.3	104	3.5	3.2
R00017859	Mine Rock	And_tuf_metaseds	East Extension	BL-0313	122.53	124.05	KCC (2020)	9.6	0.40	0.030	0.37	12	12	132	Strong	--	1.3	108	12	9.4
R00017864	Mine Rock	And_tuf_metaseds	East Extension	BL-0314	10.97	11.67	KCC (2020)	9.0	2.0	0.020	1.9	61	61	140	Strong	--	1.8	153	2.3	2.5
R00017865	Mine Rock	And_tuf_metaseds	East Extension	BL-0315	43.28	44.5	KCC (2020)	9.0	2.0	0.020	1.9	61	61	138	Moderate	--	1.8	148	2.3	2.4
R00017866	Mine Rock	And_tuf_metaseds	East Extension	BL-0315	74.68	76.2	KCC (2020)	9.7	0.33	<0.010	0.32	10	10	91	Moderate	--	1.0	84	9.1	8.4
R00017867	Ore-Grade Materials	And_tuf_metaseds	East Extension	BL-0315	100.4	101.19	KCC (2020)	8.4	2.4	<0.010	2.4	75	75	407	Strong	--	5.1	423	5.4	5.7
R00017868	Mine Rock	And_tuf_metaseds	East Extension	BL-0315	125.88	127.1	KCC (2020)	9.4	0.80	0.030	0.77	25	24	161	Strong	--	1.9	154	6.7	6.4
R00017869	Mine Rock	And_tuf_metaseds	East Extension	BL-0316	29.87	31.39	KCC (2020)	9.5	0.68	0.020	0.66	21	21	175	Strong	--	2.2	185	8.5	9.0
R00017879	Mine Rock	And_tuf_metaseds	East Extension	BL-0316	98.45	99.97	KCC (2020)	9.2	0.14	0.020	0.12	4.3	3.7	304	Strong	--	3.7	311	82	84
R00017870	Mine Rock	And_tuf_metaseds	East Extension	BL-0316	125.58	127.1	KCC (2020)	9.0	1.6	0.020	1.5	48	48	212	Strong	--	2.7	228	4.4	4.8
R00017912	Mine Rock	And_tuf_metaseds	East Extension	BL-0343	50.17	50.81	KCC (2020)	9.1	0.61	0.020	0.59	19	18	233	Moderate	--	2.9	238	13	13
R00017913	Mine Rock	And_tuf_metaseds	Portage	BL-0323	93.57	94.49	KCC (2020)	8.7	0.090	0.020	0.070	2.8	2.2	162	Strong	--	1.0	86	74	39
R00017930	Ore-Grade Materials	And_tuf_metaseds	Portage	BL-0289	46.85	47.06	KCC (2020)	8.3	4.5	0.030	4.4	139	138	120	Strong	--	1.2	98	0.87	0.71
R00017931	Mine Rock	And_tuf_metaseds	East Extension	BL-0333	15	15.64	KCC (2020)	9.2	0.26	0.030	0.23	8.0	7.1	131	Moderate	--	1.6	136	19	19
R00017932	Mine Rock	And_tuf_metaseds	East Extension	BL-0333	40.36	41.06	KCC (2020)	8.7	0.29	0.030	0.26	9.1	8.1	178	Strong	--	2.7	222	22	27
R00017933	Mine Rock	And_tuf_metaseds	East Extension	BL-0333	75.74	76.54	KCC (2020)	8.6	1.1	0.020	1.0	33	32	137	Strong	--	2.4	200	4.3	6.2
R00017934	Mine Rock	And_tuf_metaseds	East Extension	BL-0336	25.15	25.91	KCC (2020)	8.9	1.6	0.030	1.5	49	48	173	Strong	--	2.3	188	3.6	3.9
R00017935	Ore-Grade Materials	And_tuf_metaseds	East Extension	BL-0336	50.63	51.33	KCC (2020)	8.5	2.2	0.040	2.1	68	67	192	Strong	--	2.5	206	2.9	3.1
R00017936	Mine Rock	And_tuf_metaseds	East Extension	BL-0336	65.99	66.63	KCC (2020)	9.2	0.30	0.030	0.27	9.3	8.3	140	Strong	--	1.6	134	17	16
R00017937	Mine Rock	And_tuf_metaseds	East Extension	BL-0337	10.03	11.25	KCC (2020)	8.7	2.0	0.030	1.9	61	60	131	Strong	--	1.7	138	2.2	2.3
R00017938	Mine Rock	And_tuf_metaseds	East Extension	BL-0337	25.51	26.09	KCC (2020)	9.2	0.34	0.030	0.31	11	9.8	134	Strong	--	2.0	164	14	17
R00017941	Mine Rock	And_tuf_metaseds	East Extension	BL-0338	12.25	12.8	KCC (2020)	8.7	0.80	0.030	0.77	25	24	54	Moderate	--	1.0	86	2.3	3.6
R00017942	Mine Rock	And_tuf_metaseds	East Extension	BL-0338	24.84	25.3	KCC (2020)	8.5	1.3	0.040	1.2	40	38	96	Strong	--	1.0	87	2.5	2.3
R00017943	Mine Rock	And_tuf_metaseds	Camp	BL-0353	55.5	56.08	KCC (2020)	8.6	0.46	0.040	0.42	15	13	101	Strong	--	2.1	174	14	13
R00017944	Ore-Grade Materials	And_tuf_metaseds	Camp	BL-0353	74.71	75.5	KCC (2020)	8.3	1.4	0.050	1.4	45	43	124	Moderate	--	1.5	126	2.8	2.9
R00017945	Mine Rock	And_tuf_metaseds	Camp	BL-0354	101.74	102.32	KCC (2020)	8.2	2.0	0.040	2.0	64	63	146	Moderate	--	1.8	152	2.3	2.4
R00017946	Mine Rock	And_tuf_metaseds	Camp	BL-0355	24.69	24.99	KCC (2020)	8.0	2.4	0.060	2.3	75	73	116	Moderate	--	1.5	128	1.6	1.7
R00017952	Mine Rock	And_tuf_metaseds	East Extension	BL-0370	9.05	10.21	KCC (2020)	8.4	2.2	0.040	2.2	69	68	133	Strong	--	1.6	129	2.0	1.9
R00017953	Mine Rock	And_tuf_metaseds	East Extension	BL-0370	25.42	26.64	KCC (2020)	8.6	1.2	0.040	1.2	39	38	277	Strong	--	3.3	278	7.4	7.4
R00017954	Mine Rock	And_tuf_metaseds	East Extension	BL-0370	50.41	51.24	KCC (2020)	9.0	0.54	0.020	0.52	17	16	139	Strong	--	1.6	133	8.6	8.2
R00017955	Mine Rock	And_tuf_metaseds	East Extension	BL-0370	75.29	76.17	KCC (2020)	9.3	0.55	0.030	0.52	17	16	128	Moderate	--	1.7	143	7.9	8.9
R00017956	Mine Rock	And_tuf_metaseds	Camp	BL-0378	9.56	10.34	KCC (2020)	7.9	0.85	0.050	0.80	26	25	79	Moderate	--	0.70	58	3.2	2.3
W-001	Ore-Grade Materials	And_tuf_metaseds	Portage	PM-DH-01	150	151	WSP (2021)	8.2	2.2	<0.010	2.2	68	68	8.7	None	0.1	0.020	1.7	0.13	0.025
W-002	Ore-Grade Materials	And_tuf_metaseds	Portage	PM-DH-01	252	253	WSP (2021)	8.2	4.2	0.030	4.2	131	130	11	None	0.5	0.020	1.7	0.084	0.013
W-003	Ore-Grade Materials	And_tuf_metaseds	Portage	PM-DH-01	349	350	WSP (2021)	8.6	2.4	0.19	2.2	73	68	313	Strong	3.8	3.2	263	4.6	3.9
W-004	Mine Rock	And_tuf_metaseds	Portage	PM-DH-01	300	301	WSP (2021)	7.8	5.8	0.030	5.8	183	182	8.4	None	0.070	<0.020	1.7	0.046	0.0092
W-007	Ore-Grade Materials	And_tuf_metaseds	Portage	PM-DH-01	48	49	WSP (2021)	8.1	3.0	0.030	3.0	95	94	16	None	0.17	0.020	1.7	0.17	0.018
W-015	Ore-Grade Materials	And_tuf_metaseds	Portage	PM-DH-02	299	300	WSP (2021)	7.1	6.2	0.030	6.1	192	191	11	None	0.020	<0.020	1.7	0.055	0.0087
W-027	Mine Rock	And_tuf_metaseds	Portage	SM20-001	348	349	WSP (2021)	9.2	0.17	0.010	0.16	5.3	5.0	19	None	0.020	<0.020	1.7	3.7	0.33
W-034	Mine Rock	And_tuf_metaseds	Portage	SP11-088	97	98	WSP (2021)	9.1	0.45	0.010	0.44	14	14	173	Moderate	2.4	2.1	178	13	13
W-042	Mine Rock	And_tuf_metaseds	Camp	SP12-136	24	26	WSP (2021)	8.8	0.080	0.030	0.050	2.5	1.6	182	Strong	2.6	2.5	206	116	132
W-044	Mine Rock	And_tuf_metaseds	Portage	SP12-151	59.5	61.5	WSP (2021)	7.9	0.30	0.030	0.27	9.4	8.4	17	None	0.33	0.050	4.2	2.1	0.49
W-046	Mine Rock	And_tuf_metaseds	Portage	SP12-151	98.5	100.5	WSP (2021)	8.0	0.43	0.010	0.42	13	13	13	None	0.24	0.020	1.7	1.0	0.13
W-047	Mine Rock	And_tuf_metaseds	Portage	SP11-088	150	151	WSP (2021)	9.2	0.37	0.010	0.36	12	11	181	Strong	2.3	2.0	169	16	15
W-049	Mine Rock	And_tuf_metaseds	Portage	SP11-088	51	52	WSP (2021)	9.1	0.47	<0.010	0.46	15	14	211	Strong	3.1	2.8	229	15	16
W-055	Ore-Grade Materials	And_tuf_metaseds	Portage	PM-DH-01	16.5	18	WSP (2021)	7.8	2.0	<0.010	2.0	63	63	5.8	None	0.020	0.020	1.7	0.092	0.027
W-056	Mine Rock	And_tuf_metaseds	Camp	SP12-132	117	118.6	WSP (2021)	9.5	0.14	<0.010	0.13	4.4	4.1	59	Moderate	0.65	0.59	49	15	12
W-057	Mine Rock	And_tuf_metaseds	Portage	SGH20-009	17	18	WSP (2021)	8.7	<0.010	<0.010	<0.010	0.31	0.31	146	Strong	1.5	1.5	126	468	403
W-059	Mine Rock	And_tuf_metaseds	Camp	SP12-136	96	98	WSP (2021)	8.3	0.43	0.030	0.40	13	13	150	Strong	1.8	1.7	139	12	11
W-061	Mine Rock	And_tuf_metaseds	Camp	SP12-136	72	74	WSP (2021)	8.8	0.46	0.030	0.4	14	13	143	Strong	1.8	1.7	140	11	10
W-062	Mine Rock	And_tuf_metaseds	Camp	SP12-132	87	89	WSP (2021)	8.4	0.33	0.010	0.32	10	10	129	Strong	1.9	1.7	141	13	14
W-063	Mine Rock	And_tuf_metaseds	Camp	SP12-136	54	56	WSP (2021)	8.7	0.15	0.030	0.12	4.7	3.8	167	Strong	2.0	1.9	158	45	42
W-064	Mine Rock	And_tuf_metaseds	Portage	SP12-123	6	8	WSP (2021)	8.6	0.22	0.010	0.21	6.9	6.6	132	Moderate	1.9	1.7	145	20	22
W-066	Mine Rock	And_tuf_metaseds	Portage	SP12-123	57	59	WSP (2021)	9.1	0.46	0.010	0.45	14	14	96	Strong	1.2	1.1	90	6.8	6.4
W-068	Mine Rock	And_tuf_metaseds	Portage	SP12-123	99	101	WSP (2021)	9.1	0.59	<0.010	0.58	18	18	142	Strong	1.7	1.5	126	7.8	6.9
W-070	Mine Rock	And_tuf_metaseds	Portage	SP12-123	147	149	WSP (2021)	9.2	2.1	<0.010	2.1	64	64	127	Strong	1.4	1.1	88	2.0	1.4
W-077	Mine Rock	And_tuf_metaseds	Camp	SP12-132	72	74	WSP (2021)	9.0	0.24	0.030	0.21	7.5	6.6	174	Strong	2.9	2.6	218	26	33
W-078	Mine Rock	And_tuf_metaseds	Portage	SP12-120	297	299	WSP (2021)	8.9	5.0	0.040	5.0	157	155	65	Moderate	0.54	0.27	23	0.42	0.14
W-080	Mine Rock	And_tuf_metaseds	Portage	SP12-120	10	11	WSP (2021)	8.8	1.4	0.030	1.4	45	44	85	Moderate	0.96	0.65	54	1.9	1.2
W-081	Mine Rock	And_tuf_metaseds	Camp	SP12-132	105	107	WSP (2021)	9.5	0.55	0.030	0.52	17	16	67	Moderate	0.88	0.70	58	4.1	3.6
W-082	Mine Rock	And_tuf_metaseds	Portage	SP12-120	51	52	WSP (2021)	8.7	0.85	0.010	0.84	27	26	173	Strong	2.3	2.1	174	6.6	6.6
W-084	Mine Rock	And_tuf_metaseds	Portage																	

Table B-1. Acid Base Accounting Results

Sample ID	Classification	Final Lithology Group	Zone	Drillhole	From	To	Data Source	Paste pH	Total Sulphur ^(A)	Sulphate Sulphur ^(B)	Sulphide Sulphur ^(C)	MPA ^(D)	AP ^(E)	Sobek NP ^(F)	Fizz Rating	Total Carbon ^(G)	Total Inorganic Carbon ^(H)	CarbNP ^(I)	NPR ^(J)	CarbNPR ^(K)
Units					m	m		pH Units	%	%	%	kg CaCO ₃ /t	kg CaCO ₃ /t	kg CaCO ₃ /t	Unity	%	%	kg CaCO ₃ /t	NP/AP	CarbNP/AP
W-096	Mine Rock	And_tuf_metaseds	Portage	SP11-107	301	302	WSP (2021)	9.4	1.8	0.010	1.8	56	55	190	Moderate	3.0	2.5	208	3.4	3.8
W-098	Mine Rock	And_tuf_metaseds	Portage	SP11-107	339	340	WSP (2021)	9.2	2.4	0.010	2.4	75	75	168	Moderate	2.2	1.5	126	2.2	1.7
W-112	Mine Rock	And_tuf_metaseds	Portage	SP13-221	73	75	WSP (2021)	9.4	0.020	0.010	0.010	0.63	0.31	144	Moderate	2.1	2.0	163	460	520
W-113	Mine Rock	And_tuf_metaseds	Portage	SP12-113	7	8	WSP (2021)	9.3	0.10	0.030	0.070	3.1	2.2	133	Moderate	2.1	1.9	158	61	72
W-117	Mine Rock	And_tuf_metaseds	Portage	SP12-120	105	107	WSP (2021)	9.0	0.29	0.010	0.28	9.1	8.8	132	Strong	1.4	1.3	110	15	13
W-124	Mine Rock	And_tuf_metaseds	Portage	SG13-202	49	51	WSP (2021)	8.0	0.040	0.030	0.010	1.3	0.31	12	None	0.020	0.020	1.7	38	5.3
W-126	Mine Rock	And_tuf_metaseds	Portage	SG13-202	94	96	WSP (2021)	8.3	0.070	0.030	0.040	2.2	1.3	131	Moderate	1.8	1.6	137	105	109
W-128	Mine Rock	And_tuf_metaseds	Portage	SG13-200	98	100	WSP (2021)	8.6	0.090	0.010	0.080	2.8	2.5	98	Strong	0.9	0.8	67	39	27
W-130	Mine Rock	And_tuf_metaseds	Portage	SG13-200	50	52	WSP (2021)	8.5	0.15	0.030	0.12	4.7	3.8	14	None	0.080	0.020	1.7	3.7	0.44
W-132	Mine Rock	And_tuf_metaseds	Portage	SP11-107	103	104	WSP (2021)	8.9	0.060	<0.010	0.050	1.9	1.6	149	Strong	1.7	1.6	131	95	84
W-133	Mine Rock	And_tuf_metaseds	Portage	SP11-107	46	47	WSP (2021)	8.6	0.65	0.030	0.62	20	19	218	Strong	2.9	2.5	211	31	11
W-135	Mine Rock	And_tuf_metaseds	Portage	SP11-107	150	151	WSP (2021)	9.4	1.8	0.030	1.7	95	54	153	Moderate	2.0	1.5	126	11	2.3
W-137	Mine Rock	And_tuf_metaseds	Portage	SP11-107	249	250	WSP (2021)	8.9	4.8	0.030	4.7	149	148	99	Moderate	1.1	0.63	53	0.67	0.35
W-141	Mine Rock	And_tuf_metaseds	Portage	SP11-109	5	6	WSP (2021)	9.4	0.34	0.010	0.33	11	10	124	Moderate	1.7	1.5	125	12	12
W-150	Mine Rock	And_tuf_metaseds	Portage	SP13-219	96	98	WSP (2021)	8.7	1.9	0.040	1.8	58	57	16	None	0.10	0.020	1.7	0.28	0.029
W-151	Mine Rock	And_tuf_metaseds	Portage	SP13-221	127	129	WSP (2021)	8.0	0.62	0.060	0.56	19	18	68	Slight	1.2	0.78	65	3.9	3.7
W-162	Mine Rock	And_tuf_metaseds	Portage	PM-DH-04	296	297	WSP (2021)	8.4	2.9	0.040	2.8	90	89	41	Slight	1.4	0.3	26	0.46	0.29
W-163	Mine Rock	And_tuf_metaseds	Portage	SG13-201	51	53	WSP (2021)	7.8	1.5	0.030	1.4	46	45	15	None	0.36	0.040	3.3	0.32	0.075
W-165	Mine Rock	And_tuf_metaseds	Portage	SG13-202	151	153	WSP (2021)	8.6	1.3	0.030	1.2	39	38	110	Moderate	1.5	1.0	87	2.9	2.3
W-166	Ore-Grade Materials	And_tuf_metaseds	Portage	PM-DH-04	200	201	WSP (2021)	8.9	5.3	0.030	5.2	164	163	32	Moderate	0.17	0.070	5.8	0.20	0.036
W-167	Mine Rock	And_tuf_metaseds	Portage	SG13-202	199	201	WSP (2021)	8.7	0.39	0.030	0.36	12	11	68	Strong	0.51	0.41	34	6.0	3.0
W-168	Mine Rock	And_tuf_metaseds	Portage	PM-DH-04	55	56	WSP (2021)	8.9	1.4	0.010	1.4	43	43	167	Strong	1.9	1.7	140	3.9	3.2
W-169	Mine Rock	And_tuf_metaseds	Portage	SG13-201	99	101	WSP (2021)	8.2	0.78	0.030	0.75	24	23	48	Strong	0.40	0.19	16	2.1	0.68
W-170	Mine Rock	And_tuf_metaseds	Portage	PM-DH-04	100	101	WSP (2021)	9.2	0.32	<0.010	0.31	10	9.7	156	Strong	1.7	1.6	133	16	14
W-171	Ore-Grade Materials	And_tuf_metaseds	Portage	SG13-201	150	152	WSP (2021)	8.1	3.2	0.030	3.2	100	99	6.7	Strong	0.17	0.020	1.7	0.068	0.017
W-179	Mine Rock	And_tuf_metaseds	Portage	SP13-219	30	32	WSP (2021)	8.4	0.68	0.030	0.53	19	17	10	None	0.080	0.020	1.7	0.61	0.10
W-199	Mine Rock	And_tuf_metaseds	Portage	SP13-219	164	166	WSP (2021)	7.9	1.8	0.020	1.8	56	55	101	Strong	1.0	0.8	70	1.8	1.3
W-200	Mine Rock	And_tuf_metaseds	Portage	SG13-203	199	201	WSP (2021)	8.8	0.42	0.010	0.41	13	13	177	Strong	2.2	2.0	168	14	13
W-202	Mine Rock	And_tuf_metaseds	Portage	SG13-203	49	51	WSP (2021)	9.0	0.12	0.030	0.090	3.8	2.8	143	Strong	1.6	1.5	123	51	44
W-204	Mine Rock	And_tuf_metaseds	Portage	SG13-203	103	105	WSP (2021)	9.1	0.44	0.030	0.41	14	13	175	Moderate	2.5	2.3	188	14	15
W-207	Mine Rock	And_tuf_metaseds	Portage	PM-DH-04	6	7	WSP (2021)	9.0	1.5	0.010	1.5	47	47	163	Moderate	3.1	2.5	208	3.5	4.4
W-210	Mine Rock	And_tuf_metaseds	Portage	SP11-064	49	50	WSP (2021)	9.0	<0.010	<0.010	<0.010	0.31	0.31	123	Strong	1.3	1.3	105	393	336
W-211	Mine Rock	And_tuf_metaseds	Portage	PM-DH-04	150	151	WSP (2021)	8.8	2.7	0.020	2.7	84	84	105	Strong	1.1	0.70	58	1.2	0.70
W-212	Mine Rock	And_tuf_metaseds	Portage	SP11-064	100	101	WSP (2021)	8.9	0.020	0.020	<0.010	0.63	0.31	141	Strong	1.5	1.4	117	452	373
W-214	Mine Rock	And_tuf_metaseds	Portage	SP11-064	151	152	WSP (2021)	9.0	0.030	0.030	0.010	0.94	0.31	144	Strong	1.6	1.5	121	460	387
W-216	Mine Rock	And_tuf_metaseds	Portage	SP11-064	250	251	WSP (2021)	8.9	0.33	0.030	0.30	10	9.4	165	Strong	1.9	1.8	147	18	16
W-219	Mine Rock	And_tuf_metaseds	Portage	SG13-206	100	102	WSP (2021)	7.7	3.6	0.040	3.6	114	113	17	Slight	1.1	0.030	2.5	0.15	0.022
W-220	Mine Rock	And_tuf_metaseds	Camp	SP11-030	12	13	WSP (2021)	8.6	4.8	0.030	4.7	149	148	161	Moderate	2.5	1.6	133	1.1	0.90
W-222	Mine Rock	And_tuf_metaseds	Camp	SP11-030	150	151	WSP (2021)	8.8	<0.010	<0.010	<0.010	0.31	0.31	134	Strong	1.5	1.4	118	427	379
W-224	Mine Rock	And_tuf_metaseds	Camp	SP11-030	100	101	WSP (2021)	9.0	0.17	0.030	0.14	5.3	4.4	194	Strong	2.3	2.2	186	44	42
W-229	Mine Rock	And_tuf_metaseds	Portage	SG13-203	151	153	WSP (2021)	9.0	0.1	0.030	0.030	1.9	0.94	155	Moderate	2.5	2.4	198	166	211
W-230	Mine Rock	And_tuf_metaseds	Portage	SP11-050	100	101	WSP (2021)	9.2	0.26	0.030	0.23	8.1	7.2	157	Moderate	2.1	1.9	161	22	22
W-232	Mine Rock	And_tuf_metaseds	Portage	SP11-050	9	10	WSP (2021)	8.7	0.82	0.030	0.79	26	25	147	Moderate	2.0	1.8	148	6.0	6.0
W-234	Mine Rock	And_tuf_metaseds	Portage	SP11-050	51	52	WSP (2021)	8.6	0.23	0.030	0.20	7.2	6.3	204	Strong	2.5	2.4	198	33	32
W-235	Mine Rock	And_tuf_metaseds	Portage	SP12-174	102	104	WSP (2021)	8.6	0.32	0.030	0.29	10	9.1	83	Strong	0.80	0.71	59	9.2	6.5
W-236	Mine Rock	And_tuf_metaseds	Portage	SP12-180	102	104	WSP (2021)	8.3	0.29	0.030	0.26	9.1	8.1	86	Strong	0.72	0.66	55	11	6.8
W-237	Mine Rock	And_tuf_metaseds	Portage	SP12-174	54	56	WSP (2021)	9.0	0.33	0.030	0.30	10	9.4	142	Strong	1.6	1.5	121	15	13
W-238	Mine Rock	And_tuf_metaseds	Portage	SP12-180	150	152	WSP (2021)	8.3	1.1	0.030	1.1	36	35	121	Strong	1.1	0.96	80	3.5	2.3
W-239	Mine Rock	And_tuf_metaseds	Portage	SP12-174	150	152	WSP (2021)	9.1	0.56	0.030	0.53	18	17	123	Strong	1.2	1.1	88	7.4	5.3
W-247	Mine Rock	And_tuf_metaseds	Portage	SP11-055	22	23	WSP (2021)	7.9	3.0	0.030	3.0	93	93	115	Moderate	1.5	0.94	78	1.2	0.85
W-249	Mine Rock	And_tuf_metaseds	Portage	SP11-064	199	200	WSP (2021)	8.8	0.10	0.030	0.070	3.1	2.2	178	Strong	2.0	2.0	166	82	76
W-251	Mine Rock	And_tuf_metaseds	Portage	SP11-064	298	299	WSP (2021)	8.7	0.20	0.030	0.17	6.3	5.3	125	Strong	1.3	1.3	104	24	20
W-253	Ore-Grade Materials	And_tuf_metaseds	Camp	SP11-030	50	51	WSP (2021)	8.6	6.0	0.010	6.0	187	186	163	Strong	2.0	0.92	77	0.88	0.41
W-263	Mine Rock	And_tuf_metaseds	Portage	SP12-174	204	206	WSP (2021)	8.2	0.9	0.040	0.88	29	28	96	Moderate	0.94	0.79	66	3.5	2.4
W-264	Mine Rock	And_tuf_metaseds	Portage	SGH20-009	74	75	WSP (2021)	9.0	0.13	0.030	0.10	4.1	3.1	137	Strong	1.5	1.4	119	44	38
W-269	Mine Rock	And_tuf_metaseds	Portage	SG13-206	175	177	WSP (2021)	8.8	2.7	0.030	2.6	83	83	191	Strong	3.0	2.1	178	2.3	2.2
W-273	Mine Rock	And_tuf_metaseds	Camp	SP11-030	199	200	WSP (2021)	8.8	1.8	0.010	1.7	55	54	102	Strong	0.98	0.83	69	1.9	1.3
W-283	Mine Rock	And_tuf_metaseds	Portage	SGH20-009	29	30	WSP (2021)	8.7	1.0	0.010	1.0	33	32	181	Strong	2.2	2.1	171	5.6	5.3
W-295	Mine Rock	And_tuf_metaseds	Portage	SGH20-009	54	55	WSP (2021)	8.8	<0.010	<0.010	<0.010	0.31	0.31	185	Strong	2.2	2.2	179	591	573
W-297	Mine Rock	And_tuf_metaseds	Portage	SGH20-009	104	105	WSP (2021)	8.5	0.090	0.010	0.080	2.8	2.5	93	Strong	0.89	0.88	73	37	29
W-299	Mine Rock	And_tuf_metaseds	Portage	SGH20-007	44	45	WSP (2021)	8.5	3.3	0.010	3.3	103	103	86	Moderate	1.2	0.67	56	0.84	0.54
W-301	Mine Rock	And_tuf_metaseds	Portage	SGH20-004	36	37	WSP (2021)	9.0	1.8	0.030	1.8	96	95	149	Moderate	2.6	2.1	171	2.7	3.1
W-303	Mine Rock	And_tuf_metaseds	Portage	SGH20-004	11	12	WSP (2021)	8.2	4.0	<0.010	4.0	125	124	167	Strong	2.1	1.6	132	1.3	1.1
W-305	Mine Rock	And_tuf_metaseds	Portage	SGH20-004	19	20	WSP (2021)	8.7	0.30	0.030	0.27	9.4	8.4	144	Strong	1.6	1.5	128	17	15
W-306	Mine Rock	And_tuf_metaseds	Camp	SPW20-001	74	75	WSP (2021)	9.3												

Table B-1. Acid Base Accounting Results

Sample ID	Classification	Final Lithology Group	Zone	Drillhole	From	To	Data Source	Paste pH	Total Sulphur ^(A)	Sulphate Sulphur ^(B)	Sulphide Sulphur ^(C)	MPA ^(D)	AP ^(E)	Sobek NP ^(F)	Fizz Rating	Total Carbon ^(G)	Total Inorganic Carbon ^(H)	CarbNP ^(I)	NPR ^(J)	CarbNPR ^(K)
Units					m	m		pH Units	%	%	%	kg CaCO ₃ /t	kg CaCO ₃ /t	kg CaCO ₃ /t	Unity	%	%	kg CaCO ₃ /t	NP/AP	CarbNP/AP
M112010	Mine Rock	And_tuf_metaseds	East Extension	SM21-001	9	10	WSP (2021)	9.2	1.1	0.020	1.0	33	32	120	Moderate	1.9	1.3	112	3.7	3.5
M112013	Ore-Grade Materials	And_tuf_metaseds	East Extension	SM21-001	11	12	WSP (2021)	8.4	4.3	0.010	4.3	136	135	143	Strong	1.8	1.7	143	1.1	1.1
M112065	Mine Rock	And_tuf_metaseds	East Extension	SM21-001	71	72	WSP (2021)	9.4	0.80	0.040	0.76	25	24	398	Moderate	4.8	4.6	382	17	16
M112057	Mine Rock	And_tuf_metaseds	East Extension	SM21-001	65	66	WSP (2021)	9.6	0.030	0.030	0.010	0.94	0.31	161	Moderate	2.3	1.8	147	515	469
M112051	Mine Rock	And_tuf_metaseds	East Extension	SM21-001	59.53	61	WSP (2021)	9.5	<0.010	<0.010	<0.010	0.31	0.31	166	Moderate	2.3	1.8	152	531	485
M112068	Mine Rock	And_tuf_metaseds	East Extension	SM21-001	74	75	WSP (2021)	9.3	0.41	0.020	0.4	13	12	384	Moderate	4.3	4.2	353	32	29
M112074	Mine Rock	And_tuf_metaseds	East Extension	SM21-001	79	80	WSP (2021)	8.8	1.7	0.020	1.7	52	52	368	Moderate	4.2	4.1	343	7.1	6.6
M112078	Mine Rock	And_tuf_metaseds	East Extension	SM21-001	83	84.2	WSP (2021)	9.5	1.0	0.030	1.0	32	31	169	Moderate	2.4	1.9	155	5.4	5.0
M112089	Mine Rock	And_tuf_metaseds	East Extension	SM21-002	4	5.4	WSP (2021)	9.1	0.090	0.020	0.070	2.8	2.2	100	Moderate	1.4	0.94	70	46	32
M112092	Mine Rock	And_tuf_metaseds	East Extension	SM21-002	9	10	WSP (2021)	8.5	1.9	0.020	1.9	60	60	81	Moderate	1.2	0.77	64	14	1.1
M112105	Mine Rock	And_tuf_metaseds	East Extension	SM21-002	21	22	WSP (2021)	9.3	0.11	0.030	0.080	3.4	2.5	114	Moderate	1.5	1.1	93	46	37
M112103	Mine Rock	And_tuf_metaseds	East Extension	SM21-002	19	20	WSP (2021)	9.3	0.090	0.020	0.070	2.9	2.2	113	Moderate	1.5	1.0	87	52	40
M112108	Mine Rock	And_tuf_metaseds	East Extension	SM21-002	23	24	WSP (2021)	9.2	0.28	0.030	0.25	8.8	7.8	111	Moderate	1.4	1.1	89	14	11
M112139	Mine Rock	And_tuf_metaseds	East Extension	SM21-002	49	50	WSP (2021)	9.3	<0.010	<0.010	<0.010	0.31	0.31	145	Moderate	1.7	1.2	102	463	325
009556	Mine Rock	And_tuf_metaseds	Portage	SP12-115	164	165	KCC (2020)	8.6	<10	<0.010	<10.0	313	312	143	Moderate	--	1.7	140	0.46	0.45
009564	Mine Rock	And_tuf_metaseds	Portage	SP12-141	55.4	57.2	KCC (2020)	9.2	<0.41	<0.010	<0.40	13	12	160	Strong	--	1.4	118	13	9.5
009685	Mine Rock	And_tuf_metaseds	Camp	SP11-030	175	176	KCC (2020)	8.6	<1.1	<0.040	<1.1	34	33	202	Strong	--	2.0	163	6.2	5.0
009866	Mine Rock	And_tuf_metaseds	Portage	SP11-078	139	140	KCC (2020)	9.2	<0.044	<0.040	<0.0040	1.4	0.13	176	Strong	--	1.6	133	1410	1060
W-033	Mine Rock	And_tuf_metaseds	Portage	SGH20-001	108	109	WSP (2021)	8.9	<0.060	<0.020	<0.040	1.9	1.3	89	Strong	0.67	0.63	53	71	42
W-276	Mine Rock	And_tuf_metaseds	Portage	SGH20-001	43	44	WSP (2021)	8.8	<0.020	<0.010	<0.010	0.63	0.31	88	Strong	0.65	0.61	51	282	163
W-304	Mine Rock	And_tuf_metaseds	Portage	SGH20-001	16	17	WSP (2021)	9.1	<0.030	<0.010	<0.020	0.94	0.63	69	Moderate	0.43	0.4	33	110	52
ABA-180	Mine Rock	And_tuf_metaseds	Portage	SP11-046	7	8	MDAG (2012)	8.9	<0.020	<0.030	<0.020	0.63	0.63	148	3	1.8	1.8	148	237	237
ABA-181	Mine Rock	And_tuf_metaseds	Portage	SP11-046	67	68	MDAG (2012)	8.4	<0.55	<0.0050	<0.55	17	17	123	3	1.4	1.4	114	7.2	6.7
009502	Ore-Grade Materials	LAM	Portage	SP12-133	365	367	KCC (2020)	7.9	3.3	0.030	3.3	104	103	8.5	None	--	0.020	1.7	0.082	0.016
009539	Mine Rock	LAM	Portage	SP12-114	344.8	345.6	KCC (2020)	9.6	0.29	0.050	0.15	6.4	4.8	17	None	--	0.72	60	3.6	12
009559	Mine Rock	LAM	Portage	SP12-115	50.5	52.5	KCC (2020)	9.6	0.11	0.030	0.076	3.3	2.4	396	Strong	--	3.8	314	167	132
009585	Mine Rock	LAM	Portage	SP11-100	335	337	KCC (2020)	8.3	1.3	0.050	1.2	39	38	6.1	None	--	0.030	2.5	0.16	0.066
009615	Mine Rock	LAM	Portage	SP12-182	183.5	185.5	KCC (2020)	7.4	0.81	0.050	0.76	25	24	10	None	--	0.020	1.7	0.42	0.072
A00356160	Mine Rock	LAM	Portage	SP11-035	101.3	102.3	KCC (2020)	9.4	0.43	0.025	0.41	13	13	303	Moderate	--	4.0	329	24	26
09874	Mine Rock	LAM	Portage	SP11-080	224.2	226.2	KCC (2020)	7.4	1.6	0.050	1.5	50	48	13	None	--	0.16	13	0.27	0.28
W-129	Mine Rock	LAM	Portage	SP12-113	340	341	WSP (2021)	7.8	0.040	0.030	0.010	1.3	0.31	10	None	0.1	0.020	1.7	33	5.3
A00356174	Ore-Grade Materials	POR	East Extension	SP10-017	93	95	KCC (2020)	9.3	1.1	0.030	1.1	35	34	399	Strong	--	4.7	393	12	11
ABA-070	Mine Rock	POR	East Extension	BL-0013	120.4	121.62	MDAG (2012)	9.6	1.0	0.020	1.0	32	32	140	3	1.7	1.7	141	4.4	4.5
ABA-017	Mine Rock	POR	East Extension	BL-0054	50.29	51.82	MDAG (2012)	9.7	0.66	<0.0050	0.66	21	20	114	3	1.4	1.5	121	5.6	5.9
ABA-054	Mine Rock	POR	East Extension	BL-0114	158.5	160.02	MDAG (2012)	9.6	0.42	<0.0050	0.42	13	13	133	3	1.7	1.7	139	10	11
ABA-055	Mine Rock	POR	East Extension	BL-0114	217.93	218.85	MDAG (2012)	9.8	0.72	<0.0050	0.72	23	22	62	3	0.76	0.72	59	2.8	2.6
ABA-044	Mine Rock	POR	East Extension	BL-0223	218.85	220.37	MDAG (2012)	9.7	0.52	<0.0050	0.52	16	16	92	3	1.0	0.97	82	5.7	5.1
ABA-034	Mine Rock	POR	East Extension	BL-0223	277.67	279.2	MDAG (2012)	9.6	0.050	<0.0050	0.045	1.6	1.4	94	3	1.1	1.1	91	67	65
ABA-004	Mine Rock	POR	East Extension	BL-0246	41.15	42.21	MDAG (2012)	9.8	0.73	0.030	0.70	23	22	96	3	1.1	0.89	75	4.4	3.4
ABA-074	Ore-Grade Materials	POR	Portage	BL-0289	2.93	3.08	MDAG (2012)	8.4	5.6	0.020	5.6	174	174	229	3	2.9	2.9	239	1.3	1.4
ABA-075	Mine Rock	POR	Portage	BL-0289	23.87	24.08	MDAG (2012)	9.5	2.1	0.010	2.1	66	66	161	3	2.0	1.9	161	2.4	2.4
ABA-073	Ore-Grade Materials	POR	Portage	BL-0289	47.12	47.27	MDAG (2012)	9.5	3.9	0.020	3.8	120	120	147	3	1.7	1.7	139	1.2	1.2
ABA-058	Mine Rock	POR	Portage	DA-92-03	180.9	181.9	MDAG (2012)	9.1	0.020	0.010	0.03	0.31	5.0	1	0.080	0.070	6.8	16	22	
ABA-179	Mine Rock	POR	Portage	SP10-002	243	244	MDAG (2012)	7.7	2.8	<0.0050	2.8	87	87	13	1	0.20	0.17	14	0.15	0.16
ABA-108	Mine Rock	POR	Portage	SP10-019	67	68	MDAG (2012)	8.7	1.3	0.010	1.3	40	40	95	3	1.2	0.99	82	2.4	2.0
ABA-107	Mine Rock	POR	Portage	SP10-021	181	182	MDAG (2012)	9.4	0.20	0.020	0.18	6.3	5.6	187	3	2.3	2.2	186	33	33
ABA-184	Mine Rock	POR	Portage	SP10-021	241	242	MDAG (2012)	8.6	3.9	0.040	3.9	122	121	203	3	2.7	2.7	223	1.7	1.6
ABA-149	Mine Rock	POR	Portage	SP11-040	126	127.5	MDAG (2012)	8.6	0.040	0.010	0.030	1.3	0.94	28	2	0.38	0.34	30	30	32
ABA-121	Mine Rock	POR	Portage	SP11-050	186	187	MDAG (2012)	9.4	1.2	0.010	1.1	36	36	24	2	0.63	0.60	50	0.67	1.4
ABA-131	Mine Rock	POR	Portage	SP11-063	183	184	MDAG (2012)	8.4	0.49	<0.0050	0.49	15	15	13	1	0.020	0.050	4.5	0.86	0.30
ABA-127	Mine Rock	POR	Portage	SP11-063	243	244	MDAG (2012)	9.3	0.19	<0.0050	0.19	5.9	5.8	18	1	0.040	0.050	4.5	3.1	0.79
ABA-128	Mine Rock	POR	Portage	SP11-063	303	304	MDAG (2012)	9.3	0.11	0.010	0.10	3.4	3.1	113	3	1.1	1.1	89	36	28
ABA-126	Mine Rock	POR	Portage	SP11-063	423	424	MDAG (2012)	9.4	1.6	0.030	1.55	49	48	97	3	1.3	1.1	93	2.0	1.9
ABA-134	Mine Rock	POR	Portage	SP11-063	482	483	MDAG (2012)	9.4	1.4	0.010	1.4	45	44	128	3	1.3	1.3	109	2.9	2.5
ABA-135	Mine Rock	POR	Portage	SP11-063	542	543	MDAG (2012)	9.5	0.27	<0.0050	0.27	8.4	8.3	108	3	1.1	1.1	93	13	11
ABA-124	Mine Rock	POR	Portage	SP11-064	3	4	MDAG (2012)	8.9	0.66	<0.0050	0.66	21	20	121	3	1.3	1.3	107	5.9	5.2
ABA-140	Mine Rock	POR	Portage	SP11-064	63	64	MDAG (2012)	9.0	1.7	<0.0050	1.6	52	51	129	3	1.3	1.3	105	2.5	2.0
ABA-137	Mine Rock	POR	Portage	SP11-064	123	124	MDAG (2012)	9.3	0.090	<0.0050	0.085	2.8	2.7	117	3	1.1	1.1	89	44	33
ABA-136	Mine Rock	POR	Portage	SP11-064	183	184	MDAG (2012)	9.3	0.050	<0.0050	0.045	1.6	1.4	165	3	1.8	1.8	148	117	105
ABA-139	Mine Rock	POR	Portage	SP11-064	243	244	MDAG (2012)	9.2	0.050	0.010	0.040	1.6	1.3	130	3	1.4	1.3	111	104	89
ABA-138	Mine Rock	POR	Portage	SP11-064	303	304	MDAG (2012)	9.2	0.18	0.0050	0.18	5.6	5.5	139	3	1.5	1.5	125	25	23
ABA-119	Mine Rock	POR	Portage	SP11-068	1	2	MDAG (2012)	9.2	0.020	<0.0050	0.015	0.63	0.47	109	3	1.1	1.1	91	233	194
ABA-116	Mine Rock	POR	Portage	SP11-068	61	62	MDAG (2012)	9.2	0.090	0.010	0.080	2.8	2.5	177	3	2.0	2.0	164	71	65
ABA-143	Mine Rock	POR	Portage	SP11-068	420	421	MDAG (2012)	9.3	0.10	0.0050	0.095	3.1	3.0	124	3	1.3	1.3	105	42	35
ABA-165	Mine Rock	POR	Portage	SP11-072	243	244	MDAG (2012)	9.3	1.8	0.0050	1.8	56	56	102	3	1.2	1.			

Table B-1. Acid Base Accounting Results

Sample ID	Classification	Final Lithology Group	Zone	Drillhole	From	To	Data Source	Paste pH	Total Sulphur ^(A)	Sulphate Sulphur ^(B)	Sulphide Sulphur ^(C)	MPA ^(D)	AP ^(E)	Sobek NP ^(F)	Fizz Rating	Total Carbon ^(G)	Total Inorganic Carbon ^(H)	CarbNP ^(I)	NPR ^(J)	CarbNPR ^(K)
Units					m	m		pH Units	%	%	%	kg CaCO ₃ /t	kg CaCO ₃ /t	kg CaCO ₃ /t	Unity	%	%	kg CaCO ₃ /t	NP/AP	CarbNP/AP
ABA-145	Mine Rock	POR	Portage	SP11-075	62	63	MDAG (2012)	9.4	0.65	<0.0050	0.65	20	20	10	1	0.18	0.16	14	0.50	0.68
ABA-163	Ore-Grade Materials	POR	Portage	SP11-075	182	183	MDAG (2012)	8.7	3.3	0.030	3.3	104	103	14	1	0.12	0.12	9.1	0.14	0.088
ABA-164	Mine Rock	POR	Portage	SP11-075	241	242	MDAG (2012)	8.7	2.2	0.020	2.1	68	67	11	1	0.24	0.18	16	0.16	0.24
ABA-162	Mine Rock	POR	Portage	SP11-087	62	63	MDAG (2012)	7.8	4.4	0.020	4.4	138	137	13	1	0.59	0.050	4.5	0.095	0.033
ABA-174	Mine Rock	POR	Portage	SP11-087	122	123	MDAG (2012)	8.3	0.34	<0.0050	0.34	11	10	22	2	0.63	0.60	50	2.1	4.8
ABA-150	Mine Rock	POR	Portage	SP11-087	242	243	MDAG (2012)	9.3	0.63	<0.0050	0.63	20	20	10	1	0.10	0.10	9.1	0.51	0.47
ABA-156	Mine Rock	POR	Portage	SP11-087	301.5	303	MDAG (2012)	9.2	2.6	0.10	2.5	81	78	16	1	0.17	0.16	14	0.21	0.18
ABA-169	Mine Rock	POR	Portage	SP11-088	7	8	MDAG (2012)	9.0	1.1	<0.0050	1.0	33	33	70	2	1.2	1.2	96	2.1	2.9
ABA-168	Mine Rock	POR	Portage	SP11-088	66	67	MDAG (2012)	9.4	1.5	<0.0050	1.5	47	46	119	3	1.5	1.5	125	2.6	2.7
ABA-175	Mine Rock	POR	Portage	SP11-088	126	127	MDAG (2012)	9.1	1.5	<0.0050	1.5	48	48	135	3	1.9	1.7	143	2.8	3.0
ABA-152	Mine Rock	POR	Portage	SP11-088	246	247	MDAG (2012)	9.5	1.5	<0.0050	1.5	46	45	99	3	1.2	1.2	96	2.2	2.2
ABA-153	Mine Rock	POR	Portage	SP11-088	305.5	307	MDAG (2012)	8.6	2.2	0.010	2.2	69	69	10	1	0.070	0.080	6.8	0.15	0.099
ABA-151	Ore-Grade Materials	POR	Portage	SP11-088	365.5	367	MDAG (2012)	8.1	5.7	0.020	5.7	177	177	9.0	1	0.070	0.025	2.3	0.051	0.013
ABA-155	Mine Rock	POR	Portage	SP11-088	427	428.5	MDAG (2012)	8.9	2.8	0.050	2.7	86	85	95	3	0.97	0.95	80	1.1	0.94
ABA-111	Mine Rock	POR	Portage	SP11-099	64	65	MDAG (2012)	9.5	0.94	<0.0050	0.94	29	29	75	3	0.95	0.88	73	2.6	2.5
ABA-102	Mine Rock	POR	Portage	SP11-106	244	245	MDAG (2012)	8.7	0.74	<0.0050	0.74	23	23	7.0	1	0.11	0.060	4.5	0.30	0.20
ABA-088	Mine Rock	POR	Portage	SP11-106	304	305	MDAG (2012)	8.2	0.66	<0.0050	0.66	21	20	5.0	1	0.19	0.070	6.8	0.24	0.33
009503	Mine Rock	POR	Portage	SP12-133	376	378	KCC (2020)	7.9	3.0	0.030	2.9	93	92	16	None	--	0.060	5.0	0.17	0.055
009504	Mine Rock	POR	Portage	SP12-133	257.5	259.5	KCC (2020)	7.6	3.3	0.040	3.3	103	102	10	None	--	0.24	20	0.098	0.20
009515	Mine Rock	POR	Portage	SP12-131	163.5	165.5	KCC (2020)	8.7	1.0	0.040	0.98	32	31	78	Strong	--	0.95	79	2.5	2.6
009517	Mine Rock	POR	Portage	SP12-131	33	35	KCC (2020)	8.9	0.30	0.030	0.27	9.4	8.5	156	Strong	--	2.4	203	18	24
009527	Mine Rock	POR	Portage	SP12-127	272.1	275	KCC (2020)	7.4	1.4	0.040	1.4	43	42	6.9	None	--	<0.020	1.7	0.16	0.040
009542	Mine Rock	POR	Portage	SP12-114	152	153	KCC (2020)	9.4	0.89	0.030	0.86	28	27	226	Strong	--	1.6	134	8.4	5.0
009548	Ore-Grade Materials	POR	Portage	SP12-117A	338	341	KCC (2020)	7.3	6.1	0.040	6.1	192	191	11	None	--	<0.020	1.7	0.058	0.0089
009550	Mine Rock	POR	Portage	SP12-117A	236.5	238.5	KCC (2020)	8.3	1.6	0.050	1.5	49	48	6.2	Slight	--	0.040	3.3	0.13	0.070
009558	Ore-Grade Materials	POR	Portage	SP12-112	39	31.5	KCC (2020)	9.1	0.16	<0.010	0.15	4.8	4.6	212	Strong	--	1.6	132	46	28
009572	Mine Rock	POR	Portage	SP11-108	59	61	KCC (2020)	9.2	1.5	0.050	1.5	48	47	110	Moderate	--	1.4	113	2.3	2.4
009575	Mine Rock	POR	Portage	SP12-142	230	232	KCC (2020)	7.7	6.7	0.030	6.7	211	210	14	None	--	0.030	2.5	0.065	0.012
009586	Mine Rock	POR	Portage	SP11-100	349	351	KCC (2020)	8.2	1.8	0.030	1.8	56	55	11	None	--	0.050	4.2	0.19	0.076
009608	Mine Rock	POR	Portage	SP12-183	130	132	KCC (2020)	8.8	4.4	<0.010	4.4	138	138	100	Moderate	--	0.96	80	0.72	0.58
009617	Ore-Grade Materials	POR	Portage	SP12-182	64	69	KCC (2020)	6.5	2.0	<0.010	2.0	63	63	5.3	None	--	0.030	2.5	0.084	0.040
009622	Ore-Grade Materials	POR	Portage	SP12-177A	197.2	199	KCC (2020)	8.5	0.038	0.030	0.0080	1.2	0.25	14	Slight	--	0.16	13	57	53
009629	Mine Rock	POR	Portage	SP12-179	123	126.9	KCC (2020)	8.1	1.0	0.030	1.0	32	31	6.9	None	--	0.060	5.0	0.22	0.16
009631	Mine Rock	POR	Portage	SP12-153	142.5	144	KCC (2020)	8.7	0.45	<0.010	0.44	14	14	11	Slight	--	0.080	6.7	0.77	0.48
009637	Ore-Grade Materials	POR	Portage	SP13-207	116	119	KCC (2020)	8.1	0.36	0.030	0.33	11	10	5.8	None	--	0.050	4.2	0.56	0.40
009639	Mine Rock	POR	Portage	SP13-207	171	173	KCC (2020)	7.7	0.96	0.040	0.92	30	29	4.0	None	--	0.020	1.7	0.14	0.058
009662	Mine Rock	POR	Portage	SP12-162B	334	336	KCC (2020)	7.2	1.3	0.080	1.2	40	38	10	None	--	0.090	7.5	0.27	0.20
009665	Ore-Grade Materials	POR	Portage	SP12-199	251	253	KCC (2020)	6.8	1.4	0.060	1.3	44	42	4.9	None	--	0.030	2.5	0.12	0.060
009667	Mine Rock	POR	Portage	SP13-215	142	144	KCC (2020)	8.2	0.56	0.030	0.53	18	17	11	None	--	0.51	43	0.69	2.6
009670	Mine Rock	POR	Portage	SP13-213	113	115	KCC (2020)	8.2	3.9	0.030	3.8	120	119	27	None	--	0.060	5.0	0.23	0.042
009671	Mine Rock	POR	Portage	SP13-215	173	175	KCC (2020)	7.6	1.2	0.040	1.2	38	37	8.1	None	--	0.17	14	0.22	0.38
009677	Mine Rock	POR	Portage	SP13-219	106.2	108.2	KCC (2020)	8.9	0.43	<0.010	0.42	13	13	40	Slight	--	0.38	32	3.1	2.4
009681	Mine Rock	POR	Portage	SP13-218	49	52	KCC (2020)	7.0	3.5	0.030	3.4	108	107	3.4	None	--	0.030	2.5	0.032	0.023
009692	Mine Rock	POR	Portage	SP11-044	141	143	KCC (2020)	7.7	0.57	0.030	0.54	18	17	2.4	None	--	0.030	2.5	0.14	0.15
A00356153	Mine Rock	POR	Portage	SP11-038	95	97	KCC (2020)	7.9	0.86	0.030	0.83	27	26	1.6	None	--	<0.020	1.7	0.062	0.066
A00356155	Mine Rock	POR	Portage	SP11-037	221	223	KCC (2020)	8.4	0.040	0.040	0.040	1.3	1.3	3.1	None	--	0.040	3.3	2.5	2.7
A00356164	Mine Rock	POR	Portage	SP11-073	185.9	187.9	KCC (2020)	8.1	1.4	0.040	1.4	44	43	7.8	None	--	0.040	3.3	0.18	0.078
A00356171	Mine Rock	POR	Portage	SP10-006	291	293	KCC (2020)	7.1	0.62	0.040	0.58	19	18	6.1	None	--	0.040	3.3	0.34	0.18
A00356173	Mine Rock	POR	East Extension	SP10-017	51	53	KCC (2020)	9.4	0.56	0.040	0.52	18	16	179	Strong	--	2.0	164	11	10
A00356175	Mine Rock	POR	East Extension	SP10-017	122	124	KCC (2020)	9.6	0.57	0.030	0.54	18	17	95	Strong	--	0.94	78	5.6	4.6
A00356181	Mine Rock	POR	Portage	SP10-022	136	138	KCC (2020)	8.4	1.0	0.040	0.97	32	30	85	Strong	--	0.86	72	2.8	2.4
A00356187	Mine Rock	POR	Portage	SP11-053	330	332	KCC (2020)	7.1	0.32	0.040	0.28	9.9	8.6	5.0	None	--	0.060	5.0	0.58	0.58
A00356196	Mine Rock	POR	Portage	SP11-071	120.8	121.8	KCC (2020)	9.3	1.1	0.040	1.1	34	33	96	Moderate	--	0.77	64	2.9	2.0
09872	Mine Rock	POR	Portage	SP11-080	120	122	KCC (2020)	8.5	0.59	0.040	0.55	18	17	12	Slight	--	0.14	12	0.70	0.68
09873	Mine Rock	POR	Portage	SP11-080	172	174	KCC (2020)	7.3	0.94	0.040	0.90	29	28	3.4	Slight	--	0.050	4.2	0.12	0.15
09880	Mine Rock	POR	Portage	SP11-083	234	236	KCC (2020)	6.3	1.2	0.050	1.1	37	36	7.1	None	--	0.040	3.3	0.20	0.094
09882	Mine Rock	POR	Portage	SP11-084	85	87	KCC (2020)	6.1	1.7	0.040	1.7	54	53	11	None	--	0.030	2.5	0.20	0.047
09887	Mine Rock	POR	Portage	SP11-094	308	309	KCC (2020)	5.2	1.8	0.040	1.8	58	56	0.90	None	--	<0.020	1.7	0.016	0.030
09890	Mine Rock	POR	Portage	SP11-091	72	74	KCC (2020)	6.2	1.0	0.030	1.0	33	32	1.1	None	--	<0.020	1.7	0.035	0.053
09895	Mine Rock	POR	Portage	SP11-083	187	189	KCC (2020)	6.2	1.1	0.030	1.0	33	33	3.9	None	--	0.020	1.7	0.12	0.051
09898	Mine Rock	POR	Portage	SP12-134	236	238	KCC (2020)	9.7	0.24	0.010	0.23	7.4	7.1	68	Strong	--	0.59	49	9.6	6.9
R00017817	Mine Rock	POR	Camp	BL-0280	50.11	50.9	KCC (2020)	9.2	0.40	0.030	0.37	13	12	109	Moderate	--	1.5	128	9.4	11
R00017820	Ore-Grade Materials	POR	Camp	BL-0281	50.9	51.72	KCC (2020)	8.9	0.34	0.030	0.31	11	9.7	116	Moderate	--	1.1	95	12	9.8
R00017825	Mine Rock	POR	Camp	BL-0284	50.29	50.9	KCC (2020)	8.5	0.44	0.030	0.41	14	13	121	Strong	--	1.7	142	9.5	11
R00017881	Ore-Grade Materials	POR	Portage	BL-0289	10.12	10.79	KCC (2020)	7.4	3.2	0.040	3.1	98	97	12	None	--	1.1	93	0.13	0.96
R00017832	Mine Rock	POR	East Extension	BL-0293	10.67	11.09	KCC (2020)	9.3	0.79	<0.010	0.78	25	24	186	Strong	--	2.3	194	7.6	7.

Table B-1. Acid Base Accounting Results

Sample ID	Classification	Final Lithology Group	Zone	Drillhole	From	To	Data Source	Paste pH	Total Sulphur ^(A)	Sulphate Sulphur ^(B)	Sulphide Sulphur ^(C)	MPA ^(D)	AP ^(E)	Sobek NP ^(F)	Fizz Rating	Total Carbon ^(G)	Total Inorganic Carbon ^(H)	CarbNP ^(I)	NPR ^(J)	CarbNPR ^(K)
Units					m	m		pH Units	%	%	%	kg CaCO ₃ /t	kg CaCO ₃ /t	kg CaCO ₃ /t	Unity	%	%	kg CaCO ₃ /t	NP/AP	CarbNP/AP
R00017861	Mine Rock	POR	Camp	BL-0305	106.77	107.02	KCC (2020)	8.7	0.10	0.020	0.080	3.1	2.5	546	Strong	--	5.5	459	219	184
R00017927	Mine Rock	POR	East Extension	BL-0328	71.32	71.99	KCC (2020)	9.0	0.74	<0.010	0.73	23	23	123	Strong	--	1.3	110	5.4	4.8
R00017948	Mine Rock	POR	East Extension	BL-0365	11.43	12.16	KCC (2020)	8.9	0.89	0.030	0.86	28	27	241	Strong	--	3.0	253	9.0	9.4
W-005	Mine Rock	POR		PM-DH-01	103.5	105	WSP (2021)	9.0	1.0	0.030	0.97	31	30	17	Moderate	0.20	0.070	5.8	0.55	0.19
W-006	Ore-Grade Materials	POR	Portage	PM-DH-02	100	101	WSP (2021)	8.3	0.90	<0.010	0.89	28	28	25	Moderate	0.37	0.25	21	0.90	0.75
W-008	Ore-Grade Materials	POR	Portage	PM-DH-02	150	151	WSP (2021)	7.9	1.3	0.030	1.3	41	40	3.9	None	0.020	<0.020	1.7	0.098	0.042
W-009	Ore-Grade Materials	POR	Portage	PM-DH-01	198	199	WSP (2021)	8.0	2.5	0.030	2.5	78	77	14	None	0.62	<0.020	1.7	0.18	0.022
W-011	Mine Rock	POR	Portage	PM-DH-02	78	79	WSP (2021)	7.6	1.0	<0.010	1.0	33	32	16	None	0.17	<0.020	1.7	0.50	0.052
W-017	Ore-Grade Materials	POR	Portage	PM-DH-02	249	250	WSP (2021)	7.2	0.68	0.040	0.92	30	29	4.9	None	0.24	<0.020	1.7	0.17	0.058
W-051	Mine Rock	POR	Portage	SP11-088	199	200	WSP (2021)	9.2	0.36	0.030	0.33	11	10	39	Strong	0.39	0.33	29	3.9	2.7
W-100	Mine Rock	POR	Portage	SP11-109	20	21	WSP (2021)	9.2	0.52	<0.010	0.51	16	16	127	Strong	1.5	1.3	108	7.9	6.8
W-102	Mine Rock	POR	Portage	SP11-109	38	39	WSP (2021)	9.2	0.030	0.030	<0.010	0.94	0.31	120	Strong	1.4	1.4	113	384	360
W-115	Mine Rock	POR	Portage	SP12-120	207	209	WSP (2021)	9.0	1.8	0.030	1.8	57	56	124	Strong	1.4	1.1	94	2.2	1.7
W-119	Mine Rock	POR	Portage	SP12-113	51	52	WSP (2021)	9.6	0.32	<0.010	0.31	10	9.7	121	Strong	1.4	1.3	104	13	11
W-125	Mine Rock	POR	Portage	SP12-113	300	301	WSP (2021)	7.5	3.0	0.040	3.0	95	94	5.3	None	0.020	<0.020	1.7	0.057	0.018
W-127	Mine Rock	POR	Portage	SP12-113	250	251	WSP (2021)	8.1	2.4	0.040	2.4	75	73	5.9	None	0.020	<0.020	1.7	0.080	0.023
W-180	Mine Rock	POR	Portage	SP13-216	42	44	WSP (2021)	8.0	0.48	<0.010	0.47	15	15	4.7	None	0.090	<0.020	1.7	0.32	0.11
W-194	Mine Rock	POR	Portage	SG13-205	49	51	WSP (2021)	9.1	1.1	0.030	1.1	35	34	40	Moderate	0.42	0.28	23	1.2	0.69
W-221	Mine Rock	POR	Portage	SG13-205	97	99	WSP (2021)	9.1	1.2	0.020	1.2	38	37	76	Strong	0.80	0.67	56	2.0	1.5
W-223	Mine Rock	POR	Portage	SG13-205	201	203	WSP (2021)	8.9	0.69	0.030	0.66	22	21	79	Strong	0.87	0.75	63	3.8	3.0
W-227	Mine Rock	POR	Portage	SG13-204	52	54	WSP (2021)	7.8	0.26	<0.010	0.25	8.1	7.8	5.9	None	0.080	0.030	2.5	0.76	0.32
W-262	Mine Rock	POR	Portage	SM20-003	107	108	WSP (2021)	8.9	1.9	0.040	1.8	58	57	207	Strong	2.5	2.2	179	3.6	3.1
W-270	Ore-Grade Materials	POR	Portage	SM20-003	254	255	WSP (2021)	8.5	4.1	0.050	4.0	127	125	6.7	None	0.030	<0.020	1.7	0.053	0.013
W-313	Mine Rock	POR	Portage	SM20-003	184	185	WSP (2021)	8.7	3.2	0.040	3.2	100	99	23	Moderate	0.19	<0.020	1.7	0.23	0.017
009687	Ore-Grade Materials	TRA	Camp	SP11-030	53	54	KCC (2020)	8.8	4.4	0.040	4.3	136	135	368	Strong	--	4.3	354	2.7	2.6
ABA-115	Mine Rock	TRA	Camp	SP10-023	219	220	MDAG (2012)	9.3	0.030	0.020	0.010	0.94	0.31	117	3	1.2	1.2	102	374	327
ABA-112	Mine Rock	TRA	Camp	SP10-023	279	280	MDAG (2012)	8.7	9.8	<0.0050	9.8	118	118	220	3	2.4	2.4	198	1.9	1.7
ABA-113	Mine Rock	TRA	Camp	SP11-090	159	160	MDAG (2012)	9.3	0.16	<0.0050	0.16	5.0	4.8	230	3	3.0	2.9	246	47	51
ABA-098	Mine Rock	TRA	Portage	SP11-107	159	160	MDAG (2012)	9.8	0.76	<0.0050	0.76	24	24	113	3	1.2	1.2	98	4.8	4.1
ABA-103	Mine Rock	TRA	Portage	SP11-107	218	219	MDAG (2012)	9.8	2.2	0.010	2.2	68	68	76	3	0.69	0.66	55	1.1	0.80
ABA-100	Mine Rock	TRA	Portage	SP11-107	277	278	MDAG (2012)	9.6	3.9	0.010	3.9	123	123	195	3	2.1	2.0	164	1.6	1.3
ABA-089	Mine Rock	TRA	Portage	SP11-107	338	339	MDAG (2012)	9.8	1.6	0.010	1.6	50	49	174	3	2.0	2.0	164	3.5	3.3
ABA-012	Mine Rock	TRA	Portage	DH-92-02	120.4	121	MDAG (2012)	8.7	3.0	0.020	2.9	92	92	25	2	0.19	0.15	14	0.27	0.15
ABA-177	Mine Rock	TRA	Portage	SP10-004	63	64	MDAG (2012)	8.9	2.9	0.020	2.9	90	90	76	2	0.95	0.91	75	0.85	0.84
ABA-109	Mine Rock	TRA	Portage	SP10-019	7	8	MDAG (2012)	8.4	1.5	<0.0050	1.5	48	48	140	3	1.8	1.7	141	2.9	3.0
ABA-106	Ore-Grade Materials	TRA	Portage	SP10-019	369	370	MDAG (2012)	8.3	5.9	0.010	5.9	184	183	17	1	0.18	0.17	14	0.093	0.074
ABA-125	Mine Rock	TRA	Portage	SP11-063	363	364	MDAG (2012)	8.2	4.6	0.080	4.5	144	141	13	1	0.040	0.060	4.5	0.092	0.032
ABA-146	Mine Rock	TRA	Portage	SP11-068	181	182	MDAG (2012)	9.3	0.090	<0.0050	0.085	2.8	2.7	154	3	1.8	1.7	141	58	53
ABA-147	Mine Rock	TRA	Portage	SP11-068	241	242	MDAG (2012)	9.1	3.5	0.010	3.5	109	109	204	3	2.7	2.6	218	1.9	2.0
ABA-159	Mine Rock	TRA	Portage	SP11-072	307	310	MDAG (2012)	9.0	4.1	<0.0050	4.1	127	127	99	3	1.2	1.2	100	0.78	0.79
ABA-148	Mine Rock	TRA	Portage	SP11-076	2	3	MDAG (2012)	9.6	0.84	0.010	0.83	26	26	54	2	0.64	0.62	52	2.1	2.0
ABA-172	Mine Rock	TRA	Portage	SP11-076	122	123	MDAG (2012)	9.4	1.5	0.010	1.5	46	46	104	3	1.3	1.1	89	2.3	1.9
ABA-173	Mine Rock	TRA	Portage	SP11-076	182	183	MDAG (2012)	9.5	1.4	0.040	1.3	43	42	159	3	1.8	1.8	150	3.8	3.6
ABA-170	Mine Rock	TRA	Portage	SP11-076	242.5	244	MDAG (2012)	8.7	0.97	0.020	0.95	30	30	5.0	1	0.040	0.025	2.3	0.17	0.077
ABA-176	Mine Rock	TRA	Portage	SP11-076	303	304	MDAG (2012)	9.1	1.4	0.040	1.4	44	43	10	1	0.12	0.11	9.1	0.24	0.21
ABA-157	Mine Rock	TRA	Portage	SP11-076	365.5	367	MDAG (2012)	7.5	3.5	<0.0050	3.5	109	109	13	1	0.11	0.10	9.1	0.12	0.083
ABA-171	Mine Rock	TRA	Portage	SP11-082	5	6.5	MDAG (2012)	9.3	0.65	0.010	0.64	20	20	83	3	1.0	0.98	82	4.2	4.1
ABA-160	Ore-Grade Materials	TRA	Portage	SP11-082	306	307	MDAG (2012)	7.3	1.8	<0.0050	1.8	56	55	7.0	1	0.070	0.060	4.5	0.13	0.082
ABA-161	Mine Rock	TRA	Portage	SP11-082	365.5	367	MDAG (2012)	9.1	3.7	<0.0050	3.6	114	114	20	1	0.30	0.25	20	0.18	0.18
ABA-158	Mine Rock	TRA	Portage	SP11-082	426	427	MDAG (2012)	9.1	1.9	0.10	1.8	59	56	119	3	1.4	1.4	114	2.1	2.0
ABA-154	Mine Rock	TRA	Portage	SP11-087	362	363	MDAG (2012)	9.5	1.4	0.020	1.4	45	44	144	3	1.6	1.5	125	3.2	2.8
ABA-104	Mine Rock	TRA	Portage	SP11-097	62	63	MDAG (2012)	8.7	0.59	<0.0050	0.59	18	18	44	2	0.58	0.49	41	2.4	2.2
ABA-090	Mine Rock	TRA	Portage	SP11-097	241	242	MDAG (2012)	8.5	1.2	0.010	1.2	37	37	10	1	0.030	0.025	2.3	0.27	0.062
ABA-087	Mine Rock	TRA	Portage	SP11-099	304	305	MDAG (2012)	7.7	1.4	0.040	1.3	43	42	3.0	1	0.040	0.050	4.5	0.072	0.11
ABA-099	Ore-Grade Materials	TRA	Portage	SP11-106	427	428.5	MDAG (2012)	8.3	6.6	<0.0050	6.6	208	207	9.0	1	0.070	0.025	2.3	0.043	0.011
009501	Mine Rock	TRA	Portage	SP12-133	416	418	KCC (2020)	7.7	2.4	0.030	2.4	75	74	8.7	None	--	<0.020	1.7	0.12	0.023
009512	Mine Rock	TRA	Portage	SP12-131	349	351	KCC (2020)	8.6	2.4	0.040	2.4	76	75	8.6	None	--	0.030	2.5	0.12	0.033
009513	Mine Rock	TRA	Portage	SP12-131	280	282	KCC (2020)	8.8	1.3	0.030	1.2	40	39	36	Moderate	--	0.26	22	0.92	0.56
009524	Ore-Grade Materials	TRA	Portage	SP12-127	19.2	21.2	KCC (2020)	9.2	1.3	0.030	1.3	42	41	111	Moderate	--	1.4	116	2.7	2.9
009526	Mine Rock	TRA	Portage	SP12-127	258	260	KCC (2020)	7.9	3.4	0.050	3.3	106	104	5.7	None	--	0.050	4.2	0.055	0.040
009528	Mine Rock	TRA	Portage	SP12-127	373	375	KCC (2020)	8.3	1.7	0.040	1.7	53	52	14	None	--	0.11	9.2	0.28	0.18
009535	Mine Rock	TRA	Portage	SP12-119A	73	75	KCC (2020)	9.3	1.5	0.030	1.5	47	46	182	Strong	--	1.3	110	4.0	2.4
009536	Mine Rock	TRA	Portage	SP12-119A	24	26	KCC (2020)	7.8	2.0	0.030	2.0	63	63	7.4	None	--	0.060	5.0	0.12	0.080
009538	Ore-Grade Materials	TRA	Portage	SP12-114	529	530.5	KCC (2020)	7.4	6.7	0.030	6.7	210	209	12	None	--	0.090	7.5	0.055	0.036
009540	Mine Rock	TRA	Portage	SP12-114	305	306	KCC (2020)	8.6	2.6	0.040	2.6	81	80	95	Moderate	--	0.45	38	1.2	0.47
009544	Mine Rock	TRA	Portage	SP11-104	382	384	KCC (2020)	6.7	7.2	0.030	7.2	22								

Table B-1. Acid Base Accounting Results



Sample ID	Classification	Final Lithology Group	Zone	Drillhole	From	To	Data Source	Paste pH	Total Sulphur ^(A)	Sulphate Sulphur ^(B)	Sulphide Sulphur ^(C)	MPA ^(D)	AP ^(E)	Sobek NP ^(F)	Fizz Rating	Total Carbon ^(G)	Total Inorganic Carbon ^(H)	CarbNP ^(I)	NPR ^(J)	CarbNPR ^(K)
Units					m	m		pH Units	%	%	%	kg CaCO ₃ /t	kg CaCO ₃ /t	kg CaCO ₃ /t	Unity	%	%	kg CaCO ₃ /t	NP/AP	CarbNP/AP
009557	Mine Rock	TRA	Portage	SP12-115	188	189	KCC (2020)	9.5	2.1	<0.010	2.1	65	65	182	Moderate	--	2.0	168	2.8	2.6
009561	Mine Rock	TRA	Portage	SP12-146	305	307	KCC (2020)	8.6	2.6	0.030	2.6	82	81	157	Strong	--	1.3	106	1.9	1.3
009567	Ore-Grade Materials	TRA	Portage	SP11-108	391.1	393	KCC (2020)	7.7	6.1	0.040	6.0	190	188	12	None	--	0.080	6.7	0.062	0.035
009571	Mine Rock	TRA	Portage	SP11-108	150	151	KCC (2020)	9.3	2.0	<0.010	2.0	61	61	117	Moderate	--	1.3	106	1.9	1.7
009573	Ore-Grade Materials	TRA	Portage	SP12-142	41	43	KCC (2020)	7.1	5.6	0.11	5.5	174	171	19	Moderate	--	0.29	24	0.11	0.14
009574	Mine Rock	TRA	Portage	SP12-142	218	220	KCC (2020)	8.4	4.2	0.030	4.2	131	130	13	None	--	0.090	7.5	0.10	0.058
009576	Ore-Grade Materials	TRA	Portage	SP12-142	319.5	321.5	KCC (2020)	8.1	2.6	0.030	2.6	82	81	16	None	--	0.030	2.5	0.19	0.031
009581	Mine Rock	TRA	Portage	SP11-100	171	172	KCC (2020)	8.9	2.5	<0.010	2.5	78	77	167	Strong	--	1.7	138	2.2	1.8
009582	Mine Rock	TRA	Portage	SP11-100	47	49	KCC (2020)	9.5	0.45	<0.010	0.64	20	20	98	Strong	--	0.87	73	4.8	3.6
009583	Mine Rock	TRA	Portage	SP11-100	457	458.5	KCC (2020)	7.2	0.45	0.050	0.40	74	74	12	None	--	0.060	5.0	1.1	0.41
009588	Mine Rock	TRA	Portage	SP12-151	202.5	204.5	KCC (2020)	7.7	1.6	0.050	1.5	49	48	12	None	--	0.15	13	0.24	0.26
009598	Ore-Grade Materials	TRA	Portage	SP12-165	172	174	KCC (2020)	8.5	3.7	<0.010	3.7	115	114	134	Strong	--	0.78	85	1.2	0.57
009602	Ore-Grade Materials	TRA	Portage	SP12-160	287	290	KCC (2020)	4.9	5.5	0.25	5.3	172	164	8.5	None	--	<0.020	1.7	0.052	0.010
009609	Ore-Grade Materials	TRA	Portage	SP12-183	286.5	288.5	KCC (2020)	9.2	0.49	<0.010	0.48	15	15	57	Strong	--	0.37	31	3.8	2.1
009611	Mine Rock	TRA	Portage	SP12-182	388	390	KCC (2020)	9.7	0.045	<0.010	0.035	1.4	1.1	157	Moderate	--	2.2	183	143	167
009612	Mine Rock	TRA	Portage	SP12-182	272	274	KCC (2020)	8.8	0.29	0.030	0.26	9.0	8.0	26	None	--	0.45	38	3.2	4.7
009613	Ore-Grade Materials	TRA	Portage	SP12-182	252	254	KCC (2020)	8.0	0.99	<0.010	0.98	31	31	14	None	--	0.040	3.3	0.46	0.11
009614	Mine Rock	TRA	Portage	SP12-182	227	229	KCC (2020)	7.7	3.5	0.070	3.5	110	108	12	None	--	0.040	3.3	0.11	0.031
009616	Mine Rock	TRA	Portage	SP12-182	127	129	KCC (2020)	8.7	0.41	0.030	0.38	13	12	19	None	--	0.33	28	1.6	2.3
009621	Mine Rock	TRA	Portage	SP12-177A	154.2	156.2	KCC (2020)	8.7	0.015	<0.010	0.0050	0.47	0.16	4.4	None	--	0.030	2.5	28	16
009628	Mine Rock	TRA	Portage	SP12-179	98	102	KCC (2020)	7.4	1.4	0.030	1.4	45	44	9.6	None	--	<0.020	1.7	0.22	0.039
009630	Mine Rock	TRA	Portage	SP12-153	60	62	KCC (2020)	7.9	6.0	0.040	5.9	186	185	51	Moderate	--	0.55	46	0.28	0.25
009632	Mine Rock	TRA	Portage	SP12-153	188	190	KCC (2020)	8.7	0.32	<0.010	0.31	10	9.8	40	Slight	--	0.44	37	4.1	3.8
009633	Mine Rock	TRA	Portage	SP12-155	79	81	KCC (2020)	8.4	0.11	0.030	0.081	3.5	2.5	15	None	--	0.020	1.7	6.0	0.66
009634	Mine Rock	TRA	Portage	SP12-155	149	151	KCC (2020)	8.8	0.50	<0.010	0.49	16	15	33	Slight	--	0.32	27	2.1	1.7
009635	Mine Rock	TRA	Portage	SP12-155	259	261	KCC (2020)	8.2	3.8	0.010	3.8	119	118	10	None	--	0.040	3.3	0.086	0.028
009636	Mine Rock	TRA	Portage	SP13-207	85.5	87	KCC (2020)	7.5	1.4	<0.010	1.4	44	44	5.6	None	--	<0.020	1.7	0.15	0.059
009638	Mine Rock	TRA	Portage	SP13-207	145	147	KCC (2020)	8.0	1.2	0.030	1.2	37	36	14	None	--	0.040	3.3	0.39	0.082
009644	Ore-Grade Materials	TRA	Portage	SP13-209	173	175	KCC (2020)	8.6	5.1	<0.010	5.1	159	159	125	Strong	--	1.2	98	0.78	0.62
009648	Mine Rock	TRA	Portage	SP12-197	93.5	95	KCC (2020)	7.8	1.2	0.040	1.1	37	35	4.8	None	--	0.030	2.5	0.14	0.071
009649	Ore-Grade Materials	TRA	Portage	SP12-197	86	88	KCC (2020)	7.4	3.2	0.040	3.1	99	98	7.1	None	--	0.030	2.5	0.073	0.026
009650	Mine Rock	TRA	Portage	SP12-197	127	129	KCC (2020)	8.2	1.1	0.040	1.0	33	32	15	Slight	--	0.14	12	0.48	0.37
009651	Ore-Grade Materials	TRA	Portage	SP12-197	209	211	KCC (2020)	6.9	6.2	0.050	6.2	195	193	3.8	None	--	<0.020	1.7	0.020	0.0088
009652	Ore-Grade Materials	TRA	Portage	SP12-197	310	312	KCC (2020)	6.8	5.8	0.070	5.7	182	179	6.5	None	--	0.040	3.3	0.036	0.019
009653	Mine Rock	TRA	Portage	SP12-197	345	347	KCC (2020)	9.2	0.65	<0.010	0.64	20	20	19	None	--	0.12	10	0.97	0.50
009654	Mine Rock	TRA	Portage	SP12-161	9.5	11.5	KCC (2020)	8.3	0.67	<0.010	0.66	21	21	17	None	--	0.61	51	0.85	2.5
009656	Ore-Grade Materials	TRA	Portage	SP12-162B	42	44	KCC (2020)	7.7	3.5	0.040	3.5	110	109	13	None	--	0.46	38	0.12	0.35
009658	Mine Rock	TRA	Portage	SP13-212	118	120	KCC (2020)	8.3	0.46	<0.010	0.45	14	14	16	None	--	0.32	27	1.2	1.9
009659	Ore-Grade Materials	TRA	Portage	SP13-212	160	162	KCC (2020)	8.6	0.86	<0.010	0.85	27	27	15	None	--	0.25	21	0.56	0.78
009661	Ore-Grade Materials	TRA	Portage	SP13-212	160	162	KCC (2020)	8.6	0.36	0.030	0.33	11	10	9.4	None	--	0.080	6.7	0.91	0.64
009666	Mine Rock	TRA	Portage	SP13-215	82	84	KCC (2020)	8.0	1.6	0.040	1.6	50	49	16	None	--	0.53	44	0.33	0.90
009668	Mine Rock	TRA	Portage	SP12-162B	346	348	KCC (2020)	8.5	4.4	0.050	4.3	138	136	171	Moderate	--	0.83	69	1.3	0.51
009674	Ore-Grade Materials	TRA	Portage	SP13-217	194	196	KCC (2020)	8.4	2.3	0.040	2.3	73	71	158	Slight	--	1.7	138	2.2	1.9
009686	Ore-Grade Materials	TRA	Camp	SP11-030	61	62	KCC (2020)	8.8	3.9	0.030	3.8	120	119	278	Strong	--	3.0	252	2.3	2.1
009689	Mine Rock	TRA	Portage	SP11-044	51	52.5	KCC (2020)	9.6	0.11	0.040	0.067	3.3	2.1	113	Moderate	--	1.2	98	54	47
009693	Ore-Grade Materials	TRA	Portage	SP11-044	285.5	290.2	KCC (2020)	7.7	3.4	0.040	3.4	106	105	11	None	--	0.020	1.7	0.10	0.016
009694	Mine Rock	TRA	Portage	SP11-044	348	350	KCC (2020)	8.7	4.4	0.030	4.4	138	137	171	Strong	--	1.7	143	1.2	1.0
009698	Ore-Grade Materials	TRA	Portage	SP10-026	337	339	KCC (2020)	6.5	3.1	0.050	3.0	97	95	11	None	--	<0.020	1.7	0.11	0.018
009699	Ore-Grade Materials	TRA	Portage	SP11-059	332	334	KCC (2020)	7.8	4.7	0.040	4.7	147	145	9.6	None	--	<0.020	1.7	0.066	0.012
009700	Ore-Grade Materials	TRA	Portage	SP11-038	191	193	KCC (2020)	8.1	3.9	0.040	3.8	121	120	9.9	None	--	<0.020	1.7	0.083	0.014
A00356157	Mine Rock	TRA	Portage	SP11-037	249	251	KCC (2020)	7.0	4.5	0.063	4.4	139	137	5.1	None	--	0.090	7.5	0.037	0.055
A00356158	Mine Rock	TRA	Portage	SP11-037	331	335	KCC (2020)	8.1	0.58	0.027	0.55	18	17	5.1	None	--	0.030	2.5	0.30	0.15
A00356161	Mine Rock	TRA	Portage	SP11-033	331	333	KCC (2020)	8.9	0.29	0.030	0.26	9.1	8.1	93	Moderate	--	0.67	56	11	6.9
A00356163	Mine Rock	TRA	Portage	SP11-033	46	49	KCC (2020)	6.9	1.6	0.050	1.5	50	48	2.5	None	--	0.060	5.0	0.052	0.10
A00356170	Mine Rock	TRA	East Extension	SP11-067	82	84	KCC (2020)	9.6	0.030	0.030	0.010	0.94	0.31	245	Strong	--	3.3	271	784	867
A00356172	Mine Rock	TRA	East Extension	SP10-017	107.5	109.5	KCC (2020)	9.8	0.16	0.040	0.12	5.0	3.8	125	Moderate	--	1.8	152	33	40
A00356178	Mine Rock	TRA	East Extension	SP10-018	92	94	KCC (2020)	9.3	1.2	0.040	1.2	39	38	98	Moderate	--	1.5	122	2.6	3.2
A00356179	Mine Rock	TRA	East Extension	SP10-018	32	34	KCC (2020)	9.3	0.17	0.040	0.13	5.2	3.9	214	Strong	--	3.1	259	54	66
A00356182	Ore-Grade Materials	TRA	Portage	SP10-006	321	323	KCC (2020)	4.6	5.1	0.050	5.1	160	158	7.4	None	--	<0.020	1.7	0.047	0.011
A00356183	Mine Rock	TRA	Portage	SP11-059	73	75	KCC (2020)	9.3	2.6	0.030	2.5	80	79	111	Strong	--	1.1	89	1.4	1.1
A00356184	Mine Rock	TRA	Portage	SP10-022	22	24	KCC (2020)	9.3	0.28	0.030	0.25	8.8	7.8	167	Strong	--	1.7	138	21	18
A00356185	Mine Rock	TRA	Portage	SP10-022	261	263	KCC (2020)	7.3	1.8	0.060	1.8	58	56	46	Slight	--	0.95	79	0.83	1.4
A00356186	Mine Rock	TRA	Portage	SP10-022	334	336	KCC (2020)	7.4	6.1	0.050	6.1	191	189	117	Strong	--	1.2	97	0.62	0.51
A00356188	Ore-Grade Materials	TRA	Portage	SP11-053	286	288	KCC (2020)	7.7	6.2	0.040	6.2	195	194	6.9	None	--	0.020	1.7	0.036	0.0086
A00356194	Ore-Grade Materials	TRA	Portage	SP11-033	238	239.5	KCC (2020)	6.3	1.2	0.040	1.2	38	37	4.1	None	--	0.020	1.7	0.11	0.045
A00356195	Mine Rock	TRA	Portage	SP11-071	36	38	KCC (2020)	9.2	1.6	0.050	1.6	50	48	170	Strong	--	1.6	133	3.5	2.8
A00356198	Ore-Grade Materials																			

Table B-1. Acid Base Accounting Results

Sample ID	Classification	Final Lithology Group	Zone	Drillhole	From	To	Data Source	Paste pH	Total Sulphur ^(A)	Sulphate Sulphur ^(B)	Sulphide Sulphur ^(C)	MPA ^(D)	AP ^(E)	Sobek NP ^(F)	Fizz Rating	Total Carbon ^(G)	Total Inorganic Carbon ^(H)	CarbNP ^(I)	NPR ^(J)	CarbNPR ^(K)
Units					m	m		pH Units	%	%	%	kg CaCO ₃ /t	kg CaCO ₃ /t	kg CaCO ₃ /t	Unity	%	%	kg CaCO ₃ /t	NP/AP	CarbNP/AP
09870	Mine Rock	TRA	Portage	SP11-078	383	385	KCC (2020)	6.1	0.86	0.070	0.79	27	25	17	None	--	0.33	28	0.70	1.1
09877	Mine Rock	TRA	Portage	SP11-081	83.8	85.8	KCC (2020)	9.1	0.90	0.040	0.86	28	27	252	Strong	--	3.0	246	9.4	9.2
09879	Ore-Grade Materials	TRA	Portage	SP11-083	42.5	44.5	KCC (2020)	5.6	7.2	0.040	7.2	226	225	5.9	None	--	0.030	2.5	0.026	0.011
09881	Ore-Grade Materials	TRA	Portage	SP11-084	39	41	KCC (2020)	6.4	4.3	0.070	4.2	134	132	4.9	None	--	0.030	2.5	0.037	0.019
09885	Mine Rock	TRA	Portage	SP11-094	122.5	124.5	KCC (2020)	8.8	2.1	0.040	2.0	64	63	148	Strong	--	2.2	179	2.3	2.8
09891	Ore-Grade Materials	TRA	Portage	SP11-091	82.2	84	KCC (2020)	4.3	3.9	0.050	3.8	120	119	5.6	None	--	<0.020	1.7	0.047	0.014
09892	Ore-Grade Materials	TRA	Portage	SP11-083	146	148	KCC (2020)	6.7	4.2	0.040	4.2	132	131	3.6	None	--	<0.020	1.7	0.027	0.013
R00017801	Mine Rock	TRA	Camp	BL-0282D	52.85	53.46	KCC (2020)	9.2	0.47	<0.010	0.46	15	14	89	Strong	--	1.5	123	6.1	8.5
R00017838	Mine Rock	TRA	Camp	BL-0282D	100.49	100.89	KCC (2020)	9.2	0.098	0.020	0.078	3.1	2.4	184	Strong	--	1.8	148	75	61
R00017860	Mine Rock	TRA	Camp	BL-0285D	73.91	75.68	KCC (2020)	9.1	1.3	0.020	1.3	42	41	177	Strong	--	1.7	144	4.3	3.5
R00017840	Mine Rock	TRA	Camp	BL-0285D	100.77	101.16	KCC (2020)	8.9	0.14	0.020	0.12	4.3	3.7	155	Strong	--	1.4	118	42	32
R00017842	Mine Rock	TRA	Camp	BL-0285D	143.59	144.11	KCC (2020)	9.1	0.74	<0.010	0.73	23	23	176	Strong	--	1.6	129	7.7	5.7
R00017909	Mine Rock	TRA	Camp	BL-0282D	84.25	84.64	KCC (2020)	8.7	0.44	0.020	0.42	14	13	177	Strong	--	1.5	122	13	9.2
R00017886	Mine Rock	TRA	Portage	BL-0297	10	10.79	KCC (2020)	9.2	2.2	0.020	2.2	69	69	270	Strong	--	2.9	240	3.9	3.5
R00017887	Ore-Grade Materials	TRA	Portage	BL-0297	24.84	25.12	KCC (2020)	8.9	2.3	0.030	2.3	72	71	232	Strong	--	3.0	246	3.3	3.5
R00017888	Mine Rock	TRA	Portage	BL-0297	47.85	48.46	KCC (2020)	8.8	2.3	0.030	2.2	70	69	264	Strong	--	2.7	227	3.8	3.3
R00017889	Mine Rock	TRA	Portage	BL-0297	83.39	83.7	KCC (2020)	9.0	0.65	0.030	0.62	20	19	208	Strong	--	1.8	146	11	7.5
R00017814	Mine Rock	TRA	Camp	BL-0304D	91.29	91.9	KCC (2020)	9.3	0.44	0.040	0.40	14	13	204	Strong	--	1.8	148	16	12
R00017847	Mine Rock	TRA	Camp	BL-0304D	117.65	118.26	KCC (2020)	9.1	0.53	0.040	0.49	17	15	189	Strong	--	1.3	108	12	7.0
R00017902	Mine Rock	TRA	Portage	BL-0308	325.95	326.65	KCC (2020)	9.2	1.3	0.020	1.2	39	39	142	Strong	--	1.4	116	3.7	3.0
R00017903	Ore-Grade Materials	TRA	Portage	BL-0308	350.73	351.86	KCC (2020)	7.1	5.9	0.050	5.9	185	184	17	None	--	0.19	16	0.093	0.086
R00017875	Ore-Grade Materials	TRA	Portage	BL-0308	375.82	377.34	KCC (2020)	7.0	3.7	0.040	3.6	114	113	9.0	None	--	0.26	22	0.080	0.19
R00017911	Mine Rock	TRA	East Extension	BL-0346	6.4	7.07	KCC (2020)	8.1	5.4	0.040	5.4	169	168	128	Moderate	--	1.7	143	0.76	0.85
R00017914	Mine Rock	TRA	Portage	BL-0323	150.42	150.88	KCC (2020)	8.2	0.035	0.020	0.015	1.1	0.47	160	Strong	--	0.84	70	341	149
R00017915	Mine Rock	TRA	Portage	BL-0323	253.14	254.05	KCC (2020)	8.3	1.6	0.020	1.5	48	48	8.1	None	--	0.15	13	0.17	0.26
R00017916	Mine Rock	TRA	Portage	BL-0323	300.26	301.17	KCC (2020)	8.6	2.1	0.040	2.1	67	66	119	Moderate	--	0.70	58	1.8	0.89
R00017917	Mine Rock	TRA	Portage	BL-0323	400.81	401.73	KCC (2020)	8.5	2.1	0.040	2.1	66	65	138	Strong	--	1.1	89	2.1	1.4
R00017920	Mine Rock	TRA	East Extension	BL-0326	65.62	66.26	KCC (2020)	8.3	3.8	0.040	3.8	119	118	221	Moderate	--	2.9	239	1.9	2.0
R00017929	Mine Rock	TRA	East Extension	BL-0330	74.49	75.13	KCC (2020)	9.0	1.3	0.020	1.3	41	40	154	Strong	--	2.1	177	3.8	4.4
R00017939	Mine Rock	TRA	East Extension	BL-0347	10.67	11.58	KCC (2020)	8.5	3.0	0.030	2.9	93	92	196	Strong	--	2.9	241	2.1	2.6
R00017947	Mine Rock	TRA	Camp	BL-0356	46.02	47.3	KCC (2020)	9.3	0.56	0.030	0.53	18	17	115	Moderate	--	1.2	98	6.9	5.8
R00017949	Mine Rock	TRA	East Extension	BL-0365	25.39	26.52	KCC (2020)	8.8	0.41	0.030	0.38	13	12	128	Strong	--	1.9	156	11	13
R00017950	Mine Rock	TRA	East Extension	BL-0365	49.26	50.08	KCC (2020)	8.7	0.56	0.030	0.53	17	16	194	Strong	--	1.6	129	12	7.9
R00017951	Mine Rock	TRA	East Extension	BL-0365	78.79	79.86	KCC (2020)	9.4	1.6	0.030	1.6	50	49	77	Strong	--	0.96	80	1.6	1.6
W-010	Mine Rock	TRA	Portage	PM-DH-03	302	303	WSP (2021)	7.9	0.90	0.030	0.87	28	27	17	None	0.26	<0.020	1.7	0.61	0.061
W-012	Ore-Grade Materials	TRA	Portage	PM-DH-03	349	350	WSP (2021)	7.5	7.5	0.030	7.4	233	232	3.3	None	<0.020	<0.020	1.7	0.014	0.0072
W-014	Ore-Grade Materials	TRA	Portage	PM-DH-03	245	246	WSP (2021)	7.9	7.0	0.030	6.9	217	216	10	None	0.42	<0.020	1.7	0.047	0.0077
W-016	Ore-Grade Materials	TRA	Portage	SM20-001	5	6	WSP (2021)	9.3	1.1	<0.010	1.1	33	33	104	Strong	1.2	0.98	82	3.1	2.5
W-019	Ore-Grade Materials	TRA	Portage	PM-DH-03	51	52	WSP (2021)	6.8	4.5	0.040	4.5	141	140	4.7	None	<0.020	<0.020	1.7	0.034	0.012
W-020	Mine Rock	TRA	Portage	SM20-001	254	255	WSP (2021)	8.7	2.9	<0.010	2.9	92	92	8.4	None	<0.020	<0.020	1.7	0.092	0.018
W-022	Ore-Grade Materials	TRA	Portage	SM20-001	311	312	WSP (2021)	6.3	1.5	0.030	1.5	48	47	8.1	None	<0.020	<0.020	1.7	0.17	0.036
W-023	Ore-Grade Materials	TRA	Portage	PM-DH-03	150	151	WSP (2021)	7.9	0.89	0.040	0.85	28	27	17	None	0.10	<0.020	1.7	0.62	0.063
W-025	Ore-Grade Materials	TRA	Portage	PM-DH-03	200	201	WSP (2021)	7.9	2.4	<0.010	2.4	76	75	14	None	0.16	0.030	2.5	0.18	0.033
W-026	Ore-Grade Materials	TRA	Portage	SM20-002	388	389	WSP (2021)	7.9	2.7	<0.010	2.7	83	83	13	None	0.050	<0.020	1.7	0.16	0.020
W-029	Mine Rock	TRA	Portage	SM20-001	100	101	WSP (2021)	8.3	1.9	0.050	1.8	58	57	13	None	<0.020	<0.020	1.7	0.23	0.029
W-030	Ore-Grade Materials	TRA	Portage	SM20-002	263	264	WSP (2021)	7.9	2.7	0.020	2.7	84	83	5.3	None	<0.020	<0.020	1.7	0.064	0.020
W-035	Mine Rock	TRA	Portage	SM20-001	200	201	WSP (2021)	8.3	1.3	<0.010	1.3	42	41	4.2	None	<0.020	<0.020	1.7	0.10	0.040
W-036	Mine Rock	TRA	Portage	SP11-088	344.5	346	WSP (2021)	6.4	2.1	0.050	2.0	64	63	6.7	None	0.30	<0.020	1.7	0.11	0.027
W-039	Mine Rock	TRA	Portage	SM20-002	150	151	WSP (2021)	9.3	0.16	0.040	0.12	5.0	3.8	148	Moderate	2.0	1.7	144	39	38
W-040	Ore-Grade Materials	TRA	Portage	SM20-003	401	402	WSP (2021)	8.2	4.6	0.040	4.6	145	143	13	None	<0.020	<0.020	1.7	0.093	0.012
W-041	Mine Rock	TRA	Portage	SM20-002	13	14	WSP (2021)	9.6	0.080	<0.010	0.070	2.5	2.2	170	Moderate	2.1	2.0	165	78	75
W-048	Ore-Grade Materials	TRA	Portage	SP12-151	147	149	WSP (2021)	8.1	3.6	0.030	3.5	111	110	11	None	<0.020	<0.020	1.7	0.10	0.015
W-050	Mine Rock	TRA	Camp	SP12-135	99	101	WSP (2021)	9.1	0.25	0.020	0.23	7.8	7.2	161	Moderate	2.2	2.0	167	22	23
W-054	Mine Rock	TRA	Camp	SP12-135	128.7	130	WSP (2021)	8.9	2.7	<0.010	2.7	84	84	166	Strong	2.0	1.4	120	2.0	1.4
W-069	Mine Rock	TRA	Camp	SP12-135	113	115	WSP (2021)	9.1	1.2	0.030	1.2	37	36	62	Moderate	0.79	0.47	39	1.7	1.1
W-071	Mine Rock	TRA	Camp	SP12-135	57	59	WSP (2021)	9.0	2.2	0.030	2.2	70	69	132	Moderate	1.8	1.4	113	1.9	1.6
W-072	Mine Rock	TRA	Portage	SP12-123	303	305	WSP (2021)	7.7	1.2	0.070	1.1	37	35	17	None	0.080	<0.020	1.7	0.48	0.048
W-073	Mine Rock	TRA	Camp	SP12-135	81	83	WSP (2021)	8.4	1.9	0.030	1.9	60	59	138	Moderate	2.0	1.6	133	2.3	2.3
W-074	Mine Rock	TRA	Portage	SP12-123	249	251	WSP (2021)	9.0	0.060	0.030	0.030	1.9	0.94	108	Strong	1.1	1.0	86	116	92
W-075	Mine Rock	TRA	Camp	SP12-135	148	149	WSP (2021)	9.2	0.34	0.030	0.31	11	9.7	122	Strong	1.5	1.3	111	13	11
W-076	Mine Rock	TRA	Portage	SP12-123	198	200	WSP (2021)	9.2	0.91	<0.010	0.90	28	28	88	Strong	0.95	0.76	63	3.1	2.3
W-088	Mine Rock	TRA	Portage	SP12-113	400	401	WSP (2021)	7.3	2.7	0.030	2.7	86	85	14	None	0.52	0.070	5.8	0.16	0.069
W-090	Mine Rock	TRA	Portage	SP12-113	447	448	WSP (2021)	8.2	1.1	0.030	1.0	33	33	22	None	0.22	0.10	8.3	0.67	0.26
W-103	Mine Rock	TRA	Portage	SP12-123	477	479	WSP (2021)	7.6	1.9	0.030	1.8	58	57	15	None	0.17	<0.020	1.7	0.27	0.029
W-105	Mine Rock	TRA	Portage	SP12-123	501	503	WSP (2021)	8.1	1.4	0.030	1.4	43	42	10	None	0.15	<0.020	1.7	0.24	0.040
W-111	Mine Rock																			

Table B-1. Acid Base Accounting Results

Sample ID	Classification	Final Lithology Group	Zone	Drillhole	From	To	Data Source	Paste pH	Total Sulphur ^(A)	Sulphate Sulphur ^(B)	Sulphide Sulphur ^(C)	MPA ^(D)	AP ^(E)	Sobek NP ^(F)	Fizz Rating	Total Carbon ^(G)	Total Inorganic Carbon ^(H)	CarbNP ^(I)	NPR ^(J)	CarbNPR ^(K)
Units					m	m		pH Units	%	%	%	kg CaCO ₃ /t	kg CaCO ₃ /t	kg CaCO ₃ /t	Unity	%	%	kg CaCO ₃ /t	NP/AP	CarbNP/AP
W-213	Mine Rock	TRA	Portage	SG13-205	151	153	WSP (2021)	7.0	5.2	0.050	5.2	163	161	17	None	0.32	0.070	5.8	0.11	0.036
W-217	Mine Rock	TRA	Portage	SG13-206	249	251	WSP (2021)	9.0	3.9	0.020	3.9	122	121	105	Strong	1.2	0.81	68	0.87	0.56
W-226	Ore-Grade Materials	TRA	Portage	SP11-050	150	151	WSP (2021)	8.9	1.6	0.030	1.5	49	48	12	None	0.32	0.12	10	0.25	0.21
W-228	Mine Rock	TRA	Portage	SP11-050	201	202	WSP (2021)	9.1	2.3	0.030	2.3	72	71	27	None	0.46	0.12	10	0.38	0.14
W-231	Mine Rock	TRA	Portage	SP12-180	198	200	WSP (2021)	8.9	0.19	0.030	0.16	5.9	5.0	13	None	0.21	<0.020	1.7	2.6	0.33
W-233	Mine Rock	TRA	Portage	SP12-180	56.5	57.9	WSP (2021)	8.2	<0.010	<0.010	<0.010	0.31	0.31	15	None	0.050	<0.020	1.7	47	5.3
W-240	Mine Rock	TRA	Portage	SP12-185	99	101	WSP (2021)	9.2	0.38	0.030	0.35	12	11	170	Moderate	2.5	2.2	186	16	17
W-241	Mine Rock	TRA	East Extension	SP11-067	79	80	WSP (2021)	9.5	<0.010	0.010	<0.010	0.31	0.31	161	Moderate	2.4	2.3	195	514	624
W-243	Mine Rock	TRA	East Extension	SP11-067	59	60	WSP (2021)	9.5	<0.010	0.010	<0.010	0.31	0.31	148	Moderate	1.9	1.9	156	475	499
W-245	Mine Rock	TRA	East Extension	SP11-067	70	71	WSP (2021)	9.5	<0.010	0.010	<0.010	0.31	0.31	164	Moderate	2.1	2.1	173	523	552
W-254	Mine Rock	TRA	Portage	SGH20-009	145	146	WSP (2021)	8.4	0.32	0.030	0.29	10	9.1	86	Strong	0.77	0.72	60	9.5	6.6
W-256	Mine Rock	TRA	Portage	SGH20-007	17	18	WSP (2021)	9.1	0.24	<0.010	0.23	7.5	7.2	80	Strong	1.2	1.1	92	11	13
W-266	Ore-Grade Materials	TRA	Portage	SM20-003	298	299	WSP (2021)	8.0	3.1	0.040	3.1	97	96	9.2	None	0.19	<0.020	1.7	0.096	0.017
W-267	Mine Rock	TRA	Portage	SP12-185	51	53	WSP (2021)	9.4	0.29	0.030	0.26	9.1	8.1	150	Strong	2.2	2.0	163	18	20
W-268	Ore-Grade Materials	TRA	Portage	SM20-003	356	357	WSP (2021)	8.1	7.1	0.040	7.0	221	219	4.7	None	<0.020	<0.020	1.7	0.021	0.0076
W-271	Mine Rock	TRA	Portage	SP12-185	9	11	WSP (2021)	9.1	0.35	0.030	0.32	11	10	149	Strong	2.0	1.7	144	15	14
W-272	Mine Rock	TRA	Portage	SGH20-006	304	305	WSP (2021)	8.5	5.0	0.030	5.0	156	155	79	Strong	0.88	0.49	41	0.51	0.26
W-274	Mine Rock	TRA	Portage	SGH20-006	352	353	WSP (2021)	8.8	3.3	0.030	3.3	103	103	125	Strong	1.4	0.79	66	1.2	0.64
W-278	Mine Rock	TRA	Portage	SGH20-006	17	18	WSP (2021)	8.8	3.2	0.010	3.2	101	101	153	Moderate	2.0	1.3	109	1.5	1.1
W-280	Mine Rock	TRA	Portage	SGH20-006	110	111	WSP (2021)	9.0	3.4	0.010	3.4	107	107	148	Moderate	2.0	1.1	95	1.4	0.89
W-290	Mine Rock	TRA	Portage	SGH20-006	155	156	WSP (2021)	9.2	0.55	0.010	0.54	17	17	201	Strong	2.8	2.7	223	12	13
W-302	Mine Rock	TRA	Portage	SGH20-006	229	230	WSP (2021)	9.4	0.89	0.010	0.88	28	28	181	Moderate	2.8	2.5	207	6.6	7.5
W-307	Mine Rock	TRA	Portage	SM20-003	157	158	WSP (2021)	8.7	3.1	0.10	3.0	98	95	71	Strong	0.71	0.46	38	0.75	0.40
W-310	Mine Rock	TRA	Camp	SPW20-001	36	37	WSP (2021)	8.8	3.5	<0.010	3.5	109	109	57	Moderate	0.79	0.36	30	0.52	0.28
W-314	Mine Rock	TRA	Camp	SPW20-001	5	6	WSP (2021)	8.6	3.6	0.030	3.6	112	111	107	Strong	1.2	0.76	63	0.96	0.57
W-324	Mine Rock	TRA	Portage	SGH20-006	59	51	WSP (2021)	9.1	0.40	0.030	0.37	13	12	195	Strong	2.5	2.3	193	16	17
W-325	Mine Rock	TRA	Portage	SGH20-006	255	256	WSP (2021)	8.4	2.1	0.040	2.1	66	65	123	Moderate	1.5	1.1	88	1.9	1.4
M112031	Ore-Grade Materials	TRA	East Extension	SM21-001	25	27	WSP (2021)	9.0	1.3	<0.010	1.3	40	40	162	Moderate	2.0	1.4	120	4.1	3.0
M112041	Mine Rock	TRA	East Extension	SM21-001	34	35	WSP (2021)	9.4	0.43	<0.010	0.42	13	13	126	Strong	1.5	1.4	114	9.6	8.7
M112086	Mine Rock	TRA	East Extension	SM21-001	89	90	WSP (2021)	9.1	0.62	<0.010	0.61	19	19	108	Moderate	1.4	0.88	73	5.6	3.8
M112119	Mine Rock	TRA	East Extension	SM21-002	31	32	WSP (2021)	9.2	0.40	<0.010	0.39	13	12	177	Strong	2.3	2.0	164	15	13
M112122	Mine Rock	TRA	East Extension	SM21-002	34	35	WSP (2021)	9.1	0.48	<0.010	0.47	15	15	132	Strong	1.6	1.5	126	9.0	8.6
M112128	Mine Rock	TRA	East Extension	SM21-002	39	40	WSP (2021)	8.9	0.17	<0.010	0.16	5.3	5.0	162	Strong	2.0	1.9	157	32	31
M112133	Mine Rock	TRA	East Extension	SM21-002	44	45	WSP (2021)	8.9	0.63	<0.010	0.62	20	19	184	Strong	2.3	2.2	181	9.5	9.3
M112149	Mine Rock	TRA	East Extension	SM21-002	61	62	WSP (2021)	9.0	0.48	<0.010	0.47	15	15	96	Moderate	1.2	0.92	77	6.6	5.2
M112153	Mine Rock	TRA	East Extension	SM21-002	65	66	WSP (2021)	9.0	0.83	<0.010	0.82	26	26	75	Moderate	0.88	0.56	47	2.9	1.8
M112158	Mine Rock	TRA	East Extension	SM21-002	69	70	WSP (2021)	9.1	0.25	<0.010	0.24	7.8	7.5	116	Moderate	1.5	0.96	80	16	11
M112163	Mine Rock	TRA	East Extension	SM21-002	74	75	WSP (2021)	9.0	0.53	<0.010	0.52	17	16	77	Moderate	1.0	0.64	53	47	3.3
A00356152	Mine Rock	VBX	Portage	SP11-037	75	77	KCC (2020)	6.8	0.33	0.030	0.30	10	9.4	-1.1	None	--	0.020	1.7	0.053	0.18
A00356154	Ore-Grade Materials	VBX	Portage	SP11-037	157	159	KCC (2020)	6.9	2.0	0.040	2.0	63	61	0.10	None	--	0.020	1.7	0.0016	0.028
009595	Ore-Grade Materials	VBX	Portage	SP12-171	308.1	310	KCC (2020)	8.4	3.3	0.070	3.2	103	101	273	Strong	--	2.1	177	2.7	1.8
ABA-079	Mine Rock	VBX	East Extension	BL-0014	50.9	52.43	MDAG (2012)	9.0	2.5	0.010	2.5	78	78	93	3	1.0	0.96	80	1.2	1.0
ABA-080	Mine Rock	VBX	East Extension	BL-0014	98.76	100.28	MDAG (2012)	9.5	0.76	0.010	0.75	24	23	221	3	2.9	2.9	239	9.4	10
ABA-036	Mine Rock	VBX	East Extension	BL-0162	49.68	51.21	MDAG (2012)	9.7	1.6	<0.0050	1.6	51	51	145	3	1.6	1.6	132	2.9	2.6
ABA-037	Ore-Grade Materials	VBX	East Extension	BL-0223	99.06	100.58	MDAG (2012)	9.6	2.0	<0.0050	2.0	63	62	135	3	1.6	1.5	127	2.2	2.0
ABA-031	Mine Rock	VBX	Camp	BL-0184	52.12	53.04	MDAG (2012)	9.0	1.7	0.010	1.7	53	52	230	3	2.4	2.4	202	4.4	3.9
ABA-064	Mine Rock	VBX	Portage	BL-0321	6.71	7.62	MDAG (2012)	8.6	0.050	0.020	0.030	1.6	0.94	18	2	1.0	0.97	82	19	87
ABA-063	Mine Rock	VBX	Portage	BL-0321	65.23	66.14	MDAG (2012)	9.4	0.050	0.010	0.040	1.6	1.3	124	3	1.7	1.6	134	99	107
ABA-065	Mine Rock	VBX	Portage	BL-0321	127.1	128.02	MDAG (2012)	9.4	1.4	0.010	1.4	45	44	158	3	2.0	2.0	166	3.6	3.7
ABA-062	Mine Rock	VBX	Portage	BL-0321	196.44	197.05	MDAG (2012)	9.4	0.61	<0.0050	0.61	19	19	170	3	2.1	2.0	166	9.0	8.8
ABA-178	Mine Rock	VBX	Portage	SP10-002	365	366	MDAG (2012)	7.3	3.4	0.040	3.4	108	106	8.0	1	0.060	0.025	2.3	0.075	0.021
ABA-105	Mine Rock	VBX	Portage	SP10-019	127	128	MDAG (2012)	9.2	1.9	<0.0050	1.9	61	60	74	3	0.94	0.83	68	1.2	1.1
ABA-110	Ore-Grade Materials	VBX	Portage	SP10-019	247	250	MDAG (2012)	8.4	3.0	<0.0050	3.0	94	94	13	1	0.34	0.29	25	0.14	0.27
ABA-183	Mine Rock	VBX	Portage	SP11-039	60	63	MDAG (2012)	8.6	1.3	0.060	1.2	39	37	71	2	0.97	0.92	77	1.9	2.1
ABA-182	Mine Rock	VBX	Portage	SP11-039	114	117	MDAG (2012)	8.6	1.6	0.050	1.5	49	48	9.0	1	0.080	0.070	4.5	0.19	0.096
ABA-097	Mine Rock	VBX	Portage	SP11-046	306.5	307.5	MDAG (2012)	9.3	1.4	<0.0050	1.4	44	44	12	1	0.17	0.10	9.1	0.27	0.21
ABA-117	Mine Rock	VBX	Portage	SP11-068	121	122	MDAG (2012)	9.1	2.6	0.030	2.6	82	81	204	3	2.6	2.6	214	2.5	2.6
ABA-130	Mine Rock	VBX	Portage	SP11-068	300	301	MDAG (2012)	9.1	1.1	0.010	1.1	36	35	155	3	1.6	1.6	134	4.4	3.8
ABA-129	Mine Rock	VBX	Portage	SP11-068	360	361	MDAG (2012)	9.3	1.4	0.010	1.4	44	44	139	3	1.4	1.4	116	3.2	2.7
009507	Mine Rock	VBX	Portage	SP12-133	39	41	KCC (2020)	9.5	0.38	0.030	0.35	12	11	199	Moderate	--	2.4	203	18	19
009509	Mine Rock	VBX	Camp	SP12-132	27	29	KCC (2020)	8.7	1.0	0.050	0.97	32	30	61	Moderate	--	0.55	46	2.0	1.5
009514	Mine Rock	VBX	Portage	SP12-131	207	209	KCC (2020)	8.0	2.2	<0.010	2.2	68	68	128	Strong	--	1.5	127	1.9	1.9
009522	Ore-Grade Materials	VBX	Camp	SP12-126	238.5	231.5	KCC (2020)	9.3	2.2	0.030	2.2	69	68	194	Strong	--	1.7	144	2.8	2.1
009525	Mine Rock	VBX	Portage	SP12-127	149	151	KCC (2020)	8.2	1.5	0.040	1.5	47	45	5.4	None	--	0.080	6.7	0.12	0.15
009537	Mine Rock	VBX	Portage	SP12-119A	198	199	KCC (2020)	9.2	2.9	0.030	2.8	89	88	237	Strong	--	2.0	164	2.7	1.9
009541	Mine Rock	VBX	Portage	SP12-114	279.5	280.5	KCC (2020)	8.5	2.5	0.030										

Table B-1. Acid Base Accounting Results

Sample ID	Classification	Final Lithology Group	Zone	Drillhole	From	To	Data Source	Paste pH	Total Sulphur ^(A)	Sulphate Sulphur ^(B)	Sulphide Sulphur ^(C)	MPA ^(D)	AP ^(E)	Sobek NP ^(F)	Fizz Rating	Total Carbon ^(G)	Total Inorganic Carbon ^(H)	CarbNP ^(I)	NPR ^(J)	CarbNPR ^(K)
Units					m	m		pH Units	%	%	%	kg CaCO ₃ /t	kg CaCO ₃ /t	kg CaCO ₃ /t	Unity	%	%	kg CaCO ₃ /t	NP/AP	CarbNP/AP
009590	Mine Rock	VBX	Portage	SP12-170A	404	405.9	KCC (2020)	8.2	2.9	0.20	2.7	91	84	82	Moderate	--	0.57	48	0.98	0.56
009594	Ore-Grade Materials	VBX	Portage	SP12-171	271	273	KCC (2020)	8.6	4.2	<0.010	4.2	131	130	30	Slight	--	0.23	19	0.23	0.15
009601	Ore-Grade Materials	VBX	Portage	SP12-160	342	345	KCC (2020)	8.8	2.4	0.050	2.4	76	74	92	Moderate	--	0.81	68	1.2	0.91
009603	Ore-Grade Materials	VBX	Portage	SP12-185	199	201	KCC (2020)	8.6	4.7	0.030	4.7	148	147	145	Strong	--	1.5	123	0.99	0.84
009604	Mine Rock	VBX	Portage	SP12-185	159	161	KCC (2020)	9.3	0.15	0.030	0.12	4.5	3.6	201	Strong	--	2.4	203	56	56
009605	Mine Rock	VBX	Portage	SP12-184	211	213	KCC (2020)	9.6	0.27	<0.010	0.26	8.6	8.3	129	Strong	--	1.1	91	16	11
009620	Ore-Grade Materials	VBX	Portage	SP12-160	21.6	23.6	KCC (2020)	8.2	2.5	0.030	2.5	79	78	12	None	--	0.21	18	0.16	0.22
009623	Ore-Grade Materials	VBX	Portage	SP12-177A	259	261	KCC (2020)	7.9	3.4	0.050	3.4	107	105	6.9	None	--	<0.020	1.7	0.066	0.016
009625	Mine Rock	VBX	Portage	SP12-154	130	132	KCC (2020)	9.1	1.0	0.030	0.99	32	31	112	Strong	--	1.0	86	3.6	2.8
009643	Ore-Grade Materials	VBX	Portage	SP13-209	158	160	KCC (2020)	8.7	3.8	<0.010	3.8	119	119	156	Strong	--	1.7	139	1.3	1.2
009655	Ore-Grade Materials	VBX	Portage	SP12-161	265	267	KCC (2020)	7.1	4.8	0.060	4.7	150	148	9.4	None	--	0.10	8.5	0.063	0.056
009660	Mine Rock	VBX	Portage	SP13-213	99	101	KCC (2020)	8.0	0.85	0.040	0.81	26	25	11	None	--	0.060	5.0	0.43	0.20
009663	Mine Rock	VBX	Portage	SP12-199	130	132	KCC (2020)	7.0	2.2	0.050	2.2	70	68	3.1	None	--	<0.020	1.7	0.046	0.025
009669	Ore-Grade Materials	VBX	Portage	SP12-162B	95.8	97.8	KCC (2020)	8.1	1.7	0.030	1.7	54	53	18	None	--	0.10	8.3	0.34	0.16
009672	Mine Rock	VBX	Portage	SP12-199	304.5	306.4	KCC (2020)	7.8	1.9	0.040	1.8	58	57	12	None	--	<0.020	1.7	0.22	0.030
009680	Ore-Grade Materials	VBX	Portage	SP13-218	120.2	122	KCC (2020)	8.3	1.9	0.030	1.8	58	57	16	Slight	--	0.18	15	0.28	0.26
009683	Ore-Grade Materials	VBX	Portage	SP12-168	142	144	KCC (2020)	9.0	2.6	0.030	2.6	81	80	179	Strong	--	1.9	159	2.3	2.0
009684	Ore-Grade Materials	VBX	Portage	SP12-168	208	209.9	KCC (2020)	8.8	2.8	0.040	2.8	88	86	150	Strong	--	1.6	132	1.7	1.5
009690	Mine Rock	VBX	Portage	SP11-044	124	126	KCC (2020)	7.7	4.6	0.040	4.6	144	143	43	Moderate	--	0.16	13	0.30	0.093
009691	Mine Rock	VBX	Portage	SP11-044	177	179	KCC (2020)	8.3	0.24	0.030	0.21	7.6	6.7	5.4	None	--	0.030	2.5	0.81	0.37
009695	Mine Rock	VBX	Portage	SP10-026	165.5	167	KCC (2020)	8.8	2.3	0.040	2.2	71	70	102	Strong	--	0.91	76	1.5	1.1
A00356151	Ore-Grade Materials	VBX	Portage	SP11-038	157	166	KCC (2020)	6.8	1.0	0.040	0.98	32	31	3.9	None	--	<0.020	1.7	0.13	0.056
A00356156	Mine Rock	VBX	Portage	SP11-037	233	235	KCC (2020)	8.1	0.030	0.020	0.010	0.94	0.31	3.9	None	--	0.050	4.2	12	13
A00356162	Ore-Grade Materials	VBX	Portage	SP11-033	140	142	KCC (2020)	7.4	2.1	0.030	2.1	67	66	6.6	None	--	0.050	4.2	0.10	0.063
A00356168	Mine Rock	VBX	Portage	SP10-003	197	199	KCC (2020)	9.2	1.2	0.040	1.2	38	37	203	Strong	--	2.3	195	5.5	5.2
A00356169	Mine Rock	VBX	East Extension	SP11-067	23	25	KCC (2020)	9.3	2.5	0.030	2.4	77	76	116	Strong	--	1.3	105	1.5	1.4
A00356177	Mine Rock	VBX	Portage	SP11-059	125	127	KCC (2020)	6.5	5.0	0.050	5.0	157	155	91	Moderate	--	0.73	61	0.59	0.39
A00356180	Mine Rock	VBX	East Extension	SP10-018	75	77	KCC (2020)	9.3	1.2	0.040	1.1	36	35	157	Strong	--	1.9	156	4.5	4.5
A00356189	Ore-Grade Materials	VBX	Portage	SP11-063	224	225	KCC (2020)	5.4	5.2	0.050	5.2	163	162	7.1	None	--	<0.020	1.7	0.044	0.010
A00356190	Mine Rock	VBX	Portage	SP10-022	379.3	381	KCC (2020)	8.1	1.2	0.040	1.1	37	36	76	Moderate	--	0.91	76	2.1	2.1
A00356197	Ore-Grade Materials	VBX	Portage	SP11-071	242.5	244.5	KCC (2020)	7.0	5.4	0.040	5.4	169	168	17	Slight	--	0.10	8.3	0.10	0.050
009701	Mine Rock	VBX	Portage	SP12-112	222	224	KCC (2020)	7.6	2.3	0.050	2.3	73	71	11	Slight	--	0.13	11	0.15	0.15
09865	Ore-Grade Materials	VBX	Portage	SP11-077	163	164	KCC (2020)	8.6	4.4	0.040	4.4	138	136	221	Strong	--	2.5	208	1.6	1.5
09867	Mine Rock	VBX	Portage	SP11-077	197	198	KCC (2020)	8.4	2.7	0.040	2.7	85	84	92	Strong	--	0.60	50	1.1	0.60
09868	Mine Rock	VBX	Portage	SP11-078	198	199	KCC (2020)	8.4	0.34	0.050	0.29	11	9.1	14	None	--	0.76	63	1.6	6.9
09871	Mine Rock	VBX	Portage	SP11-080	29	31	KCC (2020)	6.8	2.4	0.050	2.4	76	75	10	None	--	0.15	13	0.14	0.17
09875	Mine Rock	VBX	Portage	SP11-080	266	267	KCC (2020)	7.7	2.4	0.040	2.3	74	73	11	None	--	0.27	23	0.16	0.31
09883	Mine Rock	VBX	Portage	SP11-084	138	140	KCC (2020)	6.5	3.4	0.050	3.4	106	105	17	Slight	--	0.060	5.0	0.16	0.048
09884	Mine Rock	VBX	Portage	SP11-094	84	86	KCC (2020)	8.9	2.6	0.030	2.6	81	80	148	Strong	--	1.8	147	1.8	1.8
09886	Mine Rock	VBX	Portage	SP11-094	198.5	200.5	KCC (2020)	9.5	0.85	0.040	0.81	26	25	147	Strong	--	1.4	117	5.8	4.6
09889	Mine Rock	VBX	Portage	SP11-084	324.5	326.5	KCC (2020)	8.0	2.6	0.050	2.5	81	79	70	Moderate	--	0.64	53	0.89	0.67
09893	Ore-Grade Materials	VBX	Portage	SP11-091	168	170	KCC (2020)	6.3	4.2	0.040	4.1	131	129	7.9	None	--	<0.020	1.7	0.061	0.013
09894	Mine Rock	VBX	Portage	SP11-083	133.9	135.9	KCC (2020)	5.0	2.8	0.040	2.7	86	85	4.9	None	--	<0.020	1.7	0.058	0.020
09896	Mine Rock	VBX	Portage	SP11-083	214	216	KCC (2020)	4.0	4.1	0.050	4.1	129	128	6.4	None	--	0.030	2.5	0.050	0.020
R00017821	Mine Rock	VBX	Camp	BL-0282D	5.18	6.74	KCC (2020)	9.0	0.27	0.020	0.25	8.4	7.8	152	Strong	--	1.8	146	19	19
R00017822	Mine Rock	VBX	Camp	BL-0282D	24.84	26.43	KCC (2020)	9.1	0.42	<0.010	0.41	13	13	317	Strong	--	4.1	340	25	27
R00017908	Ore-Grade Materials	VBX	East Extension	BL-0319	25.3	25.66	KCC (2020)	8.5	4.5	0.030	4.5	142	141	191	Strong	--	2.7	221	1.4	1.6
R00017839	Mine Rock	VBX	Camp	BL-0282D	126.31	126.74	KCC (2020)	9.0	0.46	0.010	0.45	14	14	184	Strong	--	1.8	146	13	10
R00017826	Ore-Grade Materials	VBX	Camp	BL-0285D	25.3	25.57	KCC (2020)	8.5	4.9	0.030	4.9	153	153	225	Strong	--	2.5	210	1.5	1.4
R00017804	Mine Rock	VBX	Camp	BL-0285D	46.73	47.46	KCC (2020)	9.2	0.84	0.020	0.82	26	26	301	Strong	--	4.0	331	12	13
R00017841	Mine Rock	VBX	Camp	BL-0285D	125.43	126.46	KCC (2020)	9.3	0.20	<0.010	0.19	6.2	5.9	126	Strong	--	1.0	86	21	15
R00017883	Mine Rock	VBX	East Extension	BL-0294	8.93	10.42	KCC (2020)	9.6	0.49	0.020	0.47	15	15	137	Strong	--	1.8	152	9.3	10
R00017884	Mine Rock	VBX	East Extension	BL-0294	22.86	22.95	KCC (2020)	9.7	0.56	0.010	0.55	18	17	157	Strong	--	2.1	173	9.1	10
R00017885	Mine Rock	VBX	East Extension	BL-0294	49.38	50.81	KCC (2020)	9.0	2.5	0.030	2.4	77	76	270	Strong	--	2.3	192	3.6	2.5
R00017835	Mine Rock	VBX	East Extension	BL-0295	11.28	11.83	KCC (2020)	8.8	3.6	0.030	3.6	112	111	108	Strong	--	1.6	133	0.97	1.2
R00017808	Mine Rock	VBX	East Extension	BL-0295	74.52	74.98	KCC (2020)	9.7	0.76	0.020	0.74	24	23	237	Strong	--	3.0	247	10	11
R00017845	Mine Rock	VBX	East Extension	BL-0295	111.86	112.72	KCC (2020)	9.1	2.0	0.030	2.0	63	63	192	Strong	--	2.3	188	3.1	3.0
R00017846	Ore-Grade Materials	VBX	East Extension	BL-0295	124.05	124.66	KCC (2020)	8.9	3.6	0.030	3.6	113	112	169	Strong	--	2.3	194	1.5	1.7
R00017893	Mine Rock	VBX	Camp	BL-0302	23.16	23.35	KCC (2020)	9.2	2.1	0.030	2.1	66	65	99	Moderate	--	1.3	104	1.5	1.6
R00017894	Ore-Grade Materials	VBX	Camp	BL-0302	30.48	31.52	KCC (2020)	8.9	0.095	0.040	0.055	3.0	1.7	109	Moderate	--	1.1	88	63	51
R00017895	Mine Rock	VBX	Camp	BL-0302	43.01	43.25	KCC (2020)	9.4	0.30	0.030	0.27	9.4	8.5	144	Moderate	--	3.2	266	17	31
R00017811	Mine Rock	VBX	Camp	BL-0303	45.78	46.54	KCC (2020)	8.2	4.7	0.070	4.6	146	144	48	Moderate	--	0.65	54	0.33	0.38
R00017837	Mine Rock	VBX	Camp	BL-0304D	11.22	12.04	KCC (2020)	9.5	0.72	0.030	0.69	23	22	253	Moderate	--	2.4	201	12	9.3
R00017813	Ore-Grade Materials	VBX	Camp	BL-0304D	49.23	50.9	KCC (2020)	8.9	2.1	0.040	2.1	66	64	142	Moderate	--	1.4	118	2.2	1.8
R00017848	Mine Rock	VBX	Camp	BL-0305	24.99	25.66	KCC (2020)	9.6	0.25	0.060	0.19	7.9	6.0	170	Moderate	--	1.9	158	28	26
R00017849	Mine Rock	VBX	Camp	BL-0305	50.2	50.75	KCC (2020)	9.4	0.61	0.050	0.56	19	18	226	Strong	--	2.3</			

Table B-1. Acid Base Accounting Results

Sample ID	Classification	Final Lithology Group	Zone	Drillhole	From	To	Data Source	Paste pH	Total Sulphur ^(A)	Sulphate Sulphur ^(B)	Sulphide Sulphur ^(C)	MPA ^(D)	AP ^(E)	Sobek NP ^(F)	Fizz Rating	Total Carbon ^(G)	Total Inorganic Carbon ^(H)	CarbNP ^(I)	NPR ^(J)	CarbNPR ^(K)
Units					m	m		pH Units	%	%	%	kg CaCO ₃ /t	kg CaCO ₃ /t	kg CaCO ₃ /t	Unity	%	%	kg CaCO ₃ /t	NP/AP	CarbNP/AP
R00017910	Mine Rock	VBX	East Extension	BL-0344	20.54	21.31	KCC (2020)	9.4	0.054	0.020	0.034	1.7	1.1	227	Strong	--	2.0	166	214	156
R00017918	Ore-Grade Materials	VBX	East Extension	BL-0326	24.44	24.87	KCC (2020)	8.2	5.1	0.040	5.0	159	158	202	Strong	--	2.2	183	13	1.2
R00017919	Mine Rock	VBX	East Extension	BL-0326	47.91	48.59	KCC (2020)	9.5	0.32	0.030	0.29	10.0	9.0	241	Moderate	--	2.2	181	27	20
R00017921	Mine Rock	VBX	East Extension	BL-0327	10.12	10.82	KCC (2020)	8.9	0.87	0.030	0.84	27	26	140	Strong	--	1.4	119	5.3	4.5
R00017922	Mine Rock	VBX	East Extension	BL-0327	75.71	76.2	KCC (2020)	8.9	0.71	0.020	0.69	22	22	73	Strong	--	0.76	63	3.4	2.9
R00017923	Mine Rock	VBX	East Extension	BL-0331	15.94	16.76	KCC (2020)	8.2	6.4	0.040	6.4	200	198	156	Strong	--	2.1	173	0.79	0.87
R00017925	Ore-Grade Materials	VBX	East Extension	BL-0328	24.69	25.24	KCC (2020)	8.8	0.95	0.040	0.91	30	28	150	Strong	--	1.5	128	5.3	4.5
R00017926	Mine Rock	VBX	East Extension	BL-0328	50.99	52.06	KCC (2020)	8.8	0.65	0.030	0.62	20	19	118	Strong	--	1.1	95	6.1	4.9
R00017928	Mine Rock	VBX	East Extension	BL-0330	37.34	38.1	KCC (2020)	8.2	4.7	0.040	4.6	146	145	162	Strong	--	2.0	170	1.1	1.2
R00017940	Mine Rock	VBX	East Extension	BL-0345	33.83	34.81	KCC (2020)	9.0	0.58	0.030	0.55	18	17	141	Strong	--	1.7	140	8.1	8.1
W-013	Ore-Grade Materials	VBX	Portage	PM-DH-02	200	201	WSP (2021)	6.6	5.0	0.040	4.9	155	154	9.2	None	0.52	<0.020	1.7	0.060	0.011
W-018	Mine Rock	VBX	Portage	SM20-001	150	151	WSP (2021)	7.5	2.7	0.030	2.7	84	83	4.0	None	0.020	<0.020	1.7	0.048	0.020
W-021	Ore-Grade Materials	VBX	Portage	PM-DH-03	97	98	WSP (2021)	7.8	3.4	<0.010	3.4	106	106	3.8	None	0.080	<0.020	1.7	0.036	0.016
W-024	Mine Rock	VBX	Portage	SM20-002	100	101	WSP (2021)	9.0	0.50	<0.010	0.49	16	15	136	Strong	1.6	1.5	122	8.8	7.9
W-028	Ore-Grade Materials	VBX	Portage	SM20-002	301	302	WSP (2021)	8.3	<0.010	<0.010	<0.010	0.31	0.31	5.8	None	0.030	<0.020	1.7	1.9	5.3
W-031	Mine Rock	VBX	Portage	SM20-001	50	51	WSP (2021)	8.4	2.0	0.030	2.0	64	63	68	Strong	0.68	0.50	42	1.1	0.66
W-032	Mine Rock	VBX	Portage	SP11-088	9	10	WSP (2021)	8.5	4.2	0.030	4.1	130	129	119	Strong	1.4	0.90	75	0.92	0.58
W-037	Mine Rock	VBX	Portage	SM20-002	50	51	WSP (2021)	8.9	0.86	0.030	0.83	27	26	103	Strong	1.2	1.0	83	4.0	3.2
W-038	Mine Rock	VBX	Portage	SP11-088	249	250	WSP (2021)	8.8	2.7	0.040	2.6	84	83	136	Strong	1.6	1.1	95	1.6	1.2
W-043	Mine Rock	VBX	Portage	SM20-002	199	200	WSP (2021)	7.9	3.4	0.030	3.4	107	106	16	Moderate	0.12	0.070	5.8	0.15	0.055
W-045	Ore-Grade Materials	VBX	Portage	SM20-002	355	356	WSP (2021)	8.6	1.5	0.040	1.5	47	45	6.9	None	0.32	<0.020	1.7	0.15	0.037
W-052	Mine Rock	VBX	Camp	SP12-135	42	43.5	WSP (2021)	8.6	4.1	0.030	4.0	127	126	150	Moderate	1.9	1.3	108	1.2	0.86
W-053	Mine Rock	VBX	Portage	SP11-088	300	301	WSP (2021)	8.5	2.7	0.030	2.6	83	83	15	None	0.14	0.040	3.3	0.18	0.040
W-058	Mine Rock	VBX	Camp	SP12-132	24	26	WSP (2021)	9.4	0.23	0.030	0.20	7.2	6.3	82	Moderate	1.1	0.91	76	13	12
W-060	Mine Rock	VBX	Camp	SP12-132	54	55.4	WSP (2021)	8.3	1.0	0.030	1.0	32	31	101	Moderate	1.3	1.1	88	3.2	2.8
W-065	Mine Rock	VBX	Camp	SP12-135	21	23	WSP (2021)	8.5	2.9	0.030	2.9	91	90	103	Moderate	1.5	1.0	86	1.1	0.95
W-067	Mine Rock	VBX	Camp	SP12-135	3	5	WSP (2021)	8.6	0.41	<0.010	0.40	13	13	226	Strong	3.5	3.2	268	18	21
W-079	Mine Rock	VBX	Camp	SP12-132	12	14	WSP (2021)	8.9	0.59	0.040	0.55	18	17	108	Moderate	1.6	1.4	116	6.3	6.7
W-107	Mine Rock	VBX	Portage	SP12-123	351	353	WSP (2021)	8.3	2.3	0.030	2.2	71	70	13	None	0.030	<0.020	1.7	0.18	0.024
W-109	Mine Rock	VBX	Portage	SP12-123	393	394	WSP (2021)	7.8	3.9	0.040	3.8	120	119	7.2	None	0.060	<0.020	1.7	0.060	0.014
W-123	Mine Rock	VBX	Portage	SP12-113	201	202	WSP (2021)	8.8	2.2	0.020	2.1	67	67	185	Moderate	2.5	2.0	164	2.8	2.5
W-132	Ore-Grade Materials	VBX	Portage	SG13-201	185	186	WSP (2021)	8.6	2.9	0.030	2.9	91	90	15	Slight	0.61	0.020	1.7	0.17	0.019
W-134	Mine Rock	VBX	Portage	SG13-200	182	184	WSP (2021)	8.6	1.3	0.030	1.3	41	40	15	None	0.030	<0.020	1.7	0.36	0.041
W-139	Mine Rock	VBX	Portage	SP12-113	150	151	WSP (2021)	8.5	6.6	0.030	6.6	207	206	116	Moderate	1.6	0.89	74	0.56	0.36
W-164	Ore-Grade Materials	VBX	Portage	PM-DH-04	249	250	WSP (2021)	8.9	6.2	0.020	6.2	194	194	94	Strong	0.80	0.39	33	0.48	0.17
W-173	Mine Rock	VBX	Portage	SG13-200	200	202	WSP (2021)	7.2	4.6	0.030	4.6	145	144	17	None	0.10	<0.020	1.7	0.12	0.012
W-196	Mine Rock	VBX	Portage	SG13-204	154	156	WSP (2021)	8.9	1.7	<0.010	1.7	53	53	144	Strong	1.8	1.3	111	2.7	2.1
W-206	Mine Rock	VBX	East Extension	SP11-067	20	21	WSP (2021)	9.4	0.53	0.030	0.50	17	16	133	Moderate	1.7	1.4	118	8.5	7.6
W-208	Mine Rock	VBX	East Extension	SP11-067	33	34	WSP (2021)	9.3	0.90	<0.010	0.89	28	28	123	Strong	1.5	1.1	95	4.4	3.4
W-209	Ore-Grade Materials	VBX	Portage	PM-DH-04	311	311.8	WSP (2021)	7.2	6.5	0.030	6.4	202	201	8.9	None	0.23	<0.020	1.7	0.044	0.0083
W-215	Ore-Grade Materials	VBX	Portage	SG13-205	254	255.5	WSP (2021)	9.2	2.8	0.030	2.8	87	86	162	Strong	2.2	1.4	118	1.9	1.4
W-218	Mine Rock	VBX	Portage	SP11-055	50	51	WSP (2021)	8.2	4.3	0.030	4.3	134	133	168	Strong	0.99	0.57	48	1.3	0.36
W-225	Ore-Grade Materials	VBX	Portage	SG13-205	28	30	WSP (2021)	8.4	1.8	0.020	1.8	57	56	72	Strong	0.86	0.44	37	1.3	0.65
W-265	Mine Rock	VBX	Portage	SP12-185	147	149	WSP (2021)	9.0	1.4	0.030	1.4	44	43	178	Strong	2.6	2.1	178	4.1	4.1
W-311	Mine Rock	VBX	Portage	SM20-003	38	39	WSP (2021)	8.1	1.5	0.030	1.5	47	46	144	Strong	1.6	1.4	116	3.1	2.5
M112016	Mine Rock	VBX	East Extension	SM21-001	14	15	WSP (2021)	9.5	0.020	0.020	<0.010	0.63	0.31	145	Moderate	1.9	1.6	130	463	416
M112049	Mine Rock	VBX	East Extension	SM21-001	41	42	WSP (2021)	9.0	2.8	0.020	2.8	87	86	138	Strong	1.6	1.5	127	1.6	1.5

(A) Total sulphur measured by Leco analyzer

(B) Sulphate sulphur measured by HCl leach. A lower detection limit of 0.005% was used to analyze samples collected by MDAG (2012).

(C) Sulphide sulphur calculated as the difference between total sulphur and sulphate sulphur.

(D) MPA calculated as Total S *31.25

(E) AP calculated as Sulphide S *31.25

(F) Neutralization potential measured by the standard Sobek method

(G) Total carbon measured by Leco analyzer

(H) Total inorganic carbon measured using HCl leach and CO₂ coulometry

(I) Carbonate neutralization potential based on TIC

(J) Neutralization potential ratio, NP/AP

(K) Carbonate neutralization potential ratio, CarbNP/AP

Table B-2. Acid Base Accounting Results Statistical Summary



Statistical Parameter		Paste pH	Total Sulphur ^(A)	Sulphate Sulphur ^(B)	Sulphide Sulphur ^(C)	MPA ^(D)	Ap ^(E)	Sobek NP ^(F)	Total Carbon ^(G)	Total Inorganic Carbon ^(H)	CarbNP ^(I)	NPR ^(J)	CarbNPR ^(K)	Classification (NPR) ^(L)	Classification (CarbNPR) ^(L)
		pH Units	%	%	%	kg CaCO ₃ /t	kg CaCO ₃ /t	kg CaCO ₃ /t	%	%	kg CaCO ₃ /t	NPI/AP	CarbNPI/AP		
All Samples	Count	876	876	876	876	876	876	876	435	876	876	876	876	% NAG	
	Minimum	4.0	0.0050	0.0050	0.0040	0.16	0.13	-1.1	0.020	0.020	1.7	0.0016	0.0072	58%	56%
	10 th Percentile	7.6	0.10	0.010	0.080	3.1	2.5	8.1	0.080	0.020	1.7	0.11	0.036	% Uncertain	
	Median	8.9	1.2	0.030	1.2	37	36	119	1.4	1.2	98	3.3	2.7	% Uncertain	
	Average	8.6	1.7	0.028	1.7	53	53	112	1.4	1.2	101	2.1	1.9	11%	11%
	Standard Deviation	0.84	1.7	0.022	1.7	52	52	85	0.95	0.98	82	94	85	% PAG	
	90 th Percentile	9.5	4.3	0.040	4.2	133	131	219	2.5	2.4	203	46	40	31%	34%
	Maximum	10	10	0.30	10.0	313	312	546	4.8	5.5	459	1410	1060		
	Count	716	716	716	716	716	716	716	380	716	716	716	716	% NAG	
	Minimum	4.0	0.0050	0.0050	0.0040	0.16	0.13	-1.1	0.020	0.020	1.7	0.014	0.0074	65%	63%
All Mine Rock	10 th Percentile	7.8	0.090	0.010	0.070	2.8	2.2	10	0.12	0.040	3.3	0.18	0.077	% Uncertain	
	Median	8.9	0.89	0.030	0.87	28	27	126	1.5	1.3	109	4.6	4.0	% Uncertain	
	Average	8.8	1.4	0.026	1.3	43	42	119	1.5	1.3	107	2.8	2.5	11%	10%
	Standard Deviation	0.75	1.4	0.021	1.4	44	44	80	0.99	0.93	78	103	93	% PAG	
	90 th Percentile	9.3	2.0	0.030	2.0	62	61	170	2.0	1.9	157	14	13	24%	27%
	Maximum	10	10	0.30	10.0	313	312	546	4.8	5.5	459	1410	1060		
	Count	160	160	160	160	160	160	160	55	160	160	160	160	% NAG	
	Minimum	4.3	0.010	0.0050	0.0080	0.31	0.25	0.10	0.020	0.020	1.7	0.0016	0.0072	26%	22%
All Ore-Grade Materials	10 th Percentile	6.8	0.96	0.010	0.92	30	29	5.6	0.020	0.020	1.7	0.047	0.012	% Uncertain	
	Median	8.3	3.2	0.030	3.1	99	97	16	0.23	0.19	16	0.16	0.16	% Uncertain	
	Average	8.1	3.2	0.033	3.2	101	100	84	0.72	0.87	73	0.84	0.73	14%	16%
	Standard Deviation	0.97	1.8	0.026	1.8	56	56	101	0.88	1.1	94	118	90	% PAG	
	90 th Percentile	9.1	5.8	0.050	5.8	182	180	222	2.1	2.5	205	3.8	3.1	60%	63%
	Maximum	9.8	7.5	0.25	7.4	233	232	407	3.8	5.1	423	63	53		
	Count	160	160	160	160	160	160	160	55	160	160	160	160	% NAG	
	Minimum	4.3	0.010	0.0050	0.0080	0.31	0.25	0.10	0.020	0.020	1.7	0.0016	0.0072	26%	22%

(A) Total sulphur measured by Leco analyzer

(B) Sulphate sulphur measured by HCl leach.

(C) Sulphide sulphur calculated as the difference between total sulphur and sulphate sulphur.

(D) MPA calculated as Total S * 31.25

(E) AP calculated as Sulphide S * 31.25

(F) Neutralization potential measured by the standard Sobek method

(G) Total carbon measured by Leco analyzer

(H) Total inorganic carbon measured using HCl leach and CO₂ coulometry

(I) Carbonate neutralization potential based on TIC

(J) Neutralization potential ratio, NPI/AP

(K) Carbonate neutralization potential ratio, CarbNPI/AP

(L) Classification based on guidance in MEND (2009). NPAG = NPR>2, PAG=NPR<1, Uncertain = 1<NPR<2.

Table B-3. Acid Base Accounting Results Statistical Summary (Lithology)

Statistical Parameter		Paste pH	Total Sulphur ^(A)	Sulphate Sulphur ^(B)	Sulphide Sulphur ^(C)	MPA ^(D)	AP ^(E)	Sobek NP ^(F)	Total Carbon ^(G)	Total Inorganic Carbon ^(H)	CarbNP ^(I)	NPR ^(J)	CarbNPR ^(K)	Classification (NPR) ^(L)	Classification (CarbNPR) ^(L)
		pH Units	%	%	%	kg CaCO ₃ /t	kg CaCO ₃ /t	kg CaCO ₃ /t	%	%	kg CaCO ₃ /t	NPI/AP	CarbNPI/AP		
All Andesite, Tuff, and Metasediment Samples	Count	369	369	369	369	369	369	369	205	369	369	369	369	% NAG	
	Minimum	5.0	0.0050	0.0050	0.0040	0.16	0.13	2.6	0.020	0.020	1.7	0.014	0.0087	74%	72%
	10 th Percentile	8.2	0.061	0.010	0.050	1.9	1.6	16	0.34	0.12	9.8	0.45	0.29	% Uncertain	
	Median	8.9	0.85	0.030	0.81	26	25	146	1.7	1.6	132	5.8	5.2	% Uncertain	
	Average	8.9	1.4	0.026	1.4	44	43	142	1.7	1.5	127	3.3	3.0	11%	10%
	Standard Deviation	0.62	1.5	0.024	1.5	48	48	77	1.1	0.91	75	121	104	% PAG	
	90 th Percentile	9.5	3.8	0.040	3.7	118	117	231	2.8	2.6	214	83	77	% Uncertain	
	Maximum	10	10	0.30	10.0	313	312	407	4.8	5.1	423	1410	1060	15%	18%
														% NAG	
Andesite, Tuff, and Metasediment Mine Rock	Count	321	321	321	321	321	321	321	188	321	321	321	321	% NAG	
	Minimum	5.0	0.0050	0.0050	0.0040	0.16	0.13	2.6	0.020	0.020	1.7	0.014	0.0092	79%	78%
	10 th Percentile	8.3	0.060	0.010	0.035	1.9	1.1	21	0.62	0.27	23	0.96	0.55	% Uncertain	
	Median	9.0	0.56	0.030	0.53	18	17	147	1.7	1.6	133	8.8	8.0	% Uncertain	
	Average	8.9	1.2	0.025	1.1	36	36	144	1.7	1.6	130	4.0	3.6	10%	9%
	Standard Deviation	0.61	1.4	0.023	1.4	44	44	72	1.1	0.85	71	129	110	% PAG	
	90 th Percentile	9.5	3.0	0.040	3.0	93	92	231	2.9	2.5	211	107	84	% Uncertain	
	Maximum	10	10	0.30	10.0	313	312	398	4.8	4.6	382	1410	1060	11%	14%
														% NAG	
Andesite, Tuff, and Metasediment Ore-Grade Materials	Count	48	48	48	48	48	48	48	17	48	48	48	48	% NAG	
	Minimum	6.7	0.23	0.0050	0.23	7.2	7.0	4.4	0.020	0.020	1.7	0.045	0.0087	42%	38%
	10 th Percentile	7.9	1.2	0.010	1.2	38	38	9.3	0.092	0.020	1.7	0.076	0.018	% Uncertain	
	Median	8.6	3.0	0.030	2.9	92	91	122	1.1	1.2	103	1.3	1.1	% Uncertain	
	Average	8.6	2.9	0.030	2.9	92	91	124	1.2	1.3	112	1.4	1.2	17%	19%
	Standard Deviation	0.63	1.5	0.028	1.4	45	45	102	0.90	1.2	100	5.9	5.3	% PAG	
	90 th Percentile	9.3	4.5	0.050	4.5	141	139	230	2.4	2.8	236	4.9	4.5	% Uncertain	
	Maximum	9.8	6.2	0.19	6.1	192	191	407	3.8	5.1	423	32	29	42%	44%
														% NAG	
All Porphyry Samples	Count	127	127	127	127	127	127	127	71	127	127	127	127	% NAG	
	Minimum	5.2	0.020	0.0050	0.0080	0.63	0.25	0.90	0.020	0.020	1.7	0.016	0.0089	50%	46%
	10 th Percentile	7.3	0.11	0.0050	0.098	3.3	3.1	5.0	0.070	0.020	1.7	0.098	0.041	% Uncertain	
	Median	8.8	0.96	0.030	0.94	30	29	40	0.97	0.60	50	1.4	1.7	% Uncertain	
	Average	8.6	1.4	0.024	1.3	42	42	75	0.91	0.83	69	1.8	1.7	5%	8%
	Standard Deviation	0.92	1.4	0.017	1.3	42	42	86	0.71	0.98	81	47	42	% PAG	
	90 th Percentile	9.5	3.2	0.040	3.2	101	100	172	1.8	1.8	153	31	28	% Uncertain	
	Maximum	9.8	6.7	0.10	6.7	211	210	546	2.9	5.5	459	384	360	45%	46%
														% NAG	
Porphyry Mine Rock	Count	109	109	109	109	109	109	109	62	109	109	109	109	% NAG	
	Minimum	5.2	0.020	0.0050	0.010	0.63	0.31	0.90	0.020	0.020	1.7	0.016	0.012	55%	50%
	10 th Percentile	7.5	0.10	0.0050	0.093	3.1	2.9	5.0	0.081	0.028	2.3	0.13	0.052	% Uncertain	
	Median	8.9	0.89	0.020	0.86	28	27	70	1.1	0.72	59	2.6	2.2	% Uncertain	
	Average	8.6	1.2	0.023	1.2	37	36	77	0.94	0.84	70	2.1	1.9	4%	7%
	Standard Deviation	0.91	1.1	0.017	1.1	36	35	82	0.70	0.92	77	50	45	% PAG	
	90 th Percentile	9.5	2.8	0.040	2.7	86	85	166	1.8	1.8	151	31	29	% Uncertain	
	Maximum	9.8	6.7	0.10	6.7	211	210	546	2.7	5.5	459	384	360	41%	42%
														% NAG	
Porphyry Ore-Grade Materials	Count	18	18	18	18	18	18	18	9	18	18	18	18	% NAG	
	Minimum	6.5	0.038	0.010	0.0080	1.2	0.25	3.9	0.020	0.020	1.7	0.051	0.0089	22%	22%
	10 th Percentile	7.1	0.29	0.010	0.26	8.9	8.2	4.9	0.028	0.020	1.7	0.057	0.013	% Uncertain	
	Median	8.2	1.7	0.030	1.7	54	53	13	0.24	0.085	6.6	0.25	0.13	% Uncertain	
	Average	8.1	2.4	0.029	2.4	74	74	69	0.67	0.77	64	0.93	0.87	11%	11%
	Standard Deviation	0.85	2.0	0.013	2.0	63	63	111	0.76	1.3	107	17	14	% PAG	
	90 th Percentile	9.2	5.6	0.043	5.6	175	175	217	1.9	2.0	169	22	17	% Uncertain	
	Maximum	9.5	6.1	0.060	6.1	192	191	399	2.9	4.7	393	57	53	67%	67%
														% NAG	

(A) Total sulphur measured by Leco analyzer

(B) Sulphate sulphur measured by HCl leach.

(C) Sulphide sulphur calculated as the difference between total sulphur and sulphate sulphur.

(D) MPA calculated as Total S * 31.25

(E) AP calculated as Sulphide S * 31.25

(F) Neutralization potential measured by the standard Sobek method

(G) Total carbon measured by Leco analyzer

(H) Total inorganic carbon measured using HCl leach and CO₂ coulometry

(I) Carbonate neutralization potential based on TIC

(J) Neutralization potential ratio, NP/AP

(K) Carbonate neutralization potential ratio, CarbNP/AP

(L) Classification based on guidance in MEND (2009). NPAG = NPR>2, PAG=NPR<1, Uncertain = 1-NPR<2.

Table B-3. Acid Base Accounting Results Statistical Summary (Lithology)



Statistical Parameter		Paste pH	Total Sulphur ^(A)	Sulphate Sulphur ^(B)	Sulphide Sulphur ^(C)	MPA ^(D)	AP ^(E)	Sobek NP ^(F)	Total Carbon ^(G)	Total Inorganic Carbon ^(H)	CarbNP ^(I)	NPR ^(J)	CarbNPR ^(K)	Classification (NPR) ^(L)	Classification (CarbNPR) ^(L)
		pH Units	%	%	%	kg CaCO ₃ /t	kg CaCO ₃ /t	kg CaCO ₃ /t	%	%	kg CaCO ₃ /t	NP/AP	CarbNP/AP		
All Volcanic Breccia Samples	Count	150	150	150	150	150	150	150	55	150	150	150	150	% NAG	
	Minimum	4.0	0.010	0.0050	0.010	0.31	0.31	-1.1	0.020	0.020	1.7	0.0016	0.0083	45%	43%
	10 th Percentile	7.2	0.27	0.010	0.26	8.6	8.2	7.1	0.068	0.020	1.7	0.090	0.025		
	Median	8.7	2.0	0.030	2.0	64	63	116	1.3	1.1	95	1.9	1.5	% Uncertain	
	Average	8.5	2.2	0.032	2.1	68	67	110	1.2	1.2	98	1.6	1.5	18%	16%
	Standard Deviation	0.94	1.6	0.020	1.6	50	50	84	0.78	0.97	81	43	39	% PAG	
	90 th Percentile	9.4	4.6	0.050	4.6	144	143	225	2.3	2.4	202	18	15	37%	41%
	Maximum	9.7	6.6	0.20	6.6	207	206	380	3.5	4.1	340	463	416		
Volcanic Breccia Mine Rock	Count	111	111	111	111	111	111	111	44	111	111	111	111	% NAG	
	Minimum	4.0	0.020	0.0050	0.010	0.63	0.31	-1.1	0.020	0.020	1.7	0.046	0.012	53%	53%
	10 th Percentile	7.6	0.25	0.010	0.21	7.9	6.7	9.0	0.066	0.030	2.5	0.14	0.041		
	Median	8.9	1.5	0.030	1.5	46	45	123	1.5	1.3	104	2.7	2.3	% Uncertain	
	Average	8.6	1.8	0.031	1.8	56	56	116	1.3	1.3	105	2.1	1.9	15%	12%
	Standard Deviation	0.92	1.5	0.021	1.4	45	45	79	0.84	0.94	78	50	44	% PAG	
	90 th Percentile	9.5	4.0	0.050	3.9	124	123	226	2.5	2.4	202	19	20	32%	35%
	Maximum	9.7	6.6	0.20	6.6	207	206	317	3.5	4.1	340	463	416		
Volcanic Breccia Ore-Grade Materials	Count	39	39	39	39	39	39	39	11	39	39	39	39	% NAG	
	Minimum	5.4	0.010	0.0050	0.010	0.31	0.31	0.10	0.030	0.020	1.7	0.0016	0.0083	23%	15%
	10 th Percentile	6.9	1.4	0.010	1.4	44	42	6.4	0.080	0.020	1.7	0.057	0.015		
	Median	8.5	3.0	0.030	3.0	94	94	72	0.52	0.39	33	0.77	0.35	% Uncertain	
	Average	8.2	3.2	0.033	3.2	100	99	93	0.69	0.94	78	0.95	0.79	26%	28%
	Standard Deviation	0.91	1.6	0.014	1.6	50	49	96	0.46	1.0	86	10	8.2	% PAG	
	90 th Percentile	9.0	5.1	0.050	5.1	160	158	206	1.6	2.4	197	3.0	2.3	51%	56%
	Maximum	9.6	6.5	0.070	6.4	202	201	380	2.2	3.9	322	63	51		
All Trachyte Samples	Count	222	222	222	222	222	222	222	103	222	222	222	222	% NAG	
	Minimum	4.3	0.010	0.0050	0.0050	0.31	0.16	2.5	0.020	0.020	1.7	0.014	0.0072	43%	41%
	10 th Percentile	7.2	0.18	0.010	0.16	5.7	5.0	6.9	0.032	0.020	1.7	0.067	0.019		
	Median	8.7	1.6	0.030	1.5	49	48	78	1.0	0.69	57	1.6	1.2	% Uncertain	
	Average	8.4	2.2	0.030	2.1	67	66	87	1.1	0.91	76	1.3	1.1	12%	10%
	Standard Deviation	0.94	1.9	0.024	1.9	59	59	79	0.83	0.91	76	86	91	% PAG	
	90 th Percentile	9.3	5.1	0.050	5.0	159	158	189	2.3	2.2	181	28	20	45%	48%
	Maximum	9.8	7.5	0.25	7.4	233	232	368	3.5	4.3	354	784	867		
Trachyte Mine Rock	Count	168	168	168	168	168	168	168	85	168	168	168	168	% NAG	
	Minimum	6.1	0.010	0.0050	0.0050	0.31	0.16	2.5	0.020	0.020	1.7	0.037	0.0074	52%	51%
	10 th Percentile	7.7	0.15	0.010	0.12	4.8	3.7	8.7	0.092	0.029	2.4	0.12	0.049		
	Median	8.9	1.3	0.030	1.2	40	39	108	1.2	0.97	81	2.8	2.1	% Uncertain	
	Average	8.7	1.6	0.027	1.6	51	50	100	1.3	1.1	88	2.0	1.8	14%	12%
	Standard Deviation	0.71	1.5	0.018	1.5	47	47	74	0.89	0.87	73	98	103	% PAG	
	90 th Percentile	9.4	3.8	0.050	3.8	119	118	191	2.4	2.2	181	40	34	34%	38%
	Maximum	9.8	7.2	0.10	7.2	226	225	273	3.5	3.3	271	784	867		
Trachyte Ore-Grade Materials	Count	54	54	54	54	54	54	54	18	54	54	54	54	% NAG	
	Minimum	4.3	0.36	0.0050	0.33	11	10	3.3	0.020	0.020	1.7	0.014	0.0072	15%	13%
	10 th Percentile	6.3	1.1	0.010	1.1	35	34	4.8	0.020	0.020	1.7	0.034	0.010		
	Median	7.9	3.8	0.040	3.7	118	117	11	0.070	0.030	2.5	0.098	0.021	% Uncertain	
	Average	7.6	3.8	0.039	3.8	119	118	48	0.27	0.47	39	0.40	0.33	6%	6%
	Standard Deviation	1.1	2.0	0.035	2.0	62	62	82	0.32	0.91	76	1.1	0.92	% PAG	
	90 th Percentile	8.9	6.5	0.050	6.5	204	203	161	0.64	1.6	132	2.6	2.1	80%	81%
	Maximum	9.3	7.5	0.25	7.4	233	232	368	2.0	4.3	354	4.1	3.5		

(A) Total sulphur measured by Leco analyzer

(B) Sulphate sulphur measured by HCl leach.

(C) Sulphide sulphur calculated as the difference between total sulphur and sulphate sulphur.

(D) MPA calculated as Total S *31.25

(E) AP calculated as Sulphide S * 31.25

(F) Neutralization potential measured by the standard Sobek method

(G) Total carbon measured by Leco analyzer

(H) Total inorganic carbon measured using HCl leach and CO₂ coulometry

(I) Carbonate neutralization potential based on TIC

(J) Neutralization potential ratio, NP/AP

(K) Carbonate neutralization potential ratio, CarbNP/AP

(L) Classification based on guidance in MEND (2009). NPAG = NPR>2, PAG=NPR<1, Uncertain = 1<NPR<2.

Table B-3. Acid Base Accounting Results Statistical Summary (Lithology)



Statistical Parameter		Paste pH	Total Sulphur ^(A)	Sulphate Sulphur ^(B)	Sulphide Sulphur ^(C)	MPA ^(D)	AP ^(E)	Sobek Np ^(F)	Total Carbon ^(G)	Total Inorganic Carbon ^(H)	CarbNp ^(I)	NPR ^(J)	CarbNPR ^(K)	Classification (NPR) ^(L)	Classification (CarbNPR) ^(L)
		pH Units	%	%	%	kg CaCO ₃ /t	kg CaCO ₃ /t	kg CaCO ₃ /t	%	%	kg CaCO ₃ /t	NPI/AP	CarbNPI/AP		
All Lamprophyre Samples	Count	8	8	8	8	8	8	8	1	8	8	8	8	% NAG	
	Minimum	7.4	0.040	0.025	0.010	1.3	0.31	6.1	0.050	0.020	1.7	0.082	0.016	50%	50%
	10 th Percentile	7.4	0.086	0.029	0.056	2.7	1.8	7.8	0.050	0.020	1.7	0.14	0.051		
	Median	8.1	0.62	0.030	0.58	19	18	12	0.050	0.095	7.9	0.65	0.44	% Uncertain	
	Average	8.4	0.97	0.037	0.93	30	29	96	0.050	1.1	91	3.3	3.1	0%	0%
	Standard Deviation	0.97	1.1	0.011	1.1	35	35	159	0.018	1.7	144	57	45	% PAG	
	90 th Percentile	9.6	2.1	0.050	2.1	66	65	331	0.050	3.8	319	73	58	50%	50%
	Maximum	9.6	3.3	0.050	3.3	104	103	396	0.050	4.0	329	167	132		
Lamprophyre Mine Rock	Count	7	7	7	7	7	7	7	1	7	7	7	7	% NAG	
	Minimum	7.4	0.040	0.025	0.010	1.3	0.31	6.1	0.050	0.020	1.7	0.16	0.066	57%	57%
	10 th Percentile	7.4	0.080	0.028	0.050	2.5	1.6	8.4	0.050	0.020	1.7	0.23	0.069		
	Median	8.3	0.43	0.030	0.41	13	13	13	0.050	0.16	13	1.0	1.1	% Uncertain	
	Average	8.5	0.63	0.038	0.59	20	19	108	0.050	1.2	103	5.8	5.6	0%	0%
	Standard Deviation	1.0	0.60	0.011	0.60	19	19	167	0.019	1.8	151	61	48	% PAG	
	90 th Percentile	9.6	1.4	0.050	1.3	43	42	340	0.050	3.8	320	86	69	43%	43%
	Maximum	9.6	1.6	0.050	1.5	50	48	396	0.050	4.0	329	167	132		
Lamprophyre Ore-Grade Materials	Count	1	1	1	1	1	1	1	0	1	1	1	1	%NAG	%PAG
	Maximum	7.9	3.3	0.030	3.3	104	103	8.5	--	0.020	1.7	0.082	0.016	0%	100%

(A) Total sulphur measured by Leco analyzer

(B) Sulphate sulphur measured by HCl leach.

(C) Sulphide sulphur calculated as the difference between total sulphur and sulphate sulphur.

(D) MPA calculated as Total S * 31.25

(E) AP calculated as Sulphide S * 31.25

(F) Neutralization potential measured by the standard Sobek method

(G) Total carbon measured by Leco analyzer

(H) Total inorganic carbon measured using HCl leach and CO₂ coulometry

(I) Carbonate neutralization potential based on TIC

(J) Neutralization potential ratio, NP/AP

(K) Carbonate neutralization potential ratio, CarbNPI/AP

(L) Classification based on guidance in MEND (2009). NPAG = NPR>2, PAG=NPR<1, Uncertain = 1<NPR<2.

Table B-4. Acid Base Accounting Results Statistical Summary (Zone)



Statistical Parameter		Paste pH	Total Sulphur ^(A)	Sulphate Sulphur ^(B)	Sulphide Sulphur ^(C)	MPA ^(D)	AP ^(E)	Sobek NP ^(F)	Total Carbon ^(G)	Total Inorganic Carbon ^(H)	CarbNP ^(I)	NPR ^(J)	CarbNPR ^(K)	Classification (NPR) ^(L)	Classification (CarbNPR) ^(L)
		pH Units	%	%	%	kg CaCO ₃ /t	kg CaCO ₃ /t	kg CaCO ₃ /t	%	%	kg CaCO ₃ /t	NP/AP	CarbNP/AP		
All Portage Samples	Count	609	609	609	609	609	609	609	311	609	609	609	609	% NAG	
	Minimum	4.0	0.010	0.0050	0.0040	0.31	0.13	-1.1	0.020	0.020	1.7	0.0016	0.0072	46%	43%
	10 th Percentile	7.2	0.11	0.010	0.089	3.3	2.8	6.6	0.050	0.020	1.7	0.080	0.023	% Uncertain	
	Median	8.7	1.5	0.030	1.5	47	45	82	1.1	0.75	63	1.8	1.4	% Uncertain	
	Average	8.5	1.9	0.029	1.9	61	60	87	1.1	0.90	75	1.5	1.3	11%	11%
	Standard Deviation	0.91	1.7	0.024	1.7	54	54	78	0.86	0.88	73	86	72	% PAG	
	90 th Percentile	9.4	4.5	0.050	4.5	141	140	191	2.4	2.1	179	35	28	43%	46%
	Maximum	10	10	0.30	10.0	313	312	396	4.4	4.1	339	1410	1060		
	Count	479	479	479	479	479	479	479	263	479	479	479	479	% NAG	
Portage Mine Rock	Minimum	4.0	0.010	0.0050	0.0040	0.31	0.13	-1.1	0.020	0.020	1.7	0.014	0.0074	54%	52%
	10 th Percentile	7.6	0.088	0.010	0.069	2.8	2.2	7.3	0.080	0.020	1.7	0.13	0.047	% Uncertain	
	Median	8.8	1.2	0.030	1.1	37	36	100	1.2	0.95	79	2.8	2.2	% Uncertain	
	Average	8.6	1.6	0.027	1.5	49	48	96	1.2	1.00	83	2.0	1.7	11%	10%
	Standard Deviation	0.83	1.5	0.023	1.5	47	47	76	0.90	0.86	72	96	80	% PAG	
	90 th Percentile	9.5	3.6	0.050	3.5	111	110	201	2.4	2.2	185	57	52	35%	38%
	Maximum	10	10	0.30	10.0	313	312	396	4.4	4.1	339	1410	1060		
	Count	130	130	130	130	130	130	130	48	130	130	130	130	% NAG	
	Minimum	4.3	0.010	0.0050	0.0080	0.31	0.25	0.10	0.020	0.020	1.7	0.0016	0.0072	15%	11%
Portage Ore-Grade Materials	10 th Percentile	6.7	1.1	0.010	1.1	33	33	4.9	0.020	0.020	1.7	0.044	0.011	% Uncertain	
	Median	8.1	3.3	0.030	3.3	103	102	13	0.18	0.065	5.4	0.13	0.053	% Uncertain	
	Average	7.9	3.4	0.035	3.4	107	106	55	0.53	0.54	45	0.52	0.43	12%	13%
	Standard Deviation	0.98	1.8	0.029	1.8	55	55	77	0.57	0.83	69	6.6	5.3	% PAG	
	90 th Percentile	9.0	6.1	0.050	6.0	189	188	208	1.1	2.1	176	2.8	2.4	73%	76%
	Maximum	9.5	7.5	0.25	7.4	233	232	313	3.8	3.2	263	57	53		
	Count	137	137	137	137	137	137	137	63	137	137	137	137	% NAG	
	Minimum	7.9	0.0050	0.0050	0.010	0.16	0.31	6.4	0.65	0.14	12	0.33	0.28	83%	82%
	10 th Percentile	8.5	0.100	0.010	0.079	3.1	2.5	97	1.0	0.97	81	1.5	1.3	% Uncertain	
All Camp Samples	Median	9.0	0.52	0.030	0.50	16	15	162	1.9	1.7	145	10	9.4	% Uncertain	
	Average	9.0	1.2	0.027	1.1	37	36	172	1.9	1.8	154	4.8	4.3	13%	12%
	Standard Deviation	0.36	1.4	0.018	1.4	42	42	72	1.0	0.83	69	83	76	% PAG	
	90 th Percentile	9.5	3.6	0.040	3.5	111	110	244	2.7	2.8	236	64	53	4%	6%
	Maximum	9.9	6.0	0.18	6.0	187	186	546	3.7	5.5	459	541	509		
	Count	119	119	119	119	119	119	119	60	119	119	119	119	% NAG	
	Minimum	7.9	0.0050	0.0050	0.010	0.16	0.31	6.4	0.65	0.14	12	0.33	0.28	84%	83%
	10 th Percentile	8.6	0.099	0.010	0.078	3.1	2.4	88	1.0	0.89	75	1.5	1.5	% Uncertain	
	Median	9.0	0.47	0.030	0.44	15	14	159	1.9	1.7	144	12	10	% Uncertain	
Camp Mine Rock	Average	9.0	0.97	0.027	0.94	30	29	165	1.9	1.8	150	5.6	5.1	13%	11%
	Standard Deviation	0.37	1.2	0.019	1.2	36	36	69	1.1	0.79	65	88	81	% PAG	
	90 th Percentile	9.5	3.6	0.040	3.6	112	111	233	2.9	2.8	231	56	42	3%	6%
	Maximum	9.9	5.5	0.18	5.4	170	169	546	3.7	5.5	459	541	509		

(A) Total sulphur measured by Leco analyzer

(B) Sulphate sulphur measured by HCl leach.

(C) Sulphide sulphur calculated as the difference between total sulphur and sulphate sulphur.

(D) MPA calculated as Total S * 31.25

(E) AP calculated as Sulphide S * 31.25

(F) Neutralization potential measured by the standard Sobek method

(G) Total carbon measured by Leco analyzer

(H) Total inorganic carbon measured using HCl leach and CO₂ coulometry

(I) Carbonate neutralization potential based on TIC

(J) Neutralization potential ratio, NP/AP

(K) Carbonate neutralization potential ratio, CarbNP/AP

(L) Classification based on guidelines in MEND (2009). See text for additional details.

(K) Carbonate neutralization potential ratio, CarbNP/AP

(L) Classification based on guidance in MEND (2009). NPAG = NPR>2, PAG=NPR<1, Uncertain = 1<NPR<2.

Table B-4. Acid Base Accounting Results Statistical Summary (Zone)



Statistical Parameter		Paste pH	Total Sulphur ^(A)	Sulphate Sulphur ^(B)	Sulphide Sulphur ^(C)	MPA ^(D)	AP ^(E)	Sobek NP ^(F)	Total Carbon ^(G)	Total Inorganic Carbon ^(H)	CarbNP ^(I)	NPR ^(J)	CarbNPR ^(K)	Classification (NPR) ^(L)	Classification (CarbNPR) ^(L)
		pH Units	%	%	%	kg CaCO ₃ /t	kg CaCO ₃ /t	kg CaCO ₃ /t	%	%	kg CaCO ₃ /t	NP/AP	CarbNP/AP		
Camp Ore-Grade Materials	Count	18	18	18	18	18	18	18	3	18	18	18	18	% NAG	
	Minimum	8.3	0.095	0.010	0.055	3.0	1.7	109	1.7	0.92	77	0.88	0.41	78%	72%
	10 th Percentile	8.4	0.34	0.017	0.32	11	10.0	121	1.8	1.1	93	1.4	1.2	% Uncertain	
	Median	8.9	2.2	0.030	2.1	68	66	195	2.0	1.9	158	2.9	2.4	% Uncertain	
	Average	8.8	2.5	0.031	2.5	79	78	212	2.0	2.2	184	2.7	2.4	17%	22%
	Standard Deviation	0.32	1.8	0.011	1.8	56	56	80	0.75	1.0	84	15	12	% PAG	
	90 th Percentile	9.5	5.0	0.040	5.0	156	155	226	2.6	2.9	240	6.9	6.0	6%	6%
	Maximum	9.5	6.0	0.050	6.0	187	186	380	2.2	4.3	354	63	51		
All East Extension Samples	Count	130	130	130	130	130	130	130	61	130	130	130	130	% NAG	
	Minimum	8.1	0.010	0.0050	0.010	0.31	0.31	54	0.76	0.56	47	0.76	0.78	87%	87%
	10 th Percentile	8.6	0.090	0.010	0.070	2.8	2.2	96	1.1	0.97	82	1.6	1.6	% Uncertain	
	Median	9.2	0.71	0.020	0.69	22	22	149	1.8	1.8	152	6.9	7.0	% Uncertain	
	Average	9.2	1.2	0.021	1.1	36	36	167	2.0	2.0	163	4.7	4.5	9%	10%
	Standard Deviation	0.41	1.3	0.011	1.3	40	40	71	1.2	0.87	72	132	133	% PAG	
	90 th Percentile	9.7	3.0	0.040	2.9	93	92	242	2.9	3.0	248	68	67	4%	3%
	Maximum	9.9	6.4	0.040	6.4	200	198	407	4.8	5.1	423	784	867		
East Extension Mine Rock	Count	118	118	118	118	118	118	118	57	118	118	118	118	% NAG	
	Minimum	8.1	0.010	0.0050	0.010	0.31	0.31	54	0.76	0.56	47	0.76	0.78	89%	89%
	10 th Percentile	8.7	0.081	0.010	0.064	2.5	2.0	95	1.1	0.96	80	1.9	1.9	% Uncertain	
	Median	9.3	0.63	0.020	0.62	20	19	145	1.8	1.8	151	7.5	7.8	% Uncertain	
	Average	9.2	1.0	0.021	1.0	32	32	163	2.0	1.9	158	5.1	5.0	7%	8%
	Standard Deviation	0.39	1.2	0.011	1.2	36	36	67	1.2	0.81	68	138	139	% PAG	
	90 th Percentile	9.6	2.5	0.040	2.5	80	79	241	3.0	2.9	239	70	68	4%	3%
	Maximum	9.9	6.4	0.040	6.4	200	198	398	4.8	4.6	382	784	867		
East Extension Ore-Grade Materials	Count	12	12	12	12	12	12	12	4	12	12	12	12	% NAG	
	Minimum	8.2	0.23	0.0050	0.23	7.2	7.0	116	1.6	1.4	120	1.1	1.1	67%	67%
	10 th Percentile	8.4	0.97	0.0055	0.93	30	29	136	1.7	1.5	127	1.3	1.2	% Uncertain	
	Median	8.8	2.1	0.020	2.1	65	64	180	1.9	2.3	189	2.8	2.9	% Uncertain	
	Average	8.9	2.4	0.022	2.4	76	76	208	2.0	2.5	206	2.7	2.7	33%	33%
	Standard Deviation	0.52	1.6	0.015	1.6	49	49	96	1.00	1.2	101	8.8	7.9	% PAG	
	90 th Percentile	9.5	4.7	0.050	4.7	147	146	212	2.4	2.5	205	12	10	0%	0%
	Maximum	9.8	5.1	0.040	5.0	159	158	407	2.5	5.1	423	32	29		

(A) Total sulphur measured by Leco analyzer

(B) Sulphate sulphur measured by HCl leach.

(C) Sulphide sulphur calculated as the difference between total sulphur and sulphate sulphur.

(D) MPA calculated as Total S *31.25

(E) AP calculated as Sulphide S * 31.25

(F) Neutralization potential measured by the standard Sobek method

(G) Total carbon measured by Leco analyzer

(H) Total inorganic carbon measured using HCl leach and CO₂ coulometry

(I) Carbonate neutralization potential based on TIC

(J) Neutralization potential ratio, NP/AP

(K) Carbonate neutralization potential ratio, CarbNP/AP

(L) Classification based on guidelines in MEND (2009). See text for additional details.

(K) Carbonate neutralization potential ratio, CarbNP/AP

(L) Classification based on guidance in MEND (2009). NPAG = NPR>2, PAG=NPR<1, Uncertain = 1<NPR<2.

Table B-5. NAG pH Results



Sample ID	Classification	Final Lithology Group	Zone	Data Source	Pulp Sample Weight	Vol. of 15% H ₂ O ₂	NAG pH	NaOH to pH 4.5	NaOH to pH 7.0	NaOH Concentration	NAG Acidity to pH 4.5	NAG Acidity to pH 7.0
					g	mL	pH Units	mL	mL	N	Kg H ₂ SO ₄ /tonn	Kg H ₂ SO ₄ /tonn
009555	Mine Rock	And tuf metaseds	PORT	KCC (2020)	2.5	250	8.32	0	0	0.10	0	0
009573	Ore-Grade Materials	TRA	PORT	KCC (2020)	2.5	250	2.18	31	39	0.10	60	77
009587	Ore-Grade Materials	And tuf metaseds	PORT	KCC (2020)	2.5	250	2.47	13	17	0.10	25	34
009594	Ore-Grade Materials	VBX	PORT	KCC (2020)	2.5	250	2.15	31	38	0.10	60	75
009608	Mine Rock	POR	PORT	KCC (2020)	2.5	250	3.15	3.2	7.5	0.10	6.3	15
009626	Ore-Grade Materials	And tuf metaseds	PORT	KCC (2020)	2.5	250	8.50	0	0	0.10	0	0
009668	Mine Rock	TRA	PORT	KCC (2020)	2.5	250	8.20	0	0	0.10	0	0
009688	Ore-Grade Materials	And tuf metaseds	Camp	KCC (2020)	2.5	250	8.44	0	0	0.10	0	0
A00356169	Mine Rock	VBX	EAST-EXT	KCC (2020)	2.5	250	8.39	0	0	0.10	0	0
009702	Mine Rock	And tuf metaseds	Camp	KCC (2020)	2.5	250	8.54	0	0	0.10	0	0
W-003	Ore-Grade Materials	And tuf metaseds	PORT	WSP (2021)	2.5	250	8.18	0	0	0.10	0	0
W-006	Ore-Grade Materials	POR	PORT	WSP (2021)	2.5	250	8.15	0	0	0.10	0	0
W-009	Ore-Grade Materials	POR	PORT	WSP (2021)	2.5	250	2.72	7.2	18	0.10	14	35
W-014	Ore-Grade Materials	TRA	PORT	WSP (2021)	2.5	250	2.17	33	39	0.10	65	76
W-022	Ore-Grade Materials	TRA	PORT	WSP (2021)	2.5	250	2.50	12	16	0.10	24	30
W-028	Ore-Grade Materials	VBX	PORT	WSP (2021)	2.5	250	7.30	0	0	0.10	0	0
W-030	Ore-Grade Materials	TRA	PORT	WSP (2021)	2.5	250	2.34	23	26	0.10	45	52
W-032	Mine Rock	VBX	PORT	WSP (2021)	2.5	250	8.01	0	0	0.10	0	0
W-033	Mine Rock	Int-M	PORT	WSP (2021)	2.5	250	8.39	0	0	0.10	0	0
W-041	Mine Rock	TRA	PORT	WSP (2021)	2.5	250	8.52	0	0	0.10	0	0
W-042	Mine Rock	And tuf metaseds	Camp	WSP (2021)	2.5	250	8.46	0	0	0.10	0	0
W-046	Mine Rock	And tuf metaseds	PORT	WSP (2021)	2.5	250	3.87	0.50	1.8	0.10	1.0	3.5
W-050	Mine Rock	TRA	Camp	WSP (2021)	2.5	250	8.54	0	0	0.10	0	0
W-052	Mine Rock	VBX	Camp	WSP (2021)	2.5	250	7.39	0	0	0.10	0	0
W-053	Mine Rock	VBX	PORT	WSP (2021)	2.5	250	2.36	21	25	0.10	41	49
W-054	Mine Rock	TRA	Camp	WSP (2021)	2.5	250	7.95	0	0	0.10	0	0
W-055	Ore-Grade Materials	And tuf metaseds	PORT	WSP (2021)	2.5	250	2.45	16	18	0.10	30	36
W-059	Mine Rock	And tuf metaseds	Camp	WSP (2021)	2.5	250	8.39	0	0	0.10	0	0
W-060	Mine Rock	VBX	Camp	WSP (2021)	2.5	250	8.15	0	0	0.10	0	0
W-063	Mine Rock	And tuf metaseds	Camp	WSP (2021)	2.5	250	8.19	0	0	0.10	0	0
W-065	Mine Rock	VBX	Camp	WSP (2021)	2.5	250	7.82	0	0	0.10	0	0
W-067	Mine Rock	VBX	Camp	WSP (2021)	2.5	250	8.44	0	0	0.10	0	0
W-070	Mine Rock	And tuf metaseds	PORT	WSP (2021)	2.5	250	8.23	0	0	0.10	0	0
W-072	Mine Rock	TRA	PORT	WSP (2021)	2.5	250	2.87	7.2	11	0.10	14	21
W-073	Mine Rock	TRA	Camp	WSP (2021)	2.5	250	8.21	0	0	0.10	0	0
W-077	Mine Rock	And tuf metaseds	Camp	WSP (2021)	2.5	250	8.55	0	0	0.10	0	0
W-079	Mine Rock	VBX	Camp	WSP (2021)	2.5	250	8.14	0	0	0.10	0	0
W-081	Mine Rock	And tuf metaseds	Camp	WSP (2021)	2.5	250	8.24	0	0	0.10	0	0
W-082	Mine Rock	And tuf metaseds	PORT	WSP (2021)	2.5	250	8.33	0	0	0.10	0	0
W-086	Mine Rock	And tuf metaseds	PORT	WSP (2021)	2.5	250	8.03	0	0	0.10	0	0
W-088	Mine Rock	TRA	PORT	WSP (2021)	2.5	250	2.40	20	25	0.10	38	48
W-091	Mine Rock	And tuf metaseds	PORT	WSP (2021)	2.5	250	8.31	0	0	0.10	0	0
W-102	Mine Rock	POR	PORT	WSP (2021)	2.5	250	8.81	0	0	0.10	0	0
W-105	Mine Rock	TRA	PORT	WSP (2021)	2.5	250	2.81	9.7	14	0.10	19	27
W-126	Mine Rock	And tuf metaseds	PORT	WSP (2021)	2.5	250	8.61	0	0	0.10	0	0
W-137	Mine Rock	And tuf metaseds	PORT	WSP (2021)	2.5	250	7.84	0	0	0.10	0	0
W-139	Mine Rock	VBX	PORT	WSP (2021)	2.5	250	2.71	12	18	0.10	24	35
W-150	Mine Rock	And tuf metaseds	PORT	WSP (2021)	2.5	250	2.73	10	15	0.10	20	29
W-151	Mine Rock	And tuf metaseds	PORT	WSP (2021)	2.5	250	8.02	0	0	0.10	0	0
W-173	Mine Rock	VBX	PORT	WSP (2021)	2.5	250	2.46	17	23	0.10	34	46
W-180	Mine Rock	POR	PORT	WSP (2021)	2.5	250	3.03	2.8	3.9	0.10	5.5	7.6
W-196	Mine Rock	VBX	PORT	WSP (2021)	2.5	250	8.50	0	0	0.10	0	0
W-200	Mine Rock	And tuf metaseds	PORT	WSP (2021)	2.5	250	8.75	0	0	0.10	0	0
W-202	Mine Rock	And tuf metaseds	PORT	WSP (2021)	2.5	250	9.45	0	0	0.10	0	0
W-206	Mine Rock	VBX	EAST-EXT	WSP (2021)	2.5	250	8.30	0	0	0.10	0	0
W-207	Mine Rock	And tuf metaseds	PORT	WSP (2021)	2.5	250	8.58	0	0	0.10	0	0
W-208	Mine Rock	VBX	EAST-EXT	WSP (2021)	2.5	250	8.13	0	0	0.10	0	0
W-211	Mine Rock	And tuf metaseds	PORT	WSP (2021)	2.5	250	8.36	0	0	0.10	0	0
W-215	Ore-Grade Materials	VBX	PORT	WSP (2021)	2.5	250	8.62	0	0	0.10	0	0
W-217	Mine Rock	TRA	PORT	WSP (2021)	2.5	250	8.42	0	0	0.10	0	0
W-221	Mine Rock	POR	PORT	WSP (2021)	2.5	250	8.07	0	0	0.10	0	0
W-222	Mine Rock	And tuf metaseds	Camp	WSP (2021)	2.5	250	9.59	0	0	0.10	0	0
W-234	Mine Rock	And tuf metaseds	PORT	WSP (2021)	2.5	250	8.36	0	0	0.10	0	0
W-241	Mine Rock	TRA	EAST-EXT	WSP (2021)	2.5	250	8.68	0	0	0.10	0	0
W-245	Mine Rock	TRA	EAST-EXT	WSP (2021)	2.5	250	9.09	0	0	0.10	0	0
W-253	Ore-Grade Materials	And tuf metaseds	Camp	WSP (2021)	2.5	250	7.95	0	0	0.10	0	0
W-261	Mine Rock	And tuf metaseds	PORT	WSP (2021)	2.5	250	8.71	0	0	0.10	0	0
W-263	Mine Rock	And tuf metaseds	PORT	WSP (2021)	2.5	250	8.24	0	0	0.10	0	0
W-266	Ore-Grade Materials	TRA	PORT	WSP (2021)	2.5	250	2.53	16	21	0.10	31	41
W-267	Mine Rock	TRA	PORT	WSP (2021)	2.5	250	8.44	0	0	0.10	0	0
W-272	Mine Rock	TRA	PORT	WSP (2021)	2.5	250	8.11	0	0	0.10	0	0
W-278	Mine Rock	TRA	PORT	WSP (2021)	2.5	250	8.02	0	0	0.10	0	0
W-299	Mine Rock	And tuf metaseds	PORT	WSP (2021)	2.5	250	8.03	0	0	0.10	0	0
W-301	Mine Rock	And tuf metaseds	PORT	WSP (2021)	2.5	250	8.36	0	0	0.10	0	0
W-306	Mine Rock	And tuf metaseds	Camp	WSP (2021)	2.5	250	8.59	0	0	0.10	0	0
W-312	Mine Rock	And tuf metaseds	Camp	WSP (2021)	2.5	250	8.29	0	0	0.10	0	0
M112010	Mine Rock	And tuf metaseds	EAST-EXT	WSP (2021)	2.5	250	7.99	0	0	0.10	0	0
M112065	Mine Rock	And tuf metaseds	EAST-EXT	WSP (2021)	2.5	250	7.86	0	0	0.10	0	0
M112068	Mine Rock	And tuf metaseds	EAST-EXT	WSP (2021)	2.5	250	8.34	0	0	0.10	0	0
M112086	Mine Rock	TRA	EAST-EXT	WSP (2021)	2.5	250	7.95	0	0	0.10	0	0
M112089	Mine Rock	And tuf metaseds	EAST-EXT	WSP (2021)	2.5	250	8.27	0	0	0.10	0	0
M112105	Mine Rock	And tuf metaseds	EAST-EXT	WSP (2021)	2.5	250	8.12	0	0	0.10	0	0
M112119	Mine Rock	TRA	EAST-EXT	WSP (2021)	2.5	250	8.04	0	0	0.10	0	0
M112133	Mine Rock	TRA	EAST-EXT	WSP (2021)	2.5	250	8.09	0	0	0.10	0	0
M112163	Mine Rock	TRA	EAST-EXT	WSP (2021)	2.5	250	8.14	0	0	0.10	0	0

Table B-6. Elemental Content Results

Sample ID	Classification	Digest Method ^(A)	Final Lithology Group	Zone	Drillhole	From	To	Data Source	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Cr	Ce	Cu	Fe	Ga	Ge	
									mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
						m	m		0.75	--	18	4E-06	mg/kg	4250	30	0.085	--	1.5	--	250	1020	600	--	190	15	
009501	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-133	416	418	KCC (2020)	2.5	9100	39	0.24	<10	71	0.44	0.40	2000	2.8	55	15	35	5.3	43	24800	2.6	0.070
009502	3:1 Aqua Regia	LAM	Portage	SP12-133	365	367	KCC (2020)	1.9	9200	71	0.30	<10	32	0.55	0.94	1600	0.98	206	24	35	6.7	90	37400	3.4	0.080	
009503	Mine Rock	3:1 Aqua Regia	POR	Portage	SP12-133	376	378	KCC (2020)	0.93	33700	56	0.61	<10	79	1.16	0.10	4300	0.12	58	45	53	45	75	64000	11	0.14
009504	Mine Rock	3:1 Aqua Regia	POR	Portage	SP12-133	257.5	259.5	KCC (2020)	0.15	4000	72	0.027	<10	25	0.44	0.30	3200	0.11	45	21	36	2.1	46	35000	1.2	<0.050
009505	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP12-133	251.5	253.5	KCC (2020)	0.16	2200	34	0.019	<10	130	0.36	0.58	2700	0.32	60	15	37	0.35	45	30000	0.91	0.060
009506	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP12-133	103	105	KCC (2020)	0.16	14400	25	0.31	<10	30	0.16	0.060	51900	0.11	21	41	86	17	117	72700	4.4	0.060
009507	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP12-133	39	41	KCC (2020)	0.070	15600	202	0.0070	<10	44	0.31	0.040	42300	0.030	16	32	68	22	58	55000	3.9	0.050
009508	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Camp	SP12-132	140	142	KCC (2020)	0.090	9200	62	0.010	<10	38	0.99	0.010	36100	0.060	41	30	32	16	23	84500	5.9	0.12
009509	Mine Rock	3:1 Aqua Regia	VBX	Camp	SP12-132	27	29	KCC (2020)	0.090	23800	76	0.014	<10	140	0.75	0.11	11700	0.19	43	41	101	38	58	83100	8.2	0.16
009510	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Camp	SP12-132	4.5	6.5	KCC (2020)	0.32	11500	162	0.14	<10	108	0.28	0.14	39900	0.17	32	46	56	23	76	66300	2.9	0.070
009511	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-131	433	435	KCC (2020)	0.8	12600	25	0.48	<10	34	1.1	0.40	2100	0.16	347	27	75	9.2	95	51400	5.2	0.30
009512	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-131	349	351	KCC (2020)	4.4	6900	24	0.56	<10	29	0.38	0.74	1900	0.26	93	16	47	3.9	40	26000	2.1	0.080
009513	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-131	280	282	KCC (2020)	0.58	7500	29	0.052	<10	105	0.79	1.5	10100	0.32	207	9.6	33	10	23	18800	3.1	0.15
009514	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP12-131	207	209	KCC (2020)	2.2	6900	61	0.11	<10	78	0.54	0.36	48900	0.34	45	16	31	4.6	66	27600	1.4	<0.050
009515	Mine Rock	3:1 Aqua Regia	POR	Portage	SP12-131	163.5	165.5	KCC (2020)	0.43	3700	34	0.032	<10	100	0.32	0.57	32400	0.23	46	4.6	44	2.4	61	11000	1.3	<0.050
009516	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP12-131	108	110	KCC (2020)	0.23	8000	67	0.011	<10	14	0.21	0.060	42600	0.040	34	27	51	0.75	53	61000	3.9	<0.050
009517	Mine Rock	3:1 Aqua Regia	POR	Portage	SP12-131	33	35	KCC (2020)	0.29	3800	28	0.11	<10	35	0.35	0.050	48500	0.050	45	23	25	2.3	59	41900	1.1	<0.050
009518	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Camp	SP12-125	34	36	KCC (2020)	0.29	15200	100	0.21	<10	125	0.59	0.030	18500	0.15	44	25	41	22	49	63200	5.0	0.090
009519	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Camp	SP12-125	22	24	KCC (2020)	0.060	7100	70	0.060	<10	32	0.48	0.070	29400	0.10	38	29	43	11	18	64000	3.9	0.060
009520	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Camp	SP12-126	72	74	KCC (2020)	0.040	14900	35	0.018	<10	<10.0000	0.55	0.020	38900	0.050	37	31	36	3.1	24	72000	6.5	0.10
009521	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Camp	SP12-126	167	169	KCC (2020)	0.39	31300	34	0.074	<10	30	0.19	0.15	51900	0.060	23	40	154	1.3	71	67300	7.5	0.070
009522	3:1 Aqua Regia	VBX	Camp	SP12-126	228.5	231.5	KCC (2020)	0.51	31400	127	0.20	<10	119	0.49	0.33	52400	0.14	56	38	109	78	111	64900	6.9	0.11	
009523	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Camp	SP12-126	297	299	KCC (2020)	0.36	36400	24	0.028	<10	42	0.38	0.030	48400	0.11	11	44	140	15	141	77400	10	0.14
009524	3:1 Aqua Regia	TRA	Portage	SP12-127	19.2	21.2	KCC (2020)	0.37	6000	71	0.49	<10	51	0.70	0.97	30200	0.65	141	11	24	6.4	16	24000	2.8	0.12	
009525	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP12-127	149	151	KCC (2020)	2.6	6800	70	0.20	<10	75	0.57	0.38	1000	0.73	52	18	45	3.5	31	17400	3.2	0.070
009526	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-127	258	260	KCC (2020)	2.5	8100	55	0.35	<10	32	0.77	0.63	1000	1.0	500	15	54	4.3	42	24300	5.0	0.24
009527	Mine Rock	3:1 Aqua Regia	POR	Portage	SP12-127	272.1	275	KCC (2020)	1.3	7300	20	0.096	<10	103	0.33	0.39	600	0.29	57	34	48	4.6	38	18300	2.5	0.050
009528	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-127	373	375	KCC (2020)	0.75	17800	46	0.46	<10	109	0.91	0.30	3500	0.15	82	34	68	21	66	50600	8.4	0.11
009529	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP12-127	384	386	KCC (2020)	3.0	21400	83	1.7	<10	37	0.94	0.14	3000	0.18	65	34	92	23	70	83100	10	0.12	
009530	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Camp	SP12-121	323	325	KCC (2020)	1.5	41800	53	0.092	<10	42	0.40	0.17	52800	0.11	25	49	148	14	114	81600	12	0.14
009531	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Camp	SP12-121	271	273	KCC (2020)	0.11	43000	11	0.0076	<10	33	0.25	0.020	47000	0.10	11	43	170	11	131	80600	14	0.18
009532	3:1 Aqua Regia	And. tuf. metaseds	Camp	SP12-121	116	118	KCC (2020)	0.14	15100	52	0.077	<10	173	1.1	0.32	49900	0.17	37	36	205	39	103	57300	6.4	0.090	
009533	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Camp	SP12-121	71	73	KCC (2020)	0.060	35800	4.4	0.0015	<10	<10.0000	0.14	0.020	51800	0.080	17	33	315	1.1	72	63800	12	0.090
009534	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP12-119A	166	167.5	KCC (2020)	0.33	3200	48	0.15	<10	70	0.44	0.53	9000	0.43	49	18	27	1.4	43	43800	1.2	0.050
009535	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-119A	73	75	KCC (2020)	0.91	7600	53	0.41	<10	104	0.49	0.36	34800	1.2	54	11	36	4.9	29	24000	3.9	0.070
009536	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-119A	24	26	KCC (2020)	4.4	13300	71	0.30	<10	60	0.61	0.30	500	0.44	301	19	65	5.0	37	26200	4.6	0.17
009537	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP12-119A	198	199	KCC (2020)	4.4	12500	108	0.025	16	64	0.63	0.13	48800	0.27	48	32	38	23	64	51900	3.9	0.060
009538	3:1 Aqua Regia	TRA	Portage	SP12-114	529	530.5	KCC (2020)	6.6	17900	36	1.7	13	17	0.74	0.40	2800	0.25	90	33	69	15	126	68900	4.6	0.16	
009539	Mine Rock	3:1 Aqua Regia	LAM	Portage	SP12-114	344.8	345.6	KCC (2020)	0.14	50100	48	0.096	22	232	7.1	0.010	2400	0.11	19	95	1183	125	81	99600	15	0.51
009540	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-114	305	306	KCC (2020)	0.33	8700	71	0.046	17	45	0.69	0.55	12900	0.56	42	18	57	7.2	30	31600	3.9	0.090
009541	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP12-114	279.5	280.5	KCC (2020)	0.34	6600	99	0.035	11	32	0.41	0.25	62300	0.23	64	18	38	7.9	39	30300	2.1	0.070
009542	Mine Rock	3:1 Aqua Regia	POR	Portage	SP12-114	152	153	KCC (2020)	0.24	5600	45	0.018	12	191	0.36	0.35	45100	0.93	39	5.0	43	5.3	11	16000	2.6	0.050
009543	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP12-114	45	46	KCC (2020)	0.10	10300	98	0.023	13	51	0.49	0.060	43400	0.080	24	20	32	10	24	53800	3.4	0.060
009544	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP11-104	382	384	KCC (2020)	5.1	25400	53	0.86	12	19	1.6	0.26	2000	0.54	41	32	70	20	130	78000	8.7	0.21
009545	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP11-104	356	357	KCC (2020)	6.2	12100	64	0.58	12	39	7.6	2.1	500	3.9	500	6.1	31	11	252	17700	15	1.1	
009546	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP11-104	320.9	322.9	KCC (2020)	1.6	10500	58	0.38	12	36	0.75	0.37	700	0.38	266	15	57	6.5	39	26800	5.4	0.13
009547	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-117A	411	413	KCC (2020)	0.23	22900	2.9	0.0053	<10	83	0.30	0.020	53000	0.030	29	24	85	2.0	65	48000	7.5	0.070
009548	3:1 Aqua Regia	POR	Portage	SP12-117A	338	341	KCC (2020)	6.7	23500	38	0.96	11	22	1.5	0.17	2800	0.49	25	33	72	19	72	64100	7.4	0.24	
009549	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-117A	299	301	KCC (2020)	2																	

Table B-6. Elemental Content Results

Sample ID	Classification	Digest Method ^(A)	Final Lithology Group	Zone	Drillhole	From	To	Data Source	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Cr	Ce	Cu	Fe	Ga	Ge	
									mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
						m	m		0.75	--	18	4E-06	10	4250	30	0.085	--	1.5	--	250	1020	--	600	--	190	15
009573	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP12-142	41	43	KCC (2020)	8.9	10200	174	0.75	<10	46	0.72	0.17	8700	0.90	18	29	65	6.3	74	53400	2.7	0.10
009574	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-142	218	220	KCC (2020)	4.9	24500	21	1.00	<10	34	1.7	0.090	4300	0.16	47	31	58	25	108	62700	6.2	0.18
009575	Mine Rock	3:1 Aqua Regia	POR	Portage	SP12-142	230	232	KCC (2020)	232	13200	112	0.43	<10	24	1.2	0.26	4700	0.17	175	33	81	10	98	71500	3.7	0.17
009576	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP12-142	319.5	321.5	KCC (2020)	1.5	32100	23	0.28	22	80	1.8	0.24	4100	0.17	59	37	106	42	82	76400	10	0.23
009577	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP12-143	26	28	KCC (2020)	0.990	18500	8.1	0.012	<10	19	0.35	0.12	37900	0.13	34	27	70	0.65	76	66200	6.0	0.11
009578	Ore-Grade Materials	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP12-143	173.1	175.1	KCC (2020)	0.72	15000	12	0.60	<10	46	0.98	0.12	37000	0.070	40	24	78	23	66	55700	4.5	0.12
009579	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP12-143	340	342	KCC (2020)	0.14	15800	18	0.020	14	38	0.49	0.080	35600	0.020	34	28	77	15	105	57200	4.9	0.11
009580	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP11-100	263	264.5	KCC (2020)	0.39	6700	136	0.20	13	60	0.42	0.37	33200	0.26	82	28	42	7.4	56	45700	2.4	0.11
009581	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP11-100	171	172	KCC (2020)	0.24	9000	68	0.024	16	100	0.60	0.24	43000	0.33	49	19	46	9.6	29	42700	3.1	0.10
009582	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP11-100	47	49	KCC (2020)	0.15	6700	20	0.018	<10	291	0.48	0.46	22300	0.090	43	4.6	33	6.6	15	11200	2.2	0.080
009583	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP11-100	457	458.5	KCC (2020)	0.57	35600	13	0.11	13	594	0.83	0.12	2700	0.18	79	34	120	35	66	56300	10	0.22
009584	Ore-Grade Materials	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP11-100	437	439	KCC (2020)	1.2	9000	103	0.78	16	56	3.1	2.1	600	1.1	500	3.0	49	43	318	13900	9.7	0.76
009585	Mine Rock	3:1 Aqua Regia	LAM	Portage	SP11-100	325	337	KCC (2020)	0.49	9600	49	0.20	15	132	1.1	0.76	1100	0.22	94	8.8	36	6.8	14	18500	3.3	0.17
009586	Mine Rock	3:1 Aqua Regia	POR	Portage	SP11-100	349	351	KCC (2020)	0.54	7200	50	0.15	<10	118	0.87	0.56	3500	1.4	134	9.1	62	2.6	29	16900	2.6	0.16
009587	Ore-Grade Materials	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP12-151	86.5	88.5	KCC (2020)	2.7	15600	6.3	0.34	<10	21	1.6	0.070	4700	1.7	22	28	62	1.7	176	46000	4.2	0.090
009588	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-151	202.5	204.5	KCC (2020)	1.5	10300	9.5	0.15	13	145	0.59	1.0	2900	8.3	255	14	66	8.2	161	28300	4.9	0.22
009589	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP12-171	50	52	KCC (2020)	0.40	13500	6.2	0.11	<10	50	0.61	0.050	4000	0.040	29	34	91	0.61	72	61400	4.7	0.090
009590	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP12-170A	404	405.9	KCC (2020)	4.4	7900	13	0.52	16	53	0.36	0.43	21800	0.26	106	15	68	5.4	47	31300	3.4	0.12
009591	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP12-170A	232	234	KCC (2020)	0.76	11200	20	0.29	<10	111	0.68	0.010	7200	0.25	80	23	51	8.4	39	76900	5.5	0.10
009592	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP12-170A	146.9	148.9	KCC (2020)	0.68	14800	16	0.32	<10	64	0.74	0.060	4100	0.18	47	39	71	15	77	55300	3.5	0.080
009593	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP12-171	170	181	KCC (2020)	0.31	7300	6.6	0.058	<10	32	0.74	0.010	29900	0.12	28	28	108	5.1	58	72200	2.2	0.060
009594	Ore-Grade Materials	3:1 Aqua Regia	VBX	Portage	SP12-171	271	273	KCC (2020)	2.3	20000	17	0.38	<10	49	1.3	0.36	7300	0.31	19	31	86	24	87	56300	4.8	0.13
009595	Ore-Grade Materials	3:1 Aqua Regia	Vbx	Portage	SP12-171	308.1	310	KCC (2020)	6.8	24000	33	0.54	163	52	0.33	4.3	161700	3.4	500	14	42	5.5	56	33000	7.2	0.49
009596	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP12-170A	74	77	KCC (2020)	0.17	13500	11	0.044	<10	185	0.51	0.060	4400	0.040	70	27	73	0.82	46	62800	5.5	0.090
009597	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP12-165	86	88	KCC (2020)	1.1	31700	6.1	0.22	12	102	1.2	0.070	4000	0.10	63	39	114	43	65	78700	11	0.18
009598	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP12-165	172	174	KCC (2020)	2.2	24000	11	0.36	<10	52	1.2	0.41	27700	0.47	70	33	61	23	97	61100	5.4	0.17
009599	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP12-165	40	42	KCC (2020)	0.14	34000	2.9	0.0043	11	46	0.22	<0.010	2700	0.080	22	34	136	0.38	11	62000	10	0.080
009600	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP12-174	198	200	KCC (2020)	0.84	35400	5.7	0.018	<10	110	0.28	0.080	29000	0.14	30	33	131	8.7	206	64800	11	0.11
009601	Ore-Grade Materials	3:1 Aqua Regia	VBX	Portage	SP12-160	342	345	KCC (2020)	2.0	12400	23	0.42	<10	70	0.44	0.86	29900	0.24	327	20	72	12	89	39700	6.1	0.24
009602	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP12-160	287	290	KCC (2020)	5.0	23600	28	0.90	<10	21	1.4	0.44	3300	1.5	30	33	115	18	253	66300	9.2	0.26
009603	Ore-Grade Materials	3:1 Aqua Regia	VBX	Portage	SP12-185	199	201	KCC (2020)	57	4100	14	2.9	<10	37	0.22	3.2	45400	0.39	51	31	53	2.8	306	59800	2.3	0.17
009604	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP12-185	159	161	KCC (2020)	0.15	9300	4.6	0.011	<10	17	0.21	0.030	52700	0.050	44	25	36	0.41	50	53400	2.8	0.070
009605	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP12-184	211	213	KCC (2020)	0.16	12400	15	0.014	<10	108	0.54	0.020	29000	0.34	74	12	53	6.0	33	37400	5.3	0.13
009606	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP12-184	129	131	KCC (2020)	0.12	17000	6.8	0.0056	<10	49	0.42	0.030	38100	0.15	49	25	57	12	46	55900	5.6	0.12
009607	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP12-184	55	57	KCC (2020)	0.45	18400	57	0.054	<10	35	0.40	0.050	60100	0.25	48	45	71	5.2	117	73200	4.6	0.12
009608	Mine Rock	3:1 Aqua Regia	POR	Portage	SP12-183	130	132	KCC (2020)	3.2	15900	22	0.60	<10	37	0.82	2.1	16600	0.52	49	36	40	10	113	69100	3.8	0.15
009609	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP12-183	286.5	288.5	KCC (2020)	9.58	2200	3.8	0.056	<10	142	0.45	0.51	12700	0.19	85	5.0	30	0.25	18	7100	0.96	0.070
009610	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP12-183	65.3	67.7	KCC (2020)	2.3	21800	14	0.48	<10	46	0.56	0.16	5000	0.18	44	33	69	1.6	79	94900	6.4	0.080
009611	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-182	388	390	KCC (2020)	0.090	14300	2.7	0.0050	<10	63	0.19	<0.010	40600	0.020	44	24	80	5.5	41	53700	5.5	0.090
009612	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-182	272	274	KCC (2020)	0.12	11200	14	0.032	<10	55	0.67	0.040	5700	0.12	55	30	64	8.5	60	68100	3.8	0.080
009613	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP12-182	252	254	KCC (2020)	1.4	25200	16	0.33	<10	131	1.0	1.2	4900	0.060	62	34	77	28	133	57500	7.8	0.17
009614	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-182	227	229	KCC (2020)	3.0	13500	64	0.44	<10	42	0.87	1.8	4100	0.090	436	27	95	17	74	45500	6.9	0.24
009615	Mine Rock	3:1 Aqua Regia	LAM	Portage	SP12-182	183.5	185.5	KCC (2020)	0.96	41000	18	0.091	<10	340	2.9	0.27	900	2.4	39	42	415	37	110	50000	11	0.25
009616	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-182	127	129	KCC (2020)	0.060	16800	22	0.033	<10	89	0.48	0.040	4500	0.050	45	36	65	13	61	72300	7.8	0.14
009617	Ore-Grade Materials	3:1 Aqua Regia	POR	Portage	SP12-182	64	69	KCC (2020)	5.9	13200	34	2.5	<10	90	0.48	0.16	1300	0.95	48	29	46	4.7	153	35100	3.4	0.090
009618	Ore-Grade Materials	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP12-160	156	157.5	KCC (2020)	7.1	23400	18	1.6	<10	46	1.2	0.19	5400	0.30	62	34	73	29	259	58500	5.8	0.14
009619	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP12-160	115.7	117.2	KCC (2020)	0.080	8700	9.3	0.015	<10	327	0.74	0.020	13900	0.090	121	30	43	3.3	40	33400	2.5	0.12
009620	Ore-Grade Materials	3:1 Aqua Regia	VBX	Portage	SP12-160	21.6	23.6	KCC (2020)	1.6	16500	17	0.49	<10	80	0.71	0.55	4000	0.14	38	31	77	17	96	58000	5.3	0.11
009621	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-1																					

Table B-6. Elemental Content Results

Sample ID	Classification	Digest Method ^(A)	Final Lithology Group	Zone	Drillhole	From	To	Data Source	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Ce	Cu	Fe	Ga	Ge	
Units						m	m		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
10x Crustal Abundance (Price 1997)																											
009648	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-197	93.5	95	KCC (2020)	3.2	12200	21	0.27	<10	213	0.63	0.38	1000	0.77	76	6.7	36	7.5	22	14800	5.0	0.19	
009649	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP12-197	86	88	KCC (2020)	2.2	17400	46	1.1	12	49	0.79	0.050	1100	0.030	37	33	26	18	60	59400	9.9	0.20	
009650	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-197	127	129	KCC (2020)	1.8	10400	15	0.18	<10	210	0.80	0.29	4900	4.0	64	8.6	40	4.3	28	13100	3.9	0.13	
009651	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP12-197	209	211	KCC (2020)	8.3	13800	98	0.90	12	16	0.63	0.22	900	2.8	30	32	70	8.6	152	63000	6.0	0.20	
009652	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP12-197	310	312	KCC (2020)	2.7	15900	27	1.0	12	18	0.81	0.22	2300	0.38	151	33	86	17	119	63900	7.4	0.34	
009653	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-197	345	347	KCC (2020)	0.57	23400	19	0.22	13	168	0.87	0.030	4400	0.14	56	33	93	34	95	69100	10	0.23	
009654	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-161	9.5	11.5	KCC (2020)	0.21	10500	54	0.072	16	116	0.75	0.040	9200	0.030	39	38	66	24	82	61700	3.0	0.11	
009655	Ore-Grade Materials	3:1 Aqua Regia	VBX	Portage	SP12-161	265	267	KCC (2020)	2.6	9200	43	4.7	<10	20	0.49	0.86	2500	1.3	47	29	64	8.1	138	53600	3.9	0.21	
009656	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP12-162B	42	44	KCC (2020)	6.6	9900	25	2.0	12	52	0.62	0.17	4900	0.19	16	36	36	17	129	63600	3.1	0.12	
009657	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	SP10-026	60	62	KCC (2020)	0.31	22600	22	0.10	<10	138	0.70	0.070	5500	0.21	51	37	45	25	90	55900	8.7	0.18	
009658	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP13-212	118	120	KCC (2020)	0.33	12800	23	0.053	14	142	0.64	0.040	5900	0.070	52	35	53	14	69	71100	5.0	0.12	
009659	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP13-212	160	162	KCC (2020)	0.84	18000	24	0.42	14	90	0.73	0.040	3400	0.15	41	34	63	21	74	66100	9.3	0.18	
009660	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP13-213	99	101	KCC (2020)	0.18	11000	26	0.10	<10	281	0.71	0.34	1700	0.21	121	13	30	9.3	29	18700	3.9	0.17	
009661	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP13-212	160	162	KCC (2020)	0.12	6900	15	0.0079	<10	332	0.69	0.39	2400	0.13	102	10	29	7.5	26	16900	3.0	0.15	
009662	Mine Rock	3:1 Aqua Regia	POR	Portage	SP12-162B	334	336	KCC (2020)	0.43	3400	13	0.042	<10	91	0.31	0.18	3500	0.41	284	7.0	52	2.3	38	12300	2.3	0.19	
009663	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP12-199	130	132	KCC (2020)	1.8	7800	45	0.25	11	33	0.43	0.35	500	0.070	142	12	29	3.3	26	18800	3.0	0.12	
009664	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	SP12-199	187	189	KCC (2020)	1.4	14800	58	0.20	12	18	0.77	0.44	600	0.60	64	19	56	3.9	61	33400	5.0	0.14	
009665	Ore-Grade Materials	3:1 Aqua Regia	POR	Portage	SP12-199	251	253	KCC (2020)	13	6300	39	1.4	<10	98	0.49	0.67	1100	5.8	101	4.1	32	3.1	581	12600	2.6	0.14	
009666	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP13-215	82	84	KCC (2020)	0.33	7800	42	0.22	11	53	0.59	0.070	7100	0.040	45	39	34	5.4	74	61600	2.5	0.10	
009667	Mine Rock	3:1 Aqua Regia	POR	Portage	SP13-215	142	144	KCC (2020)	0.49	2700	6.1	0.075	<10	244	0.53	0.46	3400	0.17	113	14	25	0.53	16	26500	1.1	0.11	
009668	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-162B	346	348	KCC (2020)	3.9	22400	30	0.47	15	22	0.53	0.46	51800	6.2	500	28	63	19	135	54400	8.6	0.45	
009669	Ore-Grade Materials	3:1 Aqua Regia	VBX	Portage	SP12-162B	95.8	97.8	KCC (2020)	1.4	11600	44	0.35	<10	76	0.69	0.080	6100	0.10	24	35	53	22	89	51600	4.3	0.12	
009670	Mine Rock	3:1 Aqua Regia	POR	Portage	SP13-213	113	115	KCC (2020)	28	22800	61	4.7	11	28	1.3	0.16	11500	2.4	58	38	51	28	84	65000	6.7	0.19	
009671	Mine Rock	3:1 Aqua Regia	POR	Portage	SP13-215	173	175	KCC (2020)	2.9	4200	8.6	0.15	<10	105	0.56	0.54	2600	4.6	63	7.8	36	1.4	36	17100	1.7	0.10	
009672	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP12-199	304.5	306.4	KCC (2020)	1.6	14600	40	0.12	<10	52	1.1	0.29	1900	1.1	500	11	51	15	36	23000	9.4	0.40	
009673	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	SP13-217	88	90	KCC (2020)	1.0	30300	11	0.31	12	57	1.1	0.070	3600	0.30	38	44	146	72	75	67200	8.4	0.27	
009674	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP13-217	194	196	KCC (2020)	14	13900	11	3.1	20	46	1.0	0.34	33400	0.33	94	30	56	12	243	52300	3.6	0.16	
009675	Ore-Grade Materials	3:1 Aqua Regia	And tuf. metaseds	Portage	SP13-219	50	52	KCC (2020)	33	22700	28	3.2	<10	32	0.67	0.070	4000	2.1	54	41	108	24	131	77100	7.7	0.16	
009676	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	SP13-219	66	68	KCC (2020)	0.76	15800	13	0.19	<10	84	0.75	0.040	26100	0.27	51	32	67	22	32	67300	5.5	0.13	
009677	Mine Rock	3:1 Aqua Regia	POR	Portage	SP13-219	106.2	108.2	KCC (2020)	1.5	2000	3.0	0.16	<10	125	0.60	0.37	10000	0.33	92	4.4	31	0.34	23	9600	0.98	0.10	
009678	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	SP13-221	63	65	KCC (2020)	0.17	18000	6.7	0.022	<10	39	0.94	0.030	5300	0.23	42	40	347	5.5	167	76200	9.1	0.16	
009679	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	SP13-221	109	111	KCC (2020)	0.36	19300	3.8	0.073	<10	34	0.74	0.030	13800	0.17	29	41	136	0.98	116	76700	6.5	0.10	
009680	Ore-Grade Materials	3:1 Aqua Regia	VBX	Portage	SP13-218	120.2	122	KCC (2020)	0.39	16800	23	0.26	17	62	0.67	0.46	6000	0.26	119	16	33	12	37	24700	4.6	0.15	
009681	Mine Rock	3:1 Aqua Regia	POR	Portage	SP13-218	49	52	KCC (2020)	0.55	9800	117	0.071	<10	30	0.49	0.34	1200	0.23	78	31	34	7.2	76	33000	2.3	0.12	
009682	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	SP12-168	86	88	KCC (2020)	1.6	2400	9.6	0.079	<10	49	0.51	0.69	29400	2.2	83	5.3	23	1.5	17	11300	1.3	0.080	
009683	Ore-Grade Materials	3:1 Aqua Regia	VBX	Portage	SP12-168	142	144	KCC (2020)	20	6100	32	0.44	<10	43	0.32	0.080	49000	0.30	38	29	33	4.1	24	48900	2.9	0.11	
009684	Ore-Grade Materials	3:1 Aqua Regia	VBX	Portage	SP12-168	208	209.9	KCC (2020)	22	6400	16	2.5	16	36	0.47	0.37	40000	0.74	37	20	32	5.5	95	37100	3.1	0.13	
009685	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Camp	SP11-030	175	176	KCC (2020)	0.32	33600	23	0.076	<10	12	0.17	0.080	61300	0.12	22	33	56	0.80	25	107700	10	0.12	
009686	Ore-Grade Materials	3:1 Aqua Regia	TRA	Camp	SP11-030	61	62	KCC (2020)	1.0	10700	298	3.2	11	33	0.39	0.11	90700	0.090	41	32	31	14	72	53500	2.9	0.11	
009687	Ore-Grade Materials	3:1 Aqua Regia	TRA	Camp	SP11-030	53	54	KCC (2020)	1.5	9900	391	1.1	16	22	0.51	0.44	121000	0.32	97	25	18	13	38	51300	2.9	0.12	
009688	Ore-Grade Materials	3:1 Aqua Regia	And tuf. metaseds	Camp	SP11-030	41	42	KCC (2020)	1.3	15800	412	2.9	18	40	0.99	0.020	53100	0.20	34	41	35	16	37	81500	5.0	0.15	
009689	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP11-044	51	52.5	KCC (2020)	0.050	10600	18	0.0070	33	82	0.59	0.030	18700	0.060	47	28	87	44	41	60500	5.2	0.11	
009690	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP11-044	124	126	KCC (2020)	2.4	12200	203	0.11	<10														

Table B-6. Elemental Content Results

Sample ID	Classification	Digest Method ^(A)	Final Lithology Group	Zone	Drillhole	Data Source		Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga	Ge		
Units						m	m	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		
10x Crustal Abundance (Price 1997)								0.75	--	18	4E-06	10	4250	30	0.085	--	1.5	--	250	1020	--	600	--	190	15	
A00356184	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP10-022	22	24	KCC (2020)	0.19	7500	12	0.013	15	291	1.5	0.60	47100	0.12	166	8.1	26	8.2	20	16500	3.8	0.23
A00356185	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP10-022	261	263	KCC (2020)	0.19	12200	9.6	0.34	24	106	0.77	0.050	11700	0.37	14	38	86	12	72	72800	3.4	0.070
A00356186	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP10-022	334	336	KCC (2020)	25	11900	18	2.5	17	13	0.88	1.6	31800	0.79	95	29	43	9.6	114	62600	4.3	0.16
A00356187	Mine Rock	3:1 Aqua Regia	POR	Portage	SP11-053	330	332	KCC (2020)	0.83	3900	9.0	0.085	<10	213	0.65	0.47	25500	0.57	114	8.5	36	0.99	17	6400	2.0	0.14
A00356188	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP11-053	286	288	KCC (2020)	4.4	21100	34	0.82	15	15	1.3	0.15	3000	0.16	22	32	73	17	185	66200	6.5	0.14
A00356189	Ore-Grade Materials	3:1 Aqua Regia	VBX	Portage	SP11-053	224	225	KCC (2020)	2.2	8400	38	0.60	18	13	0.46	0.12	800	0.85	37	28	51	4.8	56	48500	3.4	0.11
A00356190	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP10-022	379.3	381	KCC (2020)	0.95	8900	8.2	0.15	14	182	0.46	0.33	16000	0.59	42	21	33	7.7	53	28800	3.2	0.070
A00356191	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	SP10-001	194.9	196.7	KCC (2020)	0.19	27800	31	0.023	21	127	0.97	0.060	32500	2.0	28	41	85	45	84	75100	7.1	0.21
A00356193	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	SP10-001	227	228	KCC (2020)	0.89	3800	41	0.13	14	58	0.18	0.060	44900	2.5	49	22	36	2.8	29	49200	1.4	0.070
A00356194	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP11-033	238	239.5	KCC (2020)	14	6100	26	2.7	13	183	0.56	1.1	700	2.0	77	6.1	42	3.4	160	12600	2.8	0.10
A00356195	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP11-071	36	38	KCC (2020)	0.17	10800	18	0.034	16	84	0.57	0.45	42000	0.030	78	26	37	12	57	43900	4.0	0.080
A00356196	Mine Rock	3:1 Aqua Regia	POR	Portage	SP11-071	120.8	121.8	KCC (2020)	2.1	7000	22	0.039	17	189	0.46	0.82	18700	14	57	5.1	27	7.5	25	16600	2.7	0.070
A00356197	Ore-Grade Materials	3:1 Aqua Regia	VBX	Portage	SP11-071	242.5	244.5	KCC (2020)	7.6	13600	40	1.2	21	13	0.94	0.82	5200	0.54	52	31	55	14	506	55900	4.9	0.14
A00356198	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP11-073	70	72	KCC (2020)	1.3	9600	116	1.1	30	22	0.53	0.050	44300	0.070	10	43	78	24	116	74800	4.8	0.090
A00356199	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	SP11-077	103	105	KCC (2020)	8.1	8300	98	2.0	30	44	0.57	0.060	10000	3.2	29	50	42	6.9	69	83100	3.4	0.090
A00356200	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	SP11-077	137	139	KCC (2020)	1.7	19300	89	0.51	31	24	1.3	0.060	2500	0.17	22	36	81	27	51	70700	9.7	0.12
009701	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP12-112	222	224	KCC (2020)	0.28	14300	94	0.16	17	69	0.95	0.51	3600	0.26	63	21	36	15	67	38400	4.7	0.10
009702	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Camp	BL-0287	62.3	76.2	KCC (2020)	1.3	8600	59	0.037	24	84	0.71	0.15	39100	6.2	23	31	67	7.6	88	37700	4.0	0.060
009703	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Camp	BL-0287	111.2	125	KCC (2020)	0.020	37500	14	0.0030	24	37	0.20	0.020	38600	0.050	12	39	171	9.7	73	63000	10	0.050
09878	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	SP11-081	166.7	168.7	KCC (2020)	1.2	16800	50	0.43	29	53	0.61	0.030	33200	0.14	19	38	70	48	71	74200	5.5	0.080
09882	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	SP11-077	27	23	KCC (2020)	0.23	32600	192	0.10	33	248	1.0	0.040	19500	0.050	30	55	109	81	94	61500	8.2	0.12
09883	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	SP11-077	124	125	KCC (2020)	0.54	16400	54	0.025	20	54	0.39	0.070	18800	0.040	46	26	21	48	59	50400	6.1	0.090
09884	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP11-077	155	156	KCC (2020)	1.5	20200	179	25	21	21	1.5	0.050	58800	0.20	17	41	92	46	130	67600	8.6	0.29
09885	Ore-Grade Materials	3:1 Aqua Regia	VBX	Portage	SP11-077	163	164	KCC (2020)	2.4	6000	103	2.2	28	17	0.39	1.2	54400	0.76	50	23	36	8.7	63	54000	2.2	0.070
00886	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	SP11-078	139	140	KCC (2020)	0.080	21000	3.1	0.012	13	46	0.17	0.050	50400	0.060	28	27	81	0.63	71	48400	8.9	0.060
09867	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP11-077	197	198	KCC (2020)	0.46	10900	59	0.27	25	99	0.55	0.040	16600	0.080	73	21	35	6.8	34	67200	5.4	0.12
09868	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP11-078	198	199	KCC (2020)	0.45	21600	1.2	0.22	29	101	0.99	0.070	4500	0.090	36	49	101	8.1	58	86500	9.3	0.090
09869	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP11-078	263	264	KCC (2020)	3.5	20000	12	0.54	36	70	1.5	0.070	3400	0.34	48	43	61	26	150	90800	10	0.16
09870	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP11-078	383	385	KCC (2020)	0.46	11900	8.0	0.042	27	223	1.2	0.35	4200	0.10	88	9.9	47	11	40	31100	8.4	0.14
09871	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP11-080	29	31	KCC (2020)	0.46	9000	87	0.100	27	41	0.71	0.30	2400	0.42	91	22	32	11	36	35100	3.9	0.10
09872	Mine Rock	3:1 Aqua Regia	POR	Portage	SP11-080	120	122	KCC (2020)	1.5	8800	18	0.27	20	407	0.52	0.31	3100	0.59	246	4.6	24	11	10	16100	5.2	0.17
09873	Mine Rock	3:1 Aqua Regia	POR	Portage	SP11-080	172	174	KCC (2020)	1.0	6700	17	0.13	18	173	0.64	0.80	1200	1.4	66	5.7	33	8.3	13	14500	2.8	0.080
09874	Mine Rock	3:1 Aqua Regia	LAM	Portage	SP11-080	224.2	226.2	KCC (2020)	0.56	19000	57	0.079	29	81	1.7	0.31	3200	0.20	80	26	220	32	71	45900	7.2	0.13
09875	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP11-080	266	267	KCC (2020)	0.45	6300	73	0.090	22	50	0.78	0.38	3400	0.12	69	15	38	6.0	240	34700	3.2	0.11
09876	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	SP11-081	44.1	46.1	KCC (2020)	0.24	19500	20	0.0065	25	25	0.21	0.050	39700	0.15	31	32	95	5.8	44	53200	6.5	0.060
09877	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP11-081	83.8	85.8	KCC (2020)	0.74	16600	33	0.050	28	27	0.22	0.030	57800	0.18	15	37	80	8.7	113	76200	5.4	<0.050
09879	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP11-083	42.5	44.5	KCC (2020)	7.1	17600	195	3.5	30	12	0.75	0.040	700	20	46	54	62	19	141	79900	6.0	0.11
09880	Mine Rock	3:1 Aqua Regia	POR	Portage	SP11-083	234	236	KCC (2020)	0.75	9900	43	0.21	20	163	0.64	0.48	2700	0.21	43	5.8	25	4.7	22	14100	3.5	0.080
09881	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP11-084	39	41	KCC (2020)	13	7300	73	1.4	22	14	0.66	0.090	1300	0.29	61	22	60	4.7	66	44600	4.2	0.12
09882	Mine Rock	3:1 Aqua Regia	POR	Portage	SP11-084	85	87	KCC (2020)	1.6	7100	26	0.67	18	100	0.56	0.39	3800	0.61	132	13	22	3.3	50	23000	3.5	0.17
09883	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP11-084	138	140	KCC (2020)	0.66	12100	75	0.33	25	20	0.51	0.55	3600	0.19	51	25	39	14	39	45200	5.6	0.11
09884	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP11-094	84	86	KCC (2020)	0.35	2300	335	0.039	17	51	0.33	0.070	48500	0.19	40	18	24	0.73	41	32300	1.3	0.060
09885	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP11-094	122.5	124.5	KCC (2020)	0.25	2700	194	0.017	24	37	0.25	0.17	42900	0.080	44	30	17	1.3	53	45500	1.3	0.070
09886	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP11-094	198.5	200.5	KCC (2020)	0.37	7300	57	0.0077	18	190	0.48	0.59	42300	0.81	126	8.5	14	11	17	17000	4.0	0.15
09887	Mine Rock	3:1 Aqua Regia	POR	Portage	SP11-094	308	309	KCC (2020)	1.1	7800	58	0.19	12	65	0.67	0.080	400	0.20	33	11	58	5.0	33	19000	3.3	0.070
09888	Mine Rock	3:1 Aqua Regia	And tuf metaseds</																							

Table B-6. Elemental Content Results

Sample ID	Classification	Digest Method ^(A)	Final Lithology Group	Zone	Drillhole	From	To	Data Source	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Ce	Cu	Fe	Ga	Ge	
Units						m	m		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
10x Crustal Abundance (Price 1997)																											
									0.75	--	18	4E-06	10	4250	30	0.085	--	1.5	--	250	1020	--	600	--	190	15	
R00017801	Mine Rock	3:1 Aqua Regia	TRA	Camp	BL-0282D	52.85	53.46	KCC (2020)	0.17	10100	86	0.019	<10	61	0.23	0.030	25900	0.060	40	22	27	7.9	69	46800	4.1	0.070	
R00017808	One-Grade Materials	3:1 Aqua Regia	VBX	East Extension	BL-0319	25.3	25.66	KCC (2020)	0.17	3500	86	0.16	16	36	0.33	0.19	47700	0.10	22	12	45	4.0	13	69700	1.6	0.070	
R00017838	Mine Rock	3:1 Aqua Regia	TRA	Camp	BL-0282D	100.49	100.89	KCC (2020)	0.050	30000	11	0.014	<10	13	0.19	0.030	53200	0.060	29	30	114	1.3	108	65100	9.8	0.070	
R00017839	Mine Rock	3:1 Aqua Regia	VBX	Camp	BL-0282D	126.31	126.74	KCC (2020)	0.12	33200	13	0.013	<10	17	0.13	0.080	53300	0.070	19	32	242	1.2	85	60300	11	0.050	
R00017823	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Camp	BL-0283	24.78	25.91	KCC (2020)	0.16	27700	9.2	0.0020	21	12	0.070	0.030	42900	0.060	27	37	127	1.4	54	70900	8.7	0.060	
R00017824	One-Grade Materials	3:1 Aqua Regia	And. tuf. metaseds	Camp	BL-0283	83.36	84.12	KCC (2020)	0.52	25500	105	0.31	11	26	0.19	0.12	54300	0.25	34	44	93	1.1	60	60600	7.1	0.060	
R00017802	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Camp	BL-0284	11.28	12.19	KCC (2020)	0.10	35100	5.5	0.017	18	34	0.26	0.040	15600	0.090	40	35	126	1.6	72	80100	12	0.080	
R00017825	Mine Rock	3:1 Aqua Regia	POR	Camp	BL-0284	50.29	50.9	KCC (2020)	0.080	13600	90	0.00050	19	29	0.39	<0.010	30300	0.040	42	29	48	1.5	10	52500	4.1	0.060	
R00017803	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Camp	BL-0284	74.8	76.14	KCC (2020)	0.31	21100	43	0.021	<10	18	0.23	0.050	49700	0.040	27	28	110	4.8	61	51200	5.9	0.060	
R00017826	One-Grade Materials	3:1 Aqua Regia	VBX	Camp	BL-0285D	25.3	25.57	KCC (2020)	8.5	13000	451	5.1	25	35	0.34	0.12	53600	0.33	23	29	52	16	64	68300	3.7	0.10	
R00017804	Mine Rock	3:1 Aqua Regia	VBX	Camp	BL-0285D	46.73	47.46	KCC (2020)	1.5	10900	55	0.69	15	269	0.40	0.4	79400	0.34	459	26	31	21	79	50500	5.7	0.29	
R00017860	Mine Rock	3:1 Aqua Regia	TRA	Camp	BL-0285D	73.91	75.68	KCC (2020)	0.32	21400	171	0.10	18	63	0.43	0.16	44000	0.090	43	41	28	33	93	68600	8.4	0.090	
R00017847	Mine Rock	3:1 Aqua Regia	TRA	Camp	BL-0285D	100.77	101.16	KCC (2020)	0.020	34400	17	0.0077	<10	14	0.27	0.030	28300	0.050	30	40	25	1.5	87	96500	16	0.11	
R00017841	Mine Rock	3:1 Aqua Regia	VBX	Camp	BL-0285D	125.43	126.46	KCC (2020)	0.060	33000	19	0.0085	17	24	0.070	0.010	37200	0.030	11	32	273	5.3	78	51800	8.4	0.12	
R00017842	Mine Rock	3:1 Aqua Regia	TRA	Camp	BL-0285D	143.59	144.11	KCC (2020)	0.060	36300	24	0.0050	11	37	0.080	0.14	49500	0.070	24	50	105	5.5	108	62900	11	0.060	
R00017805	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	BL-0286	10.42	11.86	KCC (2020)	2.0	5400	95	0.17	14	77	0.37	0.19	35200	1.2	70	24	26	3.0	104	43800	1.7	0.070	
R00017806	One-Grade Materials	3:1 Aqua Regia	And. tuf. metaseds	Portage	BL-0286	40.72	41.18	KCC (2020)	0.62	5100	334	7.9	24	37	0.33	0.070	55500	0.070	13	21	51	4.5	18	62900	1.7	<0.050	
R00017827	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Camp	BL-0287	57.91	58.64	KCC (2020)	1.1	24000	169	0.18	14	21	0.20	0.39	72400	0.16	57	55	84	1.3	139	91500	7.0	0.080	
R00017843	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Camp	BL-0287	118.41	118.9	KCC (2020)	0.15	22600	5.1	0.0034	<10	20	0.10	0.11	54500	0.15	35	21	37	0.76	62	43900	7.3	0.050	
R00017828	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Camp	BL-0288	24.99	25.12	KCC (2020)	0.090	31200	36	0.13	12	27	0.30	0.030	58300	0.070	27	34	81	5.8	71	61000	9.0	0.070	
R00017829	One-Grade Materials	3:1 Aqua Regia	And. tuf. metaseds	Camp	BL-0288	60.2	60.56	KCC (2020)	1.5	32300	63	0.54	13	98	0.55	0.010	61200	0.060	21	33	118	27	91	62600	9.1	0.090	
R00017844	One-Grade Materials	3:1 Aqua Regia	And. tuf. metaseds	Camp	BL-0288	101.5	102.5	KCC (2020)	0.090	32500	20	0.012	<10	60	0.36	0.030	71100	0.060	32	35	73	2.6	34	63900	9.7	0.080	
R00017881	One-Grade Materials	3:1 Aqua Regia	POR	Portage	BL-0289	10.12	10.79	KCC (2020)	0.26	9000	135	0.40	30	37	0.88	0.020	3800	0.080	38	67	39	11	18	100500	2.9	0.080	
R00017882	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	BL-0289	24.54	25.12	KCC (2020)	0.27	5200	92	0.062	12	39	0.40	0.020	39200	0.070	43	32	36	6.6	9.8	67500	2.9	0.080	
R00017909	Mine Rock	3:1 Aqua Regia	TRA	Camp	BL-0282D	84.25	84.64	KCC (2020)	0.16	29100	61	0.056	27	260	0.55	1.5	43200	0.15	38	35	59	135	83	83400	10	0.15	
R00017807	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	BL-0290	30.78	31.52	KCC (2020)	0.090	4400	110	0.17	12	50	0.21	0.020	48700	0.080	34	32	27	6.2	19	59400	1.7	0.060	
R00017830	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	BL-0290	51.82	52.73	KCC (2020)	0.13	4700	118	0.042	<10	41	0.20	0.040	38000	0.070	40	35	28	3.8	13	78500	2.5	0.060	
R00017831	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	BL-0290	74.22	74.43	KCC (2020)	0.030	19500	20	0.0042	<10	13	0.26	0.010	33800	0.050	33	27	38	1.6	8.7	74700	10	0.070	
R00017832	Mine Rock	3:1 Aqua Regia	POR	East Extension	BL-0293	10.67	11.09	KCC (2020)	0.23	2400	70	0.15	<10	80	0.54	0.47	55100	0.38	49	6.0	23	1.1	13	13700	1.2	0.060	
R00017833	Mine Rock	3:1 Aqua Regia	POR	East Extension	BL-0293	25.3	25.6	KCC (2020)	0.18	2000	54	0.054	12	114	0.35	0.24	82600	0.53	59	4.9	27	1.5	8.3	24000	1.1	0.070	
R00017834	Mine Rock	3:1 Aqua Regia	POR	East Extension	BL-0293	48.89	49.68	KCC (2020)	0.25	4200	53	0.071	11	442	0.55	0.44	43600	0.44	69	5.5	30	5.6	23	14100	2.0	0.080	
R00017883	Mine Rock	3:1 Aqua Regia	VBX	East Extension	BL-0294	8.93	10.42	KCC (2020)	0.25	4000	37	0.12	11	107	0.69	0.49	43800	0.22	56	5.4	25	4.5	16	13000	1.9	0.070	
R00017884	Mine Rock	3:1 Aqua Regia	VBX	East Extension	BL-0294	22.86	22.95	KCC (2020)	0.60	3300	54	0.11	<10	79	0.57	0.41	39900	0.43	51	5.8	34	2.8	17	14600	1.6	0.070	
R00017885	Mine Rock	3:1 Aqua Regia	VBX	East Extension	BL-0294	49.38	50.81	KCC (2020)	0.42	13600	75	0.029	22	82	0.41	0.070	44700	0.20	16	31	72	16	51	81100	5.7	0.070	
R00017835	Mine Rock	3:1 Aqua Regia	VBX	East Extension	BL-0295	11.28	11.83	KCC (2020)	0.14	2600	381	0.012	11	28	0.26	0.35	27400	0.070	99	34	25	1.2	61	51400	1.3	0.080	
R00017808	Mine Rock	3:1 Aqua Regia	VBX	East Extension	BL-0295	74.52	74.98	KCC (2020)	0.090	5600	158	0.020	14	26	0.47	0.020	51700	0.060	16	35	36	10	71	45700	1.6	<0.050	
R00017845	Mine Rock	3:1 Aqua Regia	VBX	East Extension	BL-0295	111.86	112.72	KCC (2020)	0.44	6500	123	0.074	15	45	0.47	0.050	43100	0.11	21	25	47	8.3	61	46400	2.7	<0.050	
R00017846	One-Grade Materials	3:1 Aqua Regia	VBX	East Extension	BL-0295	124.05	124.66	KCC (2020)	0.65	2200	226	0.58	14	47	0.58	0.040	58300	1.4	24	22	62	2.0	33	54800	1.8	<0.050	
R00017886	Mine Rock	3:1 Aqua Regia	TRA	Portage	BL-0297	10	10.79	KCC (2020)	0.22	10800	123	0.063	12	36	0.15	0.14	54800	0.040	32	34	26	38	34	66100	3.8	0.070	
R00017887	One-Grade Materials	3:1 Aqua Regia	TRA	Portage	BL-0297	24.84	25.12	KCC (2020)	0.64	4600	100	0.39	<10	42	0.22	0.040	62700	2.4	32	34	32	7.0	71	54900	1.6	<0.050	
R00017888	Mine Rock	3:1 Aqua Regia	TRA	Portage	BL-0297	47.85	48.46	KCC (2020)	0.080	19600	60	0.021	<10	14	0.13	0.010	53400	0.050									

Table B-6. Elemental Content Results

Sample ID	Classification	Digest Method ^(A)	Final Lithology Group	Zone	Drillhole	Data Source		Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Ce	Cu	Fe	Ga	Ge				
						m	m	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
						10x Crustal Abundance (Price 1997)	10x Crustal Abundance (Price 1997)	0.75	--	18	4E-06	10	4250	30	0.085	--	1.5	--	250	1020	--	600	--	190	15				
R00017876	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	BL-0309	10.36	11.28	KCC (2020)	0.51	17400	35	0.32	11	83	0.39	0.080	36300	0.060	40	31	39	31	59	51400	5.5	0.070			
R00017877	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	BL-0309	24.99	26.21	KCC (2020)	0.14	24100	61	0.036	<10	19	0.17	0.11	51500	0.050	16	45	99	1.9	46	60800	4.6	<0.050			
R00017878	Mine Rock	3:1 Aqua Regia	And tuf metaseds	East Extension	BL-0316	51.82	52.62	KCC (2020)	0.080	35200	24	0.011	<10	10	0.18	0.010	52700	0.060	16	37	137	0.79	107	57100	7.6	<0.050			
R00017881	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	BL-0310	10.15	12.5	KCC (2020)	0.10	24700	48	0.045	<10	19	0.16	0.020	66500	0.060	18	35	111	1.6	45	50400	4.9	<0.050			
R00017882	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	BL-0310	50.69	51.24	KCC (2020)	0.17	13500	63	0.080	13	66	0.36	0.030	45200	0.030	33	36	58	28	134	53600	2.9	<0.050			
R00017883	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	BL-0310	75.19	75.8	KCC (2020)	0.65	8200	112	0.11	12	37	0.22	0.080	30100	0.16	35	46	72	13	169	58500	3.2	<0.050			
R00017854	Ore-Grade Materials	3:1 Aqua Regia	And tuf metaseds	Portage	BL-0311	101.5	102.72	KCC (2020)	0.69	8500	53	0.72	13	39	0.45	0.070	32200	0.090	35	28	32	4.2	42	54900	3.6	<0.050			
R00017855	Ore-Grade Materials	3:1 Aqua Regia	And tuf metaseds	Portage	BL-0312	51.51	53.74	KCC (2020)	2.3	15400	74	2.0	14	143	0.48	0.24	38400	0.040	74	30	29	29	65	56800	5.6	0.080			
R00017856	Ore-Grade Materials	3:1 Aqua Regia	And tuf metaseds	Portage	BL-0312	100.58	102.11	KCC (2020)	0.75	10100	49	0.96	<10	44	0.52	0.13	29400	0.030	37	28	35	6.2	47	50200	4.5	0.060			
R00017857	Mine Rock	3:1 Aqua Regia	And tuf metaseds	East Extension	BL-0313	21.95	23.47	KCC (2020)	0.080	3100	72	0.0091	<10	27	0.42	0.080	38400	0.090	36	26	20	1.4	79	33800	0.84	<0.050			
R00017858	Ore-Grade Materials	3:1 Aqua Regia	And tuf metaseds	East Extension	BL-0313	50.9	52.43	KCC (2020)	0.48	5700	221	1.4	<10	24	0.41	0.030	41200	0.13	19	28	39	5.6	52	33600	2.0	<0.050			
R00017863	Mine Rock	3:1 Aqua Regia	And tuf metaseds	East Extension	BL-0313	99.67	100.58	KCC (2020)	0.13	18300	155	0.018	<10	127	0.76	0.040	26600	0.090	36	19	29	35	40	88300	6.6	0.10			
R00017859	Mine Rock	3:1 Aqua Regia	And tuf metaseds	East Extension	BL-0313	122.53	124.05	KCC (2020)	0.050	12200	56	0.0042	<10	160	0.95	0.030	29400	0.050	47	20	29	13	38	67000	4.7	0.080			
R00017864	Mine Rock	3:1 Aqua Regia	And tuf metaseds	East Extension	BL-0314	10.97	11.67	KCC (2020)	0.87	4100	286	0.10	<10	45	0.52	0.040	49800	0.34	29	21	27	3.1	40	37400	1.7	<0.050			
R00017865	Mine Rock	3:1 Aqua Regia	And tuf metaseds	East Extension	BL-0315	43.28	44.5	KCC (2020)	0.32	4100	204	0.042	<10	48	0.50	0.070	37600	0.080	26	28	17	2.9	74	39500	1.2	<0.050			
R00017866	Mine Rock	3:1 Aqua Regia	And tuf metaseds	East Extension	BL-0315	74.68	76.2	KCC (2020)	0.37	11400	202	0.28	<10	60	0.61	0.040	20300	0.13	48	24	29	14	35	34700	4.0	0.070			
R00017867	Ore-Grade Materials	3:1 Aqua Regia	And tuf metaseds	East Extension	BL-0315	100.4	101.19	KCC (2020)	1.8	3400	279	0.90	<10	104	0.22	0.11	149000	1.2	26	13	32	5.0	36	37600	1.3	<0.050			
R00017868	Mine Rock	3:1 Aqua Regia	And tuf metaseds	East Extension	BL-0315	125.88	127.1	KCC (2020)	0.30	14100	245	0.036	17	80	0.69	0.030	31200	0.12	37	21	39	31	35	86500	4.8	0.070			
R00017869	Mine Rock	3:1 Aqua Regia	And tuf metaseds	East Extension	BL-0316	29.87	31.39	KCC (2020)	0.070	5000	67	0.0047	10	46	0.49	0.040	60100	0.10	42	22	21	6.8	36	35800	1.8	0.050			
R00017879	Mine Rock	3:1 Aqua Regia	And tuf metaseds	East Extension	BL-0316	98.45	99.97	KCC (2020)	0.060	2600	27	0.0060	10	30	0.37	0.030	80400	0.040	43	15	13	0.98	27	53800	1.0	0.050			
R00017870	Mine Rock	3:1 Aqua Regia	And tuf metaseds	East Extension	BL-0316	125.58	127.1	KCC (2020)	0.34	4300	109	0.076	10	53	0.61	0.070	58600	0.14	31	31	14	2.8	36	43900	1.3	<0.050			
R00017904	Mine Rock	3:1 Aqua Regia	VBX	East Extension	BL-0319	10.24	10.67	KCC (2020)	0.24	3400	253	0.19	10	58	0.24	0.020	27700	0.13	71	22	55	2.2	47	51200	1.8	<0.050			
R00017905	Mine Rock	3:1 Aqua Regia	VBX	East Extension	BL-0319	44.81	45.72	KCC (2020)	0.030	4400	30	0.0044	10	51	0.41	0.040	51800	0.080	58	25	35	2.8	36	53800	1.9	0.060			
R00017910	Mine Rock	3:1 Aqua Regia	VBX	East Extension	BL-0344	20.54	21.31	KCC (2020)	0.070	18800	30	0.044	10	117	0.69	<0.010	35300	0.10	61	26	53	50	26	61000	7.5	0.090			
R00017911	Mine Rock	3:1 Aqua Regia	TRA	East Extension	BL-0346	6.4	7.07	KCC (2020)	5.6	2500	295	0.18	10	20	0.27	0.37	30900	2.1	46	45	5.0	1.5	64	70300	1.4	<0.050			
R00017912	Mine Rock	3:1 Aqua Regia	And tuf metaseds	East Extension	BL-0343	50.17	50.81	KCC (2020)	0.15	7500	62	0.026	10	48	0.42	0.13	51000	0.10	48	26	22	17	61	57400	2.5	0.060			
R00017913	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	BL-0323	93.57	94.49	KCC (2020)	0.060	41800	2.0	0.010	10	57	0.13	0.010	32900	0.050	22	39	245	2.7	31	73600	1.6	0.13			
R00017914	Mine Rock	3:1 Aqua Regia	TRA	Portage	BL-0323	150.42	150.88	KCC (2020)	0.030	36700	2.4	0.013	10	14	0.11	<0.010	30900	0.040	9.8	29	98	0.94	46	55800	8.9	<0.050			
R00017915	Mine Rock	3:1 Aqua Regia	TRA	Portage	BL-0323	253.14	254.05	KCC (2020)	1.2	3000	5.2	0.034	10	127	0.52	0.13	3600	2.2	133	9.1	4.0	0.20	58	16400	1.9	0.11			
R00017916	Mine Rock	3:1 Aqua Regia	TRA	Portage	BL-0323	300.26	301.17	KCC (2020)	1.2	21200	8.1	0.035	11	83	0.75	1.4	28600	0.44	220	46	70	17	199	85400	10.0	0.26			
R00017917	Mine Rock	3:1 Aqua Regia	TRA	Portage	BL-0323	400.81	401.73	KCC (2020)	0.22	15200	8.8	0.015	16	135	0.80	0.45	35300	0.090	65	29	43	41	61	67400	8.6	0.080			
R00017918	Ore-Grade Materials	3:1 Aqua Regia	VBX	East Extension	BL-0326	24.44	24.87	KCC (2020)	2.0	5500	302	2.0	12	59	0.24	0.050	60200	1.1	19	27	19	7.0	44	68200	2.8	0.050			
R00017919	Mine Rock	3:1 Aqua Regia	VBX	East Extension	BL-0326	47.91	48.59	KCC (2020)	0.070	22500	9.0	0.014	19	310	0.74	<0.010	40200	0.15	58	25	72	99	67	58800	9.0	0.090			
R00017920	Mine Rock	3:1 Aqua Regia	TRA	East Extension	BL-0326	65.62	66.26	KCC (2020)	0.35	3700	174	0.039	13	24	0.45	0.070	55300	0.39	33	20	4.0	2.1	30	70000	1.8	<0.050			
R00017921	Mine Rock	3:1 Aqua Regia	VBX	East Extension	BL-0327	10.12	10.82	KCC (2020)	0.13	21700	20	0.020	13	76	0.97	0.030	31100	0.10	39	20	17	17	43	72800	9.2	0.090			
R00017922	Mine Rock	3:1 Aqua Regia	VBX	East Extension	BL-0327	75.71	76.2	KCC (2020)	0.30	6000	73	0.073	<10	86	0.57	0.49	23700	0.080	73	5.8	20	6.0	24	12900	2.7	0.080			
R00017923	Mine Rock	3:1 Aqua Regia	VBX	East Extension	BL-0331	15.94	16.76	KCC (2020)	0.99	6700	261	0.061	23	44	0.61	0.34	45100	0.27	43	41	6.0	6.4	38	92400	3.1	0.060			
R00017925	Ore-Grade Materials	3:1 Aqua Regia	VBX	East Extension	BL-0328	24.69	25.24	KCC (2020)	0.19	14800	27	0.041	16	54	0.71	0.040	48300	0.080	44	18	13	12	46	63800	7.4	0.080			
R00017926	Mine Rock	3:1 Aqua Regia	VBX	East Extension	BL-0328	50.99	52.06	KCC (2020)	0.14	17300	38	0.035	<10	72	0.67	0.030	33400	0.070	47	19	11	18	45	53900	6.1	0.080			
R00017927	Mine Rock	3:1 Aqua Regia	POR	East Extension	BL-0328	71.32	71.99	KCC (2020)	0.47	2800	51	0.20	15	74	0.29	0.39	45600	0.12	51	4.9	2.0	0.82	18	10000	1.1	0.060			
R00017928	Mine Rock	3:1 Aqua Regia	VBX	East Extension	BL-0330	37.34	38.1	KCC (2020)</																					

Table B-6. Elemental Content Results

Sample ID	Classification	Digest Method ^(A)	Final Lithology Group	Zone	Drillhole	From	To	Data Source	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Ce	Cu	Fe	Ga	Ge	
Units						m	m		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
10x Crustal Abundance (Price 1997)																											
W-007	Ore-Grade Materials	3:1 Aqua Regia	And tuf metaseds	Portage	PM-DH-01	48	49	WSP (2021)	0.75	--	18	4E-06	10	4250	30	0.085	--	1.5	--	250	1020	--	600	--	190	15	
W-008	Ore-Grade Materials	3:1 Aqua Regia	POR	Portage	PM-DH-02	150	151	WSP (2021)	4.0	7000	28	0.86	<10	248	0.71	0.63	400	0.26	298	10	36	298	46	13700	4.1	0.18	
W-009	Ore-Grade Materials	3:1 Aqua Regia	POR	Portage	PM-DH-01	198	199	WSP (2021)	3.3	16600	16	0.84	16	109	1.1	0.040	4000	0.29	39	40	57	39	92	77300	5.3	0.16	
W-010	Mine Rock	3:1 Aqua Regia	TRA	Portage	PM-DH-03	302	303	WSP (2021)	1.0	24700	16	0.18	<10	158	1.3	0.13	5100	1.1	67	30	102	67	105	64400	10	0.17	
W-011	Mine Rock	3:1 Aqua Regia	POR	Portage	PM-DH-02	78	79	WSP (2021)	2.8	3200	22	0.33	<10	364	0.37	0.62	700	0.030	58	4.3	35	58	61	10500	1.3	0.10	
W-012	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	PM-DH-03	349	350	WSP (2021)	3.9	13200	16	1.2	12	27	1.2	0.16	2400	0.24	62	32	58	62	131	68200	5.5	0.22	
W-013	Ore-Grade Materials	3:1 Aqua Regia	VBX	Portage	PM-DH-02	200	201	WSP (2021)	5.6	24600	115	1.3	16	44	1.1	0.080	2400	0.090	39	40	75	39	102	64700	10	0.16	
W-014	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	PM-DH-03	245	246	WSP (2021)	4.9	24900	27	1.2	16	32	1.8	0.21	3400	0.24	109	36	78	109	201	74300	7.8	0.28	
W-015	Ore-Grade Materials	3:1 Aqua Regia	And tuf metaseds	Portage	PM-DH-02	299	300	WSP (2021)	4.6	28800	38	1.6	13	34	1.3	0.070	3100	0.18	80	36	88	80	107	76300	12	0.28	
W-016	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SM20-001	5	6	WSP (2021)	1.7	8700	54	2.8	11	94	0.78	0.74	31800	0.42	161	7.0	36	161	13	23400	5.2	0.24	
W-017	Ore-Grade Materials	3:1 Aqua Regia	POR	Portage	PM-DH-02	249	250	WSP (2021)	4.7	8900	16	1.4	<10	387	0.81	0.33	1100	0.18	56	4.0	47	56	25	11500	4.3	0.12	
W-018	Mine Rock	3:1 Aqua Regia	VBX	Portage	SM20-001	150	151	WSP (2021)	1.2	4900	39	0.20	<10	81	0.33	0.36	900	3.0	53	17	26	53	55	22800	1.5	0.080	
W-019	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	PM-DH-03	51	52	WSP (2021)	4.6	5500	60	0.73	<10	38	0.53	0.54	300	4.4	100	22	51	100	193	28400	2.3	0.13	
W-020	Mine Rock	3:1 Aqua Regia	TRA	Portage	SM20-001	254	255	WSP (2021)	1.8	10500	74	0.18	<10	56	0.54	1.1	900	0.31	96	16	54	96	56	31400	5.2	0.14	
W-021	Ore-Grade Materials	3:1 Aqua Regia	VBX	Portage	PM-DH-03	97	98	WSP (2021)	6.5	10700	29	1.1	11	66	0.86	0.34	500	0.33	67	21	49	67	109	33500	4.2	0.14	
W-022	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SM20-001	311	312	WSP (2021)	0.67	20400	36	0.47	13	85	0.94	0.080	3800	0.020	47	42	44	47	91	65500	5.7	0.11	
W-023	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	PM-DH-03	150	151	WSP (2021)	1.1	31100	23	0.68	12	379	1.7	0.10	6000	0.14	33	29	72	33	128	49300	8.6	0.22	
W-024	Mine Rock	3:1 Aqua Regia	VBX	Portage	SM20-002	100	101	WSP (2021)	0.17	6800	28	0.017	<10	175	0.63	0.25	44400	0.060	113	5.8	24	113	13	17100	3.3	0.17	
W-025	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	PM-DH-03	200	201	WSP (2021)	6.7	34100	15	1.5	<10	175	2.2	0.35	5300	0.12	92	31	82	92	200	56100	11	0.28	
W-026	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SM20-002	388	389	WSP (2021)	4.3	23600	8.7	1.4	<10	133	0.89	0.060	3700	0.10	51	30	65	51	85	35900	7.3	0.23	
W-027	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	SM20-001	348	349	WSP (2021)	0.17	60400	27	0.053	<10	87	1.8	0.090	2600	0.020	13	26	55	13	12	57500	18	0.33	
W-028	Ore-Grade Materials	3:1 Aqua Regia	VBX	Portage	SM20-002	301	302	WSP (2021)	2.3	7600	18	1.0	<10	255	1.4	0.69	800	0.030	108	0.80	30	108	63	13900	3.9	0.21	
W-029	Mine Rock	3:1 Aqua Regia	TRA	Portage	SM20-001	100	101	WSP (2021)	1.6	13600	56	0.19	11	139	1.0	0.89	3800	0.75	461	16	27	461	17	24400	7.1	0.32	
W-030	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SM20-002	263	264	WSP (2021)	5.0	9900	51	0.76	<10	89	0.57	0.28	600	0.38	64	13	38	64	75	26300	5.2	0.19	
W-031	Mine Rock	3:1 Aqua Regia	VBX	Portage	SM20-001	50	51	WSP (2021)	2.6	20100	109	0.32	14	147	2.5	0.60	18600	7.7	>500	17	26	>500	29	26700	2.7	1.5	
W-032	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP11-088	9	10	WSP (2021)	0.97	7000	146	0.45	<10	45	0.36	0.060	34200	0.33	40	28	42	40	56	49400	2.5	0.11	
W-033	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	SGH20-001	108	109	WSP (2021)	0.11	33300	7.0	0.0043	<10	71	>0.050	<0.010	26500	0.17	5.6	34	171	5.6	73	49900	7.9	0.14	
W-034	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	SP11-088	97	98	WSP (2021)	0.10	3200	14	0.011	<10	31	0.30	0.030	43900	0.080	42	23	27	42	66	51800	1.4	0.080	
W-035	Mine Rock	3:1 Aqua Regia	TRA	Portage	SM20-001	200	201	WSP (2021)	2.4	2600	34	0.24	<10	184	0.19	0.21	700	0.080	60	4.1	24	60	16	11300	1.1	0.080	
W-036	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP11-088	344	346	WSP (2021)	4.6	3700	13	0.25	<10	90	0.39	2.4	2200	2.9	415	6.6	45	415	105	15200	3.3	0.20	
W-037	Mine Rock	3:1 Aqua Regia	VBX	Portage	SM20-002	50	51	WSP (2021)	0.18	3900	45	0.015	<10	370	0.35	0.64	38200	0.21	151	3.4	23	151	18	9200	2.1	0.12	
W-038	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP11-088	249	250	WSP (2021)	1.9	5600	62	0.12	10	82	0.42	0.47	41200	1.6	32	13	28	32	70	29700	2.5	0.080	
W-039	Mine Rock	3:1 Aqua Regia	TRA	Portage	SM20-002	150	151	WSP (2021)	0.020	6100	13	0.0028	<10	969	0.32	0.030	33700	0.080	74	21	18	74	35	31900	3.1	0.10	
W-040	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SM20-003	401	402	WSP (2021)	3.1	22000	21	0.64	13	33	1.6	1.4	2600	0.77	137	29	63	137	373	57400	7.2	0.26	
W-041	Mine Rock	3:1 Aqua Regia	TRA	Portage	SM20-002	13	14	WSP (2021)	0.030	17400	28	0.0063	<10	101	0.45	0.030	33800	0.10	58	29	94	58	68	56200	6.3	0.060	
W-042	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Camp	SP12-136	24	26	WSP (2021)	0.12	28000	25	0.0032	<10	15	0.22	0.010	50400	0.070	17	47	104	17	74	82100	8.9	0.090	
W-043	Mine Rock	3:1 Aqua Regia	VBX	Portage	SM20-002	199	200	WSP (2021)	1.3	10300	11.7	0.18	<10	98	1.9	3.1	4400	0.85	>500	13	22	>500	23	28900	7.3	0.45	
W-044	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	SP12-151	59.5	61.5	WSP (2021)	0.27	34000	2.9	0.0084	<10	25	0.40	<0.010	6500	0.16	26	40	121	26	101	71500	8.1	<0.050	
W-045	Ore-Grade Materials	3:1 Aqua Regia	VBX	Portage	SM20-002	355	356	WSP (2021)	4.9	12200	14	0.73	<10	139	1.1	0.94	1100	0.41	159	5.3	55	159	25	16600	7.5	0.28	
W-046	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	SP12-151	98.5	100.5	WSP (2021)	0.41	23400	3.7	0.062	<10	12	0.73	0.020	4100	0.14	21	26	98	21	66	53500	7.1	0.080	
W-047	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	SP11-088	150	151	WSP (2021)	0.28	5200	12	0.024	<10	49	0.36	0.040	47300	0.10	39	22	33	39	65	45500	2.0	0.070	
W-048	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP12-151	147	149	WSP (2021)	3.5	16400	15	0.59	16	82	1.6	0.14	2500	2.6	86	22	65	86	126	58100	9.1	0.20	
W-049	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	SP11-088	51	52	WSP (2021)	0.14	3500	22	0.013	<10	13	0.29	0.040	53000	0.050	36	28	20	36	91	43700	1.1	0.080	
W-050	Mine Rock	3:1 Aqua Regia	TRA	Camp	SP12-135	99	101	WSP (2021)	0.070	19000	49	0.0020															

Table B-6. Elemental Content Results

Sample ID	Classification	Digest Method ^(A)	Final Lithology Group	Zone	Drillhole	From	To	Data Source	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Ce	Cu	Fe	Ga	Ge
									mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
									0.75	--	18	4E-06	10	4250	30	0.085	--	1.5	--	250	1020	--	600	--	190	15
W-082	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP12-120	51	52	WSP (2021)	0.15	3500	7.7	0.021	<10	47	0.31	0.13	48600	0.11	42	26	26	42	65	49400	1.3	0.090
W-084	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP12-120	150	152	WSP (2021)	1.0	9700	15	0.36	<10	63	0.37	0.050	42300	0.12	41	27	53	41	59	63800	4.2	0.10
W-086	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP12-120	243	245	WSP (2021)	4.3	13700	9.2	0.36	<10	73	0.91	0.74	23100	0.26	64	31	53	64	121	61500	6.6	0.17
W-088	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-113	400	401	WSP (2021)	2.4	20600	36	0.30	<10	117	1.2	0.26	4100	0.30	68	36	86	68	112	58200	7.0	0.14
W-090	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-113	447	448	WSP (2021)	0.59	22500	12	0.032	<10	139	0.92	0.080	5300	0.15	45	38	75	45	79	66800	6.6	0.17
W-091	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP12-129	189	191.1	WSP (2021)	0.32	30100	144	0.10	<10	71	0.29	0.020	52900	0.070	78	58	153	78	365	59200	8.1	0.15
W-092	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP11-107	198	199	WSP (2021)	0.12	16500	0.45	0.11	<10	64	0.84	0.030	52200	0.080	20	47	209	20	119	62000	6.7	0.13
W-094	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP11-107	7	8	WSP (2021)	0.040	30000	4.9	0.0011	<10	29	0.51	<0.010	57500	0.080	27	34	40	27	85	63400	12	0.11
W-096	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP11-107	301	302	WSP (2021)	0.54	13700	5.3	0.073	<10	93	0.39	0.070	51300	0.21	34	44	71	34	113	74900	4.0	0.080
W-098	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP11-107	339	340	WSP (2021)	0.48	7600	53	0.16	<10	65	0.33	0.040	43500	0.13	39	31	41	39	33	55200	2.6	0.090
W-100	Mine Rock	3:1 Aqua Regia	POR	Portage	SP11-109	20	21	WSP (2021)	0.20	4000	27	0.14	<10	135	0.49	0.45	47700	0.36	67	6.2	12	67	20	9200	15	0.090
W-102	Mine Rock	3:1 Aqua Regia	POR	Portage	SP11-109	38	39	WSP (2021)	0.040	6100	13	0.0030	<10	268	0.92	0.090	40800	0.040	82	4.5	19	82	16	10900	2.3	0.10
W-103	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-123	477	479	WSP (2021)	1.4	17100	16	0.20	<10	114	1.3	0.10	5900	0.21	47	46	77	47	96	60900	5.4	0.11
W-105	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-123	501	503	WSP (2021)	0.48	9200	11	0.048	<10	46	0.68	0.050	2900	0.14	44	36	91	44	67	70100	4.3	0.10
W-107	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP12-123	351	353	WSP (2021)	1.4	10200	44	0.34	<10	73	0.56	0.43	3400	0.35	89	17	36	89	57	27300	3.8	0.12
W-109	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP12-123	393	394	WSP (2021)	2.0	10500	37	0.27	<10	47	0.94	0.84	1500	1.1	351	18	48	351	46	33300	5.4	0.28
W-111	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-123	519	521	WSP (2021)	0.54	19800	6.0	0.038	<10	146	0.70	<0.010	6500	0.16	43	30	106	43	87	59400	7.8	0.15
W-112	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP13-221	73	75	WSP (2021)	0.080	7000	3.0	0.013	<10	35	0.41	<0.010	34800	0.080	32	24	51	32	36	55300	3.1	0.090
W-113	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP12-113	7	8	WSP (2021)	0.10	6800	152	0.0032	<10	64	0.45	0.020	37300	0.060	53	19	24	53	49	46600	2.4	0.11
W-115	Mine Rock	3:1 Aqua Regia	POR	Portage	SP12-120	207	209	WSP (2021)	1.6	6700	11	0.12	<10	179	0.61	0.46	36400	0.16	73	18	39	73	51	32900	3.5	0.12
W-117	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP12-120	105	107	WSP (2021)	0.50	21300	9.8	0.055	<10	18	0.45	0.020	42400	0.18	34	28	62	34	67	59000	8.4	0.070
W-119	Mine Rock	3:1 Aqua Regia	POR	Portage	SP12-113	51	52	WSP (2021)	0.12	4100	28	0.0068	<10	139	0.63	0.50	39100	0.13	70	5.6	23	70	17	11600	2.0	0.10
W-121	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-113	103	104	WSP (2021)	0.45	9800	97	0.059	<10	88	0.46	0.26	59300	0.13	116	30	33	116	69	55200	3.2	0.10
W-123	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP12-113	201	202	WSP (2021)	1.1	12500	612	0.10	<10	139	0.66	0.30	48600	1.1	43	29	44	43	1259	48400	4.3	0.11
W-124	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SG13-202	49	51	WSP (2021)	0.10	30000	3.6	0.0042	<10	33	0.37	0.010	2700	0.040	32	73	101	32	72	59700	10	0.080
W-125	Mine Rock	3:1 Aqua Regia	POR	Portage	SP12-113	300	301	WSP (2021)	0.65	10600	70	0.13	<10	59	0.73	0.56	500	0.94	214	21	35	214	43	32900	4.3	0.17
W-126	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SG13-202	94	96	WSP (2021)	0.20	15200	6.3	0.0053	<10	33	0.52	<0.010	28000	0.10	43	33	70	43	69	55500	4.8	0.080
W-127	Mine Rock	3:1 Aqua Regia	POR	Portage	SP12-113	250	251	WSP (2021)	2.3	11400	50	0.31	<10	66	0.89	0.26	500	0.51	124	16	42	124	39	28200	4.9	0.13
W-128	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SG13-200	98	100	WSP (2021)	0.27	34300	8.5	0.012	<10	40	0.17	<0.010	29500	0.060	8.4	38	172	8.4	93	63600	8.7	0.12
W-129	Mine Rock	3:1 Aqua Regia	LAM	Portage	SP12-113	340	341	WSP (2021)	0.40	49900	82	0.024	<10	120	2.3	0.050	1700	0.050	17	80	935	17	107	147100	16	0.47
W-130	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SG13-200	50	52	WSP (2021)	0.31	29700	10	0.0064	<10	19	0.26	0.010	4200	0.10	20	42	142	20	108	81100	11	0.11
W-131	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP11-107	103	104	WSP (2021)	0.080	25700	6.0	0.0044	<10	29	0.81	0.030	45800	0.090	160	29	226	160	41	49700	7.3	0.11
W-132	Over-Grade Materials	3:1 Aqua Regia	VBX	Portage	SG13-201	185	186	WSP (2021)	3.5	15700	18	0.44	<10	68	1.3	0.52	4900	5.2	47	37	67	47	137	77900	7.7	0.20
W-133	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP11-107	46	47	WSP (2021)	0.050	16400	37	0.014	<10	12	0.56	0.010	50000	0.070	18	33	94	18	58	58600	4.3	0.080
W-134	Mine Rock	3:1 Aqua Regia	VBX	Portage	SG13-200	182	184	WSP (2021)	1.9	20000	15	0.25	<10	254	1.0	0.13	2900	1.1	57	33	81	57	109	60900	8.2	0.16
W-135	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP11-107	150	151	WSP (2021)	0.34	15900	111	0.066	<10	61	0.37	0.26	32400	0.060	94	33	84	94	68	53700	6.0	0.13
W-137	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP11-107	249	250	WSP (2021)	2.0	22800	103	0.46	<10	38	0.38	0.060	20100	0.34	134	33	45	134	60	85800	7.2	0.19
W-139	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP12-113	150	151	WSP (2021)	3.0	3500	40	0.16	<10	49	0.30	0.62	27500	8.4	54	28	39	54	55	75700	2.5	0.11
W-141	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP11-109	5	6	WSP (2021)	0.13	5100	30	0.10	<10	124	0.45	0.29	35200	0.040	87	13	25	87	37	25500	7.2	0.11
W-150	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP13-219	96	98	WSP (2021)	1.5	22000	23	0.17	<10	157	1.1	0.040	3800	0.25	48	44	36	48	148	102200	13	0.31
W-151	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP13-221	127	129	WSP (2021)	0.66	15100	5.3	0.19	<10	149	1.4	0.020	18000	0.060	21	35	72	21	73	64200	3.9	0.070
W-162	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	PM-DH-04	296	297	WSP (2021)	1.0	6700	88	0.098	<10	70	0.54	0.040	8400	0.11	9.5	62	72	9.5	119	96900	2.3	0.070
W-163	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SG13-201	51	53	WSP (2021)	2.0	15600	17	0.40	<10	49	0.82	0.030	4900	0.19	27	39	78	27	85	63100	5.6	0.080
W-164	Over-Grade Materials	3:1 Aqua Regia	VBX	Portage	PM-DH-04	249	250	WSP (2021)	4.9	8200	100	1.5	<10	38	0.47	0.030	28200	0.38	95	22	61	95	42	59300	4.2	0.20
W-165	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SG13-202	151	153	WSP (2021)	1.0	14700	10	0.33	<10	63	0.56	0.050	21300	0.46	52	30	67	52	62	56800	4.7	0.090
W-166	Over-Grade Materials	3:1 Aqua Regia	And. tuf. metaseds	Portage	PM-DH-04	200	201	WSP (2021)	2.4	28000	359	0.9	<10	34	1.2	0.10	4700	0.13	35	52	119	35	136	79800	8.1	0.21
W-167	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SG13-202	199	201	WSP (2021)	0.26	29900	7.9	0.20	<10	56	0.31	0.030	15800	0.14	31	29	117	31	9.4	52900	7.8	0.12
W-168	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	PM-DH-04	55	56	WSP (2021)	0.15	29800	40	0.032	<10	13	0.23	<0.010	44700	0.070	16	34	210	16	41	62200	8.7	0.0

Table B-6. Elemental Content Results

Sample ID	Classification	Digest Method ^(A)	Final Lithology Group	Zone	Drillhole	From	To	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Ce	Cu	Fe	Ga	Ge		
Units						m	m	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		
10x Crustal Abundance (Price 1997)																											
W-219	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SG13-206	100	102	WSP (2021)	0.75	--	18	4E-06	10	4250	30	0.085	--	1.5	--	250	1020	--	600	--	190	15	
W-220	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Camp	SP11-030	12	13	WSP (2021)	0.15	8500	161	0.037	<10	31	0.28	0.040	42400	0.060	25	30	38	25	22	81000	3.5	0.10	
W-221	Mine Rock	3:1 Aqua Regia	POR	Portage	SG13-205	97	99	WSP (2021)	1.5	7100	24	0.090	<10	203	0.36	0.31	23700	3.3	37	4.1	34	37	20	15500	2.5	0.060	
W-222	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Camp	SP11-030	150	151	WSP (2021)	0.11	33800	6.1	0.0040	<10	36	0.15	<0.010	44700	0.090	24	34	151	24	49	54000	11	0.070	
W-223	Mine Rock	3:1 Aqua Regia	POR	Portage	SG13-205	201	203	WSP (2021)	0.59	4400	17	0.048	<10	347	0.35	0.41	28700	0.40	42	4.2	31	42	15	9700	1.7	0.050	
W-224	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Camp	SP11-030	100	101	WSP (2021)	0.22	28500	15	0.030	<10	101	0.34	<0.010	69000	0.10	15	38	144	15	137	54500	7.7	0.070	
W-225	Ore-Grade Materials	3:1 Aqua Regia	VBX	Portage	SG13-205	28	30	WSP (2021)	3.0	10500	30	1.1	<10	150	0.59	0.55	21400	0.67	39	24	51	39	59	49200	4.1	0.090	
W-226	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP11-050	150	151	WSP (2021)	1.5	12700	6.6	0.48	<10	81	0.74	0.12	3100	0.11	43	33	54	43	38	63100	6.2	0.13	
W-227	Mine Rock	3:1 Aqua Regia	POR	Portage	SG13-204	52	54	WSP (2021)	0.21	4800	19	0.0063	<10	254	0.32	0.58	2300	0.090	79	5.3	28	79	29	3300	1.5	0.10	
W-228	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP11-050	201	202	WSP (2021)	2.1	9000	12	0.38	<10	77	0.89	0.69	7900	0.52	69	19	45	69	76	36900	4.9	0.16	
W-229	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SG13-203	151	153	WSP (2021)	0.10	8900	16	0.0061	<10	42	0.31	0.050	46400	0.040	50	30	26	50	91	53700	4.6	0.080	
W-230	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP11-050	100	101	WSP (2021)	0.14	10500	3.1	0.063	<10	14	0.27	0.010	41800	0.080	21	18	57	21	27	45900	4.7	0.060	
W-231	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-180	198	200	WSP (2021)	0.51	34800	5.4	0.033	<10	190	0.46	0.020	7500	0.18	15	26	130	15	94	67300	13	0.22	
W-232	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP11-050	9	10	WSP (2021)	0.46	18400	25	0.068	<10	20	0.45	0.10	34800	0.080	42	28	62	42	133	56100	8.7	0.10	
W-233	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-180	56.5	57.9	WSP (2021)	0.39	25600	4.8	0.068	<10	57	0.67	0.020	4300	0.29	28	29	134	28	68	63900	9.1	0.12	
W-234	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP11-050	51	52	WSP (2021)	0.16	23000	4.7	0.022	<10	18	0.60	0.040	59400	0.18	29	31	188	29	127	68500	10	0.12	
W-235	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP12-174	102	104	WSP (2021)	0.11	31800	4.1	0.0090	<10	25	0.31	0.030	26500	0.030	26	34	158	26	66	63800	12	0.080	
W-236	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP12-180	102	104	WSP (2021)	1.7	28500	3.2	0.38	<10	18	0.35	0.020	24500	0.46	26	26	149	26	42	52700	9.8	0.080	
W-237	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP12-174	54	56	WSP (2021)	0.16	22600	4.8	0.0064	<10	33	0.25	0.040	49100	0.060	26	28	70	26	69	51600	8.3	0.070	
W-238	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP12-180	150	152	WSP (2021)	1.9	33200	7.5	0.32	<10	92	0.62	0.090	36200	2.8	32	40	201	32	66	63300	9.8	0.16	
W-239	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP12-174	150	152	WSP (2021)	0.23	31800	4.6	0.013	<10	98	0.37	0.050	32800	0.13	41	33	107	41	137	62300	11	0.12	
W-240	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-185	99	101	WSP (2021)	0.20	3300	5.3	0.20	<10	33	0.26	0.090	39400	0.080	37	22	38	37	75	50400	1.9	0.070	
W-241	Mine Rock	3:1 Aqua Regia	TRA	East Extension	SP11-067	79	80	WSP (2021)	<0.010	14700	10	0.0030	18	128	0.61	0.010	35900	0.10	64	26	52	64	17	52000	4.7	0.12	
W-243	Mine Rock	3:1 Aqua Regia	TRA	East Extension	SP11-067	59	60	WSP (2021)	<0.010	20300	19	0.0021	19	95	0.81	<0.010	29200	0.060	61	28	70	61	35	53100	7.1	0.15	
W-245	Mine Rock	3:1 Aqua Regia	TRA	East Extension	SP11-067	70	71	WSP (2021)	0.010	19900	10	0.0021	19	142	0.66	0.010	30200	0.090	61	27	56	61	17	50000	5.9	0.16	
W-247	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP11-055	22	23	WSP (2021)	1.5	16300	42	0.26	25	159	0.82	0.31	26500	0.85	34	34	72	34	88	60700	6.0	0.15	
W-249	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP11-064	199	200	WSP (2021)	0.050	23800	3.3	0.0075	<10	21	0.16	0.010	56300	0.090	28	30	112	28	71	49300	6.9	0.10	
W-251	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP11-064	298	299	WSP (2021)	0.070	25500	5.6	0.011	<10	23	0.29	0.020	33100	0.020	34	30	103	34	64	57600	8.7	0.090	
W-253	Ore-Grade Materials	3:1 Aqua Regia	And. tuf. metaseds	Camp	SP11-030	50	51	WSP (2021)	1.6	10500	442	1.6	17	37	0.62	0.26	43500	0.13	55	30	45	55	95	63600	3.2	0.11	
W-254	Mine Rock	3:1 Aqua Regia	TRA	Portage	SGH20-009	145	146	WSP (2021)	0.22	25800	3.5	0.041	<10	31	0.30	0.12	23300	0.11	24	28	120	24	106	52200	7.8	0.080	
W-256	Mine Rock	3:1 Aqua Regia	TRA	Portage	SGH20-007	17	18	WSP (2021)	0.070	5900	8.1	0.0056	<10	172	0.58	0.29	32400	0.070	80	5.2	23	80	17	7300	1.8	0.10	
W-261	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP11-064	4	5	WSP (2021)	0.020	24900	3.0	0.0013	<10	22	0.21	<0.010	41000	0.080	30	27	117	30	61	52600	7.5	0.070	
W-262	Mine Rock	3:1 Aqua Regia	POR	Portage	SM20-003	107	108	WSP (2021)	0.76	9300	55	0.030	16	68	0.96	1.8	63900	0.23	235	12	29	235	30	28000	3.9	0.16	
W-263	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP12-174	204	206	WSP (2021)	0.63	25100	7.5	0.017	<10	81	0.22	0.060	27100	0.34	44	33	80	44	84	64100	11	0.11	
W-264	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SGH20-009	74	75	WSP (2021)	0.11	27500	3.1	0.0037	14	40	0.22	0.050	46100	0.040	32	26	68	32	26	49900	11	0.070	
W-265	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP12-185	147	149	WSP (2021)	0.080	6100	14	0.028	<10	24	0.23	0.080	47100	0.080	35	24	37	35	66	52300	2.3	0.070	
W-266	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SM20-003	298	299	WSP (2021)	5.3	29800	16	1.1	27	55	2.8	0.090	4800	0.21	52	48	135	52	237	96100	10	0.23	
W-267	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-185	51	53	WSP (2021)	0.11	4400	8.2	0.031	<10	40	0.26	0.040	32600	0.030	33	25	38	33	73	49300	1.6	0.090	
W-268	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SM20-003	356	357	WSP (2021)	2.1	18300	44	0.71	16	16	1.0	0.25	2500	0.68	102	33	75	102	66	72900	7.8	0.21	
W-269	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SG13-206	175	177	WSP (2021)	0.24	3900	50	0.060	<10	35	0.38	0.010	47800	0.11	9.8	42	39	9.8	117	68500	1.1	0.080	
W-270	Ore-Grade Materials	3:1 Aqua Regia	POR	Portage	SM20-003	254	255	WSP (2021)	1.8	12800	32	0.60	17	33	0.88	0.92	2300	0.22	>500	50	81	>500	185	55800	7.5	0.34	
W-271	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-185	9	11	WSP (2021)	0.14	6000	8.2	0.024	13	88	0.28	0.060	29600	0.22	32	23	50	32	81	50700	3.6	0.090	
W-272	Mine Rock	3:1 Aqua Regia	TRA	Portage	SGH20-006	304	305	WSP (2021)	6.0	6600	16	1															

Table B-6. Elemental Content Results

Sample ID		Classification	Digest Method ^(A)	Final Lithology Group	Zone	Drillhole	From	To	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Ce	Cu	Fe	Ga	Ge
Units							m	m	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
10x Crustal Abundance (Price 1997)									0.75	--	18	4E-06	10	4250	30	0.085	--	1.5	--	250	1020	--	600	--	190	15
M112041	Mine Rock	3:1 Aqua Regia	TRA	East Extension	SM21-001	34	35	WSP (2021)	0.11	3200	27	0.092	10	95	0.70	0.44	36900	0.15	70	5.3	37	0.79	17	12600	1.6	0.10
M112065	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	East Extension	SM21-001	71	72	WSP (2021)	0.18	30400	958	0.038	14	105	1.7	0.020	69900	0.17	5.3	78	351	65	38	87900	6.8	0.13
M112057	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	East Extension	SM21-001	65	66	WSP (2021)	0.12	20000	25	0.0015	10	216	0.77	0.040	38500	0.070	53	25	66	66	82	53900	7.2	0.12
M112051	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	East Extension	SM21-001	59.53	61	WSP (2021)	0.070	18200	28	0.040	17	96	0.79	0.020	38800	0.060	57	27	62	66	85	54400	6.7	0.13
M112088	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	East Extension	SM21-001	74	75	WSP (2021)	0.18	35300	1085	0.020	13	128	2.1	0.020	53300	0.090	70	93	617	56	39	95200	8.5	0.25
M112074	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	East Extension	SM21-001	79	80	WSP (2021)	0.10	36500	1041	0.020	10	42	0.68	0.010	64100	0.060	6.8	82	530	22	31	85000	8.4	0.28
M112078	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	East Extension	SM21-001	83	84.2	WSP (2021)	0.20	33900	532	0.041	11	245	0.84	0.040	40400	0.10	8.7	55	178	71	69	85700	8.7	0.11
M112086	Mine Rock	3:1 Aqua Regia	TRA	East Extension	SM21-001	89	90	WSP (2021)	0.23	5400	46	0.018	11	200	0.40	0.30	29000	0.090	55	8.9	24	5.3	22	22500	2.2	0.10
M112089	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	East Extension	SM21-002	4	5.4	WSP (2021)	0.10	11300	63	0.00060	11	115	0.67	0.060	30600	0.080	59	14	26	7.9	20	43500	3.3	0.11
M112092	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	East Extension	SM21-002	9	10	WSP (2021)	0.13	7000	127	0.021	10	51	0.43	0.080	26100	0.10	32	28	37	5.6	50	50900	2.9	0.080
M112105	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	East Extension	SM21-002	21	22	WSP (2021)	0.12	20900	1254	0.011	17	86	0.66	0.040	27600	0.040	47	23	32	21	47	62800	6.3	0.13
M112103	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	East Extension	SM21-002	19	20	WSP (2021)	0.060	16600	716	0.064	10	90	0.66	0.040	28300	0.090	55	20	27	17	41	53300	5.7	0.060
M112108	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	East Extension	SM21-002	23	24	WSP (2021)	0.090	14200	639	0.016	10	82	0.50	0.070	25300	0.10	43	19	28	15	41	45400	4.7	<0.050
M112119	Mine Rock	3:1 Aqua Regia	TRA	East Extension	SM21-002	31	32	WSP (2021)	0.15	4300	35	0.050	10	112	0.54	0.48	46200	0.27	57	6.2	19	2.2	17	15800	1.9	0.050
M112122	Mine Rock	3:1 Aqua Regia	TRA	East Extension	SM21-002	34	35	WSP (2021)	0.43	4500	44	0.14	10	70	0.53	0.43	40100	0.69	58	5.0	25	3.1	23	11700	2.0	0.050
M112128	Mine Rock	3:1 Aqua Regia	TRA	East Extension	SM21-002	39	40	WSP (2021)	0.12	5800	31	0.066	10	110	0.67	0.50	51500	0.11	65	3.8	21	6.4	15	11000	2.6	0.060
M112133	Mine Rock	3:1 Aqua Regia	TRA	East Extension	SM21-002	44	45	WSP (2021)	0.18	4700	32	0.100	10	108	0.51	0.34	52900	0.21	58	5.7	26	2.1	19	14100	2.0	<0.050
M112139	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	East Extension	SM21-002	49	50	WSP (2021)	0.040	25500	11	0.047	10	293	0.85	<0.010	30300	0.13	57	28	73	49	8.8	56800	9.6	0.070
M112149	Mine Rock	3:1 Aqua Regia	TRA	East Extension	SM21-002	61	62	WSP (2021)	0.33	6000	31	0.082	10	100	0.59	0.34	26700	0.12	77	5.1	23	4.0	20	14800	2.5	0.060
M112153	Mine Rock	3:1 Aqua Regia	TRA	East Extension	SM21-002	65	66	WSP (2021)	0.59	4500	51	0.21	10	138	0.40	0.44	20600	0.14	50	5.2	30	2.5	19	15200	2.0	<0.050
M112158	Mine Rock	3:1 Aqua Regia	TRA	East Extension	SM21-002	69	70	WSP (2021)	0.28	4300	33	0.026	10	96	0.45	0.30	28200	0.10	69	5.0	27	3.6	17	15600	2.1	0.060
M112163	Mine Rock	3:1 Aqua Regia	TRA	East Extension	SM21-002	74	75	WSP (2021)	0.45	4600	66	0.11	10	123	0.49	0.41	22300	0.060	58	5.0	23	4.2	22	14000	2.1	0.050
ABA-071	Mine Rock	4-Acid	And tuf. metaseds	East Extension	BL-0013	24.4	3.66	MDAG (2012)	0.050	74600	3.5	--	--	480	1.1	0.030	36400	0.080	69	25	96	80	41	58900	18	0.22
ABA-072	Mine Rock	4-Acid	And tuf. metaseds	East Extension	BL-0013	60.96	62.18	MDAG (2012)	0.080	71200	24	--	--	640	1.3	0.030	41600	0.11	66	30	123	87	89	60200	18	0.21
ABA-070	Mine Rock	4-Acid	POR	East Extension	BL-0013	120.4	121.62	MDAG (2012)	0.22	68900	72	--	--	2040	2.4	0.34	51000	0.17	39	6.9	20	9.2	19	20000	15	0.18
ABA-078	Mine Rock	4-Acid	And tuf. metaseds	East Extension	BL-0014	2.74	4.27	MDAG (2012)	0.31	67600	44	--	--	730	1.6	0.14	51900	2.3	79	21	47	23	56	54100	18	0.24
ABA-079	Mine Rock	4-Acid	VBX	East Extension	BL-0014	50.9	52.43	MDAG (2012)	2.2	80200	172	--	--	400	3.1	0.050	24700	2.3	32	30	77	15	60	48000	22	0.21
ABA-080	Mine Rock	4-Acid	VBX	East Extension	BL-0014	98.76	100.28	MDAG (2012)	0.59	64500	351	--	--	800	1.6	0.050	53300	0.24	70	24	20	24	49	66000	20	0.25
ABA-017	Mine Rock	4-Acid	POR	East Extension	BL-0054	50.29	51.82	MDAG (2012)	0.48	73200	43	--	--	3040	4.1	0.52	33900	0.78	335	7.9	19	8.3	19	20000	19	0.25
ABA-015	Mine Rock	4-Acid	And tuf. metaseds	East Extension	BL-0054	99.67	101.35	MDAG (2012)	0.090	81000	232	--	--	340	1.4	0.040	45900	0.090	12	55	168	19	50	75100	15	0.15
ABA-021	Mine Rock	4-Acid	And tuf. metaseds	East Extension	BL-0054	157.95	159.41	MDAG (2012)	0.19	76100	93	--	--	240	2.2	0.070	70700	0.59	21	50	146	18	98	74000	15	0.14
ABA-019	Mine Rock	4-Acid	And tuf. metaseds	East Extension	BL-0054	216.26	217.11	MDAG (2012)	0.27	67500	89	--	--	160	2.2	0.11	49400	0.50	44	42	66	30	59	80700	17	0.16
ABA-056	Mine Rock	4-Acid	And tuf. metaseds	East Extension	BL-0114	50.29	51.82	MDAG (2012)	0.37	66200	70	--	--	480	2.5	0.13	28500	0.18	64	30	32	44	61	77100	15	0.19
ABA-054	Mine Rock	4-Acid	POR	East Extension	BL-0114	158.5	160.02	MDAG (2012)	0.36	71600	69	--	--	2560	3.7	0.41	34800	0.23	65	5.5	6.0	12	34	17500	19	0.24
ABA-055	Mine Rock	4-Acid	POR	East Extension	BL-0114	217.93	218.85	MDAG (2012)	1.1	83300	30	--	--	2680	2.5	0.21	23700	1.9	138	3.3	3.0	6.9	19	14000	19	0.21
ABA-036	Mine Rock	4-Acid	VBX	East Extension	BL-0162	49.68	51.21	MDAG (2012)	0.58	70200	79	--	--	2140	2.8	0.39	51300	0.30	107	13	46	23	32	30800	15	0.21
ABA-033	Mine Rock	4-Acid	And tuf. metaseds	East Extension	BL-0223	2.59	3.66	MDAG (2012)	0.80	68400	187	--	--	860	1.4	0.11	61800	0.70	53	17	9.0	7.3	37	49400	17	0.16
ABA-043	One-Grade Materials	4-Acid	And tuf. metaseds	East Extension	BL-0223	49.38	50.9	MDAG (2012)	0.14	67200	41	--	--	540	2.3	0.090	42800	0.10	58	28	118	74	69	60500	17	0.17
ABA-037	One-Grade Materials	4-Acid	VBX	East Extension	BL-0223	99.06	100.58	MDAG (2012)	0.46	72300	113	--	--	1690	2.4	0.31	50300	0.36	51	13	41	11	25	33600	18	0.17
ABA-042	Mine Rock	4-Acid	And tuf. metaseds	East Extension	BL-0223	157.58	160.58	MDAG (2012)	0.13	73600	449	--	--	330	2.1	0.070	34300	0.12	46	21	15	15	43	59000	19	0.15
ABA-044	Mine Rock	4-Acid	POR	East Extension	BL-0223	218.85	220.37	MDAG (2012)	0.31	77900	62	--	--	2820	1.9	0.55	32900	0.30	31	4.4	8.0	9.1	16	15900	16	0.17
ABA-034	Mine Rock	4-Acid	POR	East Extension	BL-0223	277.67	279.2	MDAG (2012)	0.070	67400	9.6	--	--	2560	3.1	0.35	34000	0.080	26	3.6	6.0	13	14	13000	20	0.19
ABA-035	Mine Rock	4-Acid	And tuf. metaseds	East Extension	BL-0223	343.2	344.06	MDAG (2012)	0.31	72400	264	--	--	440	1.6	0.050	53300	0.12								

Table B-6. Elemental Content Results

Sample ID		Classification	Digest Method ^(A)	Final Lithology Group	Zone	Drillhole	From	To	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Ce	Cu	Fe	Ga	Ge	
Units							m	m	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
10x Crustal Abundance (Price 1997)																											
ABA-076		Mine Rock	4-Acid	And tuf metaseds	Camp	BL-0288	59.47	60.2	MDAG (2012)	0.32	64000	47	--	--	530	1.2	0.010	68100	0.070	24	33	129	24	72	70200	16	0.21
ABA-077		Ore-Grade Materials	4-Acid	And tuf metaseds	Camp	BL-0288	101.5	102.5	MDAG (2012)	0.15	67800	31	--	--	420	0.88	0.020	69700	0.070	37	43	57	8.2	44	77600	18	0.22
ABA-074		Ore-Grade Materials	4-Acid	POR	Portage	BL-0289	2.93	3.08	MDAG (2012)	2.1	50500	391	--	--	410	1.2	0.050	57100	0.53	36	30	5.0	11	63	76000	16	0.24
ABA-075		Mine Rock	4-Acid	POR	Portage	BL-0289	23.87	24.08	MDAG (2012)	0.35	65100	123	--	--	300	1.3	0.030	36500	0.090	39	33	2.0	17	17	7500	21	0.34
ABA-073		Ore-Grade Materials	4-Acid	POR	Portage	BL-0289	47.12	47.27	MDAG (2012)	0.13	63900	103	--	--	650	1.7	0.010	39500	0.19	47	40	2.0	32	14	67800	24	0.24
ABA-081		Mine Rock	4-Acid	And tuf metaseds	Camp	BL-0302	2.59	2.77	MDAG (2012)	0.62	62500	161	--	--	250	1.8	0.070	63300	0.19	36	31	13	30	89	92100	18	0.22
ABA-082		Mine Rock	4-Acid	And tuf metaseds	Camp	BL-0302	23.78	24.7	MDAG (2012)	0.34	67000	121	--	--	1230	2.3	0.030	32600	0.080	37	31	15	31	78	104000	21	0.26
ABA-083		Mine Rock	4-Acid	And tuf metaseds	Camp	BL-0302	46.63	47.55	MDAG (2012)	0.050	77000	37	--	--	140	1.2	0.010	51800	0.050	28	32	96	25	34	66200	19	0.20
ABA-059		Mine Rock	4-Acid	And tuf metaseds	Camp	BL-0307	1.22	2.41	MDAG (2012)	0.11	80200	20	--	--	310	0.69	0.030	45400	0.060	22	35	132	13	60	62400	18	0.12
ABA-060		Mine Rock	4-Acid	And tuf metaseds	Camp	BL-0307	41.45	42.15	MDAG (2012)	0.47	65700	53	--	--	1540	1.9	0.050	55900	0.080	53	22	32	14	37	42500	16	0.16
ABA-061		Mine Rock	4-Acid	And tuf metaseds	Camp	BL-0307	79.8	80.1	MDAG (2012)	0.33	67700	19	--	--	250	0.66	0.060	52300	0.070	33	32	70	8.1	79	70800	19	0.13
ABA-028		Mine Rock	4-Acid	And tuf metaseds	Camp	BL-0354	53.95	55.14	MDAG (2012)	0.27	81400	104	--	--	220	0.91	0.010	47600	0.17	22	47	148	16	81	80700	20	0.19
ABA-029		Mine Rock	4-Acid	And tuf metaseds	Camp	BL-0354	162.76	163.68	MDAG (2012)	1.2	62400	106	--	--	390	2.0	0.020	51100	2.5	83	52	3.0	24	45	72400	22	0.21
ABA-030		Mine Rock	4-Acid	And tuf metaseds	Camp	BL-0354	221.41	221.83	MDAG (2012)	0.080	75300	20	--	--	120	0.57	0.010	63300	0.060	24	31	205	4.0	79	62600	18	0.15
ABA-115		Mine Rock	4-Acid	TRA	Camp	SP10-023	219	220	MDAG (2012)	0.080	81200	14	--	--	410	0.77	0.0050	42300	0.040	36	21	21	7.1	44	58200	21	0.18
ABA-112		Mine Rock	4-Acid	TRA	Camp	SP10-023	279	280	MDAG (2012)	1.2	72200	193	--	--	210	0.46	0.020	79200	0.31	9.9	40	112	8.4	164	77900	16	0.16
ABA-113		Mine Rock	4-Acid	TRA	Camp	SP11-090	159	160	MDAG (2012)	0.10	69800	41	--	--	130	1.2	0.040	59300	0.090	39	29	16	16	24	80200	18	0.17
ABA-114		Mine Rock	4-Acid	And tuf metaseds	Camp	SP11-090	204	205	MDAG (2012)	0.70	81000	64	--	--	300	1.3	0.18	53300	0.20	13	31	139	12	54	58100	17	0.15
ABA-098		Mine Rock	4-Acid	TRA	Portage	SP11-107	159	160	MDAG (2012)	0.21	74300	57	--	--	280	1.3	0.10	21600	0.030	44	28	24	50	36	58100	18	0.21
ABA-103		Mine Rock	4-Acid	TRA	Portage	SP11-107	218	219	MDAG (2012)	0.37	87100	51	--	--	820	2.9	0.090	29800	0.080	51	28	25	23	56	63400	24	0.26
ABA-100		Mine Rock	4-Acid	TRA	Portage	SP11-107	277	278	MDAG (2012)	1.4	75100	96	--	--	590	1.6	0.020	52900	8.1	38	37	133	85	123	80700	18	0.17
ABA-089		Mine Rock	4-Acid	TRA	Portage	SP11-107	338	339	MDAG (2012)	0.23	71700	48	--	--	470	1.4	0.18	38800	0.16	51	21	51	21	36	49900	16	0.20
ABA-012		Mine Rock	4-Acid	TRA	Portage	DH-92-02	120.4	121	MDAG (2012)	4.9	79000	116	--	--	640	3.2	0.11	4500	0.33	36	35	52	42	69	66900	24	0.20
ABA-058		Mine Rock	4-Acid	POR	Portage	DH-92-03	180.9	181.9	MDAG (2012)	10	81900	28	--	--	3940	2.3	0.40	1600	0.030	114	1.5	5.0	4.6	35	22800	18	0.21
ABA-025		Mine Rock	4-Acid	And tuf metaseds	Portage	BL-0142	66.14	67.06	MDAG (2012)	0.20	71600	5.0	--	--	450	1.2	0.040	55300	0.090	62	25	32	9.6	97	52200	21	0.21
ABA-027		Mine Rock	4-Acid	And tuf metaseds	Portage	BL-0142	118.72	119.63	MDAG (2012)	0.090	64800	1.8	--	--	350	1.0	0.030	46600	0.050	58	26	24	7.0	76	61600	19	0.18
ABA-026		Mine Rock	4-Acid	And tuf metaseds	Portage	BL-0142	178.63	179.63	MDAG (2012)	0.43	80700	5.0	--	--	460	1.1	0.030	55800	0.13	43	28	48	10.0	68	79800	20	0.19
ABA-057		Mine Rock	4-Acid	And tuf metaseds	Portage	BL-0142	292.73	293.64	MDAG (2012)	0.15	81000	3.2	--	--	210	0.84	0.030	46800	0.040	34	25	67	7.3	60	49000	19	0.13
ABA-024		Mine Rock	4-Acid	And tuf metaseds	Portage	BL-0145	62.18	63.09	MDAG (2012)	1.6	90600	5.2	--	--	400	1.2	0.13	6600	0.14	12	36	88	9.8	53	61800	21	0.17
ABA-022		Mine Rock	4-Acid	And tuf metaseds	Portage	BL-0145	120.7	121.62	MDAG (2012)	0.21	77400	2.3	--	--	290	1.2	0.020	6900	0.12	28	38	145	9.6	91	71900	22	0.18
ABA-020		Mine Rock	4-Acid	And tuf metaseds	Portage	BL-0145	180.62	181.62	MDAG (2012)	0.42	82200	1.8	--	--	330	0.80	0.010	38500	0.18	16	39	150	10	76	77500	20	0.16
ABA-018		Mine Rock	4-Acid	And tuf metaseds	Portage	BL-0145	242.62	243.23	MDAG (2012)	5.0	74500	8.1	--	--	390	1.0	0.12	60400	15	32	37	150	19	114	88300	19	0.17
ABA-010		Mine Rock	4-Acid	And tuf metaseds	Portage	BL-0145	299.92	300.84	MDAG (2012)	0.42	81000	2.1	--	--	300	1.3	0.010	39200	0.18	24	38	209	16	31	62900	19	0.16
ABA-008		Mine Rock	4-Acid	And tuf metaseds	Portage	BL-0145	365.76	366.67	MDAG (2012)	0.80	79500	5.0	--	--	460	1.5	0.030	35500	0.19	18	24	83	18	35	54900	20	0.15
ABA-006		Mine Rock	4-Acid	And tuf metaseds	Portage	BL-0145	425.5	426.42	MDAG (2012)	9.8	64800	16	--	--	560	1.8	0.39	50500	4.7	367	27	32	12	352	55500	16	0.29
ABA-064		Mine Rock	4-Acid	VBX	Portage	BL-0321	6.71	7.62	MDAG (2012)	0.050	70000	9.7	--	--	450	1.5	0.020	6600	0.060	67	19	23	11	13	82400	20	0.16
ABA-063		Mine Rock	4-Acid	VBX	Portage	BL-0321	65.23	66.14	MDAG (2012)	0.16	61900	26	--	--	540	1.6	0.040	34600	0.20	91	8.2	9.0	13	35	47100	18	0.19
ABA-065		Mine Rock	4-Acid	VBX	Portage	BL-0321	127.1	128.02	MDAG (2012)	0.14	59300	38	--	--	450	1.6	0.030	41800	0.12	89	8.9	10	7.5	30	46800	19	0.19
ABA-062		Mine Rock	4-Acid	VBX	Portage	BL-0321	196.44	197.05	MDAG (2012)	0.14	66900	6.9	--	--	640	1.4	0.050	41500	0.12	68	18	22	11	45	54700	19	0.18
ABA-179		Mine Rock	4-Acid	POR	Portage	SP10-002	243	244	MDAG (2012)	0.39	91700	69	--	--	550	3.0	0.18	6400	0.13	50	44	65	29	91	74800	22	0.35
ABA-178		Mine Rock	4-Acid	VBX	Portage	SP10-002	365	366	MDAG (2012)	0.52	77500	108	--	--	730	2.0	0.91	2800	0.090	192	34	56	15	92	44800	22	0.25
ABA-177		Mine Rock	4-Acid	TRA	Portage	SP10-004	63	64	MDAG (2012)	1.2	81000	210	--	--	460	2.0	0.060	27200	0.10	29	44	138	45	130	65800	18	0.19
ABA-109		Mine Rock	4-Acid	TRA	Portage	SP10-019	7	8	MDAG (2012)	0.19	84400	41	--	--	1360	2.9	0.30	33700	0.070	37	21	51	11	47	42700	22	0.23
ABA-108		Mine Rock	4-Acid	POR	Portage	SP10-019	67	68	MDAG (2012)	0.29	76300	27	--	--	2230	2.9	0.22	31400	0.23	4							

Table B-6. Elemental Content Results

Sample ID	Classification	Digest Method ^(A)	Final Lithology Group	Zone	Drillhole	From	To	Data Source	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Ce	Cu	Fe	Ga	Ge
Units						m	m		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
10x Crustal Abundance (Price 1997)									0.75	--	18	4E-06	10	4250	30	0.085	--	1.5	--	250	1020	--	600	--	190	15
ABA-139	Mine Rock	4-Acid	POR	Portage	SP11-064	243	244	MDAG (2012)	0.26	84000	1.9	--	--	540	0.87	0.010	45300	0.19	42	30	100	15	81	61900	18	0.15
ABA-138	Mine Rock	4-Acid	POR	Portage	SP11-064	303	304	MDAG (2012)	0.23	86500	3.0	--	--	280	0.78	0.020	52500	0.060	38	29	102	8.9	56	61800	19	0.15
ABA-118	Mine Rock	4-Acid	POR	Portage	SP11-068	1	2	MDAG (2012)	0.16	87000	3.0	--	--	180	0.61	0.010	46800	0.080	33	28	95	2.6	51	57600	21	0.19
ABA-116	Mine Rock	4-Acid	POR	Portage	SP11-068	61	62	MDAG (2012)	0.24	79600	4.5	--	--	280	0.45	0.010	66900	0.10	35	24	43	5.7	63	62600	18	0.18
ABA-117	Mine Rock	4-Acid	POR	Portage	SP11-068	121	122	MDAG (2012)	0.98	77700	24	--	--	660	1.3	0.16	46700	0.24	35	23	49	19	63	47500	19	0.17
ABA-146	Mine Rock	4-Acid	TRA	Portage	SP11-068	181	182	MDAG (2012)	0.38	74300	3.3	--	--	520	1.1	0.020	57300	0.080	66	28	19	7.3	94	69900	20	0.20
ABA-147	Mine Rock	4-Acid	TRA	Portage	SP11-068	241	242	MDAG (2012)	2.6	78400	29	--	--	540	0.95	0.13	59400	2.3	41	29	38	8.3	139	58000	18	0.16
ABA-130	Mine Rock	4-Acid	POR	Portage	SP11-068	300	301	MDAG (2012)	1.3	83500	12	--	--	410	0.96	0.060	53500	0.14	40	30	46	12	89	68500	20	0.19
ABA-129	Mine Rock	4-Acid	POR	Portage	SP11-068	360	361	MDAG (2012)	0.27	82700	19	--	--	230	1.0	0.15	51300	0.050	37	27	48	6.4	30	67800	19	0.22
ABA-143	Mine Rock	4-Acid	POR	Portage	SP11-068	420	421	MDAG (2012)	0.13	85800	0.10	--	--	300	0.86	0.15	49400	0.020	39	31	53	5.9	65	56100	20	0.16
ABA-141	Mine Rock	4-Acid	And. tuf. metaseds	Portage	SP11-072	4	5	MDAG (2012)	0.22	85400	47	--	--	220	2.6	0.020	59600	0.10	13	38	211	16	49	62500	17	0.16
ABA-142	Mine Rock	4-Acid	And. tuf. metaseds	Portage	SP11-072	64	65	MDAG (2012)	0.35	74200	76	--	--	360	0.69	0.27	50700	0.16	85	37	144	24	102	67100	15	0.18
ABA-166	Ore-Grade Materials	4-Acid	And. tuf. metaseds	Portage	SP11-072	124	125	MDAG (2012)	0.43	82000	40	--	--	500	1.7	0.080	34600	0.14	40	30	22	9.7	87	50200	18	0.18
ABA-144	Mine Rock	4-Acid	And. tuf. metaseds	Portage	SP11-072	183	184	MDAG (2012)	0.21	69700	46	--	--	210	1.4	0.020	61900	0.080	15	44	134	19	112	80700	15	0.18
ABA-165	Mine Rock	4-Acid	POR	Portage	SP11-072	243	244	MDAG (2012)	0.22	73000	73	--	--	780	1.9	0.070	30600	0.070	103	13	14	7.7	30	59700	21	0.25
ABA-159	Mine Rock	4-Acid	TRA	Portage	SP11-072	307	310	MDAG (2012)	7.7	85400	11	--	--	910	5.2	0.45	22900	0.93	110	29	84	15	164	65800	19	0.23
ABA-145	Mine Rock	4-Acid	POR	Portage	SP11-075	62	63	MDAG (2012)	1.0	89900	18	--	--	3850	2.4	0.52	2200	0.59	72	5.0	4.0	9.7	13	17400	18	0.15
ABA-163	Ore-Grade Materials	4-Acid	POR	Portage	SP11-075	182	183	MDAG (2012)	4.9	86800	43	--	--	740	2.0	1.0	5400	0.21	412	28	67	8.4	101	50500	22	0.33
ABA-164	Mine Rock	4-Acid	POR	Portage	SP11-075	241	242	MDAG (2012)	0.83	88700	29	--	--	2050	1.7	0.99	3100	0.16	94	17	34	13	34	38900	19	0.22
ABA-148	Mine Rock	4-Acid	TRA	Portage	SP11-076	2	3	MDAG (2012)	0.22	92600	34	--	--	460	2.9	0.020	16500	0.13	53	20	70	25	11	54000	21	0.19
ABA-167	Mine Rock	4-Acid	And. tuf. metaseds	Portage	SP11-076	63	64	MDAG (2012)	1.0	62500	139	--	--	400	2.3	0.10	44000	0.13	32	35	69	34	218	102500	14	0.26
ABA-172	Mine Rock	4-Acid	TRA	Portage	SP11-076	122	123	MDAG (2012)	0.40	75700	82	--	--	3200	2.2	0.29	33500	0.53	84	12	20	6.5	29	24800	18	0.27
ABA-173	Mine Rock	4-Acid	TRA	Portage	SP11-076	182	183	MDAG (2012)	1.1	78300	66	--	--	3800	1.3	0.25	58200	0.80	84	11	16	7.1	43	25900	15	0.26
ABA-170	Mine Rock	4-Acid	TRA	Portage	SP11-076	242	244	MDAG (2012)	0.39	90900	48	--	--	3120	3.6	0.51	700	0.35	69	6.9	2.0	9.9	15	22200	21	0.16
ABA-176	Mine Rock	4-Acid	TRA	Portage	SP11-076	303	304	MDAG (2012)	1.9	87500	68	--	--	3920	1.3	0.30	2800	2.8	160	6.2	6.0	5.0	21	16900	19	0.18
ABA-157	Mine Rock	4-Acid	TRA	Portage	SP11-076	365.5	367	MDAG (2012)	1.2	102000	133	--	--	820	3.1	0.050	5400	0.16	45	37	72	11	80	61600	26	0.20
ABA-171	Mine Rock	4-Acid	TRA	Portage	SP11-082	5	6.5	MDAG (2012)	0.24	83100	14	--	--	600	4.8	0.61	30800	2.5	57	4.7	7.0	8.5	22	16400	23	0.21
ABA-160	Ore-Grade Materials	4-Acid	TRA	Portage	SP11-082	306	307	MDAG (2012)	0.69	87700	20	--	--	930	2.2	0.090	3200	0.050	103	16	17	5.3	41	64400	24	0.26
ABA-161	Mine Rock	4-Acid	TRA	Portage	SP11-082	365.5	367	MDAG (2012)	1.7	83800	15	--	--	800	1.6	0.060	5700	0.21	46	35	106	42	92	68300	20	0.22
ABA-158	Mine Rock	4-Acid	TRA	Portage	SP11-082	426	427	MDAG (2012)	0.85	59900	10	--	--	1500	0.35	0.46	46700	0.81	161	9.7	26	7.3	17	24500	10	0.19
ABA-162	Mine Rock	4-Acid	POR	Portage	SP11-087	62	63	MDAG (2012)	1.7	81400	43	--	--	460	0.99	0.41	4600	0.050	127	39	54	17	81	64500	21	0.23
ABA-174	Mine Rock	4-Acid	POR	Portage	SP11-087	122	123	MDAG (2012)	0.39	90000	11	--	--	290	3.2	0.010	8300	0.040	36	36	166	14	106	86900	21	0.28
ABA-150	Mine Rock	4-Acid	POR	Portage	SP11-087	242	243	MDAG (2012)	3.4	92700	9.1	--	--	2990	2.7	0.80	3400	1.3	128	5.2	6.0	4.0	124	14900	22	0.21
ABA-156	Mine Rock	4-Acid	POR	Portage	SP11-087	301.5	303	MDAG (2012)	1.1	85600	9.1	--	--	1110	0.64	0.21	5400	0.42	263	15	32	12	65	34500	18	0.26
ABA-154	Mine Rock	4-Acid	TRA	Portage	SP11-087	362	363	MDAG (2012)	0.91	86600	13	--	--	540	2.0	0.11	51900	0.10	42	30	54	31	68	60400	20	0.21
ABA-169	Mine Rock	4-Acid	POR	Portage	SP11-088	7	8	MDAG (2012)	0.77	82900	60	--	--	410	2.1	0.030	23400	0.050	44	26	60	11	41	58400	19	0.19
ABA-159	Mine Rock	4-Acid	POR	Portage	SP11-088	66	67	MDAG (2012)	0.39	86500	276	--	--	280	1.9	0.090	27700	0.16	41	35	52	26	81	77700	21	0.22
ABA-175	Mine Rock	4-Acid	POR	Portage	SP11-088	126	127	MDAG (2012)	0.99	79900	20	--	--	1280	3.4	0.35	36500	0.43	86	18	38	11	45	40100	19	0.22
ABA-152	Mine Rock	4-Acid	POR	Portage	SP11-088	246	247	MDAG (2012)	0.29	81700	35	--	--	2420	2.6	0.27	30900	0.27	59	13	23	8.5	24	28900	19	0.19
ABA-153	Mine Rock	4-Acid	POR	Portage	SP11-088	305.5	307	MDAG (2012)	4.2	86400	30	--	--	1800	2.0	0.32	2600	1.5	99	19	25	14	39	34600	19	0.22
ABA-151	Ore-Grade Materials	4-Acid	POR	Portage	SP11-088	365.5	367	MDAG (2012)	5.4	83300	20	--	--	1770	3.7	0.85	3100	0.53	177	33	92	23	179	76100	21	0.33
ABA-155	Mine Rock	4-Acid	POR	Portage	SP11-088	427	428.5	MDAG (2012)	1.3	81700	26	--	--	1040	1.5	0.42	31000	0.11	137	18	31	7.9	52	37500	18	0.22
ABA-104	Mine Rock	4-Acid	TRA	Portage	SP11-097	62	63	MDAG (2012)	0.48	93600	26	--	--	480	1.8	0.060	17100	0.14	63	31	89	15	68	65600	24	0.24
ABA-090	Mine Rock	4-Acid	TRA	Portage	SP11-097	241	242	MDAG (2012)	1.7	85100	14	--	--	900	1.8	0.020	4200	0.16	19	37	186	24	75	78100	20	0.23
ABA-111	Mine Rock	4-Acid	POR	Portage	SP11-099	64	65	MDAG (2012)	0.41	78700	57	--	--	4080	3.0	0.44	30100	0.30	65	4.4	3.0	5.9	20	14900	22	0.25
ABA-087	Mine Rock	4-Acid	TRA	Portage	SP11-099	304	305	MDAG (2012)	0.35	94800	66	--	--	4280	2.7	0.31	1100	0.040	228	15	32	12	70	26700	23	0.24
ABA-096	Mine Rock	4-Acid	And. tuf. metaseds	Portage	SP11-106	4	5	MDAG (2012)	0.41	74500	76	--	--	2130	3.0	0.43	42500	0.27	75	13	27	14	36	28800	18	0.22
ABA-091	Mine Rock	4-Acid	And. tuf. metaseds	Portage	SP11-106	64	65	MDAG (2012)	0.26	78600	48	--	--	2980	2.2	0.33	32900	0.26	77	13	20	16	41	25400	18	0.15
ABA-093	Mine Rock	4-Acid	And. tuf. metaseds	Portage	SP11-106	124	125	MDAG (2012)	0.22	76300	149	--	--	370	3.3	0.060	37600	0.090	69	21	26	17	51	61300	21	0.24
ABA-094	Mine Rock	4-Acid	And. tuf. metaseds	Portage	SP11-106	182	185	MDAG (2012)	0.36	73100	115	--	--	1430	2.0	0.30	30800	0.12	55	15	29	12	42	36600	17	0.19
ABA-102	Mine Rock	4-Acid	POR	Portage	SP11-106	244	245	MDAG (2012)	0.30	90600	66	--	--	3930	5.5	0.50	1400	0.14	177	8.2	7.0	13	24	17200	27	0.35
ABA-088	Mine Rock	4-Acid	POR	Portage	SP11-106	304	305	MDAG (2012)	0.24	95100	43	--	--	3020	4.6	0.45	1900	0.10	132	6.4						

Table B-6. Elemental Content Results

Sample ID	Classification	Digest Method ^(A)	Final Lithology Group	Zone	Drillhole	From	To	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb
Units						m	m	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
10x Crustal Abundance (Price 1997)								0.85	0.85	--	--	390	200	--	9500	12	--	840	10500	140	--	--	--	3500	2
099501	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-133	416	418	1.5	0.75	0.012	7800	31	37	7800	66	49	200	0.12	23.7	789	519	98	0.0030	23900	1.3
099502	One-Grade Materials	3:1 Aqua Regia	LAM	Portage	SP12-133	365	367	1.5	0.27	0.015	8700	152	36	7700	67	62	100	0.14	21.3	553	113	110	0.0050	36600	2.4
099503	Mine Rock	3:1 Aqua Regia	POR	Portage	SP12-133	376	379	0.94	0.028	0.016	29200	32	86	31700	344	18	300	<0.050	61.2	1187	13	436	0.0080	29600	0.54
099504	Mine Rock	3:1 Aqua Regia	POR	Portage	SP12-133	257.5	259.5	0.72	0.12	0.0060	2400	20	7.0	1700	1117	10	300	<0.050	25.4	871	18	19	0.0020	29700	1.3
099505	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	SP12-133	251.5	253.5	0.83	0.24	0.0050	1800	27	1.8	400	3093	2.5	400	<0.050	18.3	687	40	9.3	0.0020	11400	2.7
099506	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	SP12-133	103	105	0.22	0.032	0.014	4400	13	22	35100	1481	21	200	<0.050	96.3	336	5.2	45	0.0020	6900	0.69
099507	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP12-133	39	41	0.55	0.0090	0.010	11300	8.2	15	25100	792	1.1	200	0.1	100.1	551	4.2	92	<0.0010	3700	3.1
099508	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Camp	SP12-132	140	142	1.1	0.0090	0.028	7900	18	8.1	11700	1541	2.2	300	0.22	18.4	1062	4.6	65	0.0020	5200	2.8
099509	Mine Rock	3:1 Aqua Regia	VBX	Camp	SP12-132	27	29	0.99	0.012	0.023	19700	22	32	13500	1197	5.9	500	0.3	84.6	1593	10	150	<0.0010	10400	1.7
099510	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Camp	SP12-132	4.5	6.5	0.48	0.017	0.011	7700	16	12	17800	1303	2.2	300	0.14	122.1	710	7.0	74	<0.0010	4500	3.6
099511	One-Grade Materials	3:1 Aqua Regia	And tuf. metaseds	Portage	SP12-131	433	435	1.1	0.11	0.016	16300	218	341	22100	86	277	300	0.18	54.5	814	1585	199	0.096	55900	1.5
099512	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-131	349	351	1.5	0.21	0.0070	6500	54	26	5400	46	65	100	0.07	22.4	638	52	78	0.019	25600	1.5
099513	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-131	280	282	2.8	0.050	0.014	7700	117	24	7100	358	18	300	0.18	21.7	1375	44	92	0.0050	12300	1.7
099514	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP12-131	207	209	0.87	1.6	0.0070	4200	24	12	5100	1026	7.9	200	<0.050	22.6	767	47	33	<0.0010	23700	0.90
099515	Mine Rock	3:1 Aqua Regia	POR	Portage	SP12-131	163.5	165.5	1.5	0.092	<0.0050	3100	22	8.6	1800	529	6.2	400	0.09	6.9	631	70	22	<0.0010	10500	1.3
099516	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	SP12-131	108	110	0.35	0.010	0.014	900	18	12	20900	1199	1.7	300	<0.050	42.8	804	3.7	4.5	0.0030	17100	0.27
099517	Mine Rock	3:1 Aqua Regia	POR	Portage	SP12-131	33	35	0.68	0.013	0.0060	2300	24	5.9	10700	1593	5.2	100	0.13	29.4	946	5.2	13	0.0010	2900	2.5
099518	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Camp	SP12-125	34	36	1.2	0.010	0.018	12600	20	18	12300	928	3.2	300	0.22	27.8	926	6.5	115	0.0020	12700	1.5
099519	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Camp	SP12-125	22	24	1.0	0.010	0.027	5700	16	6.3	13200	1124	6.7	400	0.27	23.7	998	5.0	52	0.0020	27800	1.8
099520	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Camp	SP12-126	72	74	0.42	0.0070	0.022	1200	16	13	19200	877	1.0	200	0.08	27.9	945	3.0	8.7	0.0010	4400	3.1
099521	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Camp	SP12-126	167	169	0.15	0.014	0.018	700	12	51	40600	961	4.9	200	<0.050	126.1	430	2.4	3.6	0.0010	9400	0.44
099522	One-Grade Materials	3:1 Aqua Regia	VBX	Camp	SP12-126	228.5	231.5	0.57	0.023	0.021	25300	27	57	26300	947	18	300	0.07	99.8	491	19	203	0.0040	25200	0.75
099523	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Camp	SP12-126	297	299	0.14	0.017	0.038	7600	5.1	44	38800	1383	1.2	200	<0.050	88.4	330	5.5	59	0.0010	5200	0.27
099524	One-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP12-127	19.2	21.2	2.6	0.16	0.012	5800	61	17	12300	943	33	200	0.13	24.9	1490	41	69	0.0020	14100	4.7
099525	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP12-127	149	151	1.5	0.15	0.010	6300	24	16	4800	40	11	200	0.05	29.1	414	38	73	0.0040	15300	1.4
099526	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-127	258	260	1.4	0.15	0.015	8300	564	34	9200	55	384	100	0.16	22.8	568	119	116	0.034	32000	2.3
099527	Mine Rock	3:1 Aqua Regia	POR	Portage	SP12-127	272.1	275	1.1	0.26	0.0060	5900	33	11	5300	30	150	200	0.08	29.4	107	66	72	0.0040	13500	1.3
099528	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-127	373	375	0.65	0.039	0.023	16100	43	74	16100	1124	13	400	<0.050	41.3	852	15	219	0.0030	16400	0.51
099529	One-Grade Materials	3:1 Aqua Regia	And tuf. metaseds	Portage	SP12-127	394	396	0.62	0.094	0.037	18900	37	142	19400	1183	35	300	<0.050	37.7	859	15	306	0.0080	42300	0.49
099530	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Camp	SP12-121	323	325	0.24	0.038	0.038	6500	13	57	42500	1456	5.6	200	<0.050	98.9	327	16	54	0.0040	22900	0.79
099531	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Camp	SP12-121	271	273	0.090	0.015	0.060	3900	4.6	52	43400	1145	1.9	200	<0.050	88.6	347	5.5	29	0.0020	3600	0.23
099532	One-Grade Materials	3:1 Aqua Regia	And tuf. metaseds	Camp	SP12-121	116	118	0.61	0.014	0.031	7400	19	46	31000	1162	3.2	400	0.05	102.8	888	6.7	79	0.0010	10900	1.5
099533	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Camp	SP12-121	71.1	71.3	0.29	0.0070	0.033	400	7.8	103	27900	887	1.0	200	<0.050	59	495	2.7	2.2	0.0020	1100	0.61
099534	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	SP12-119A	166	167.5	1.3	0.46	0.0060	2400	22	7.3	4600	5008	8.6	300	<0.050	26.8	695	44	18	0.0030	19000	2.4
099535	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-119A	73	75	1.7	0.11	0.012	8900	27	23	15200	941	65	200	0.06	19	627	57	111	0.0070	15800	1.9
099536	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-119A	24	26	1.8	0.31	0.012	12300	24	19	15600	90	156	200	0.31	28.3	473	72	127	0.0090	20000	3.0
099537	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP12-119A	198	199	0.99	0.13	0.0090	11100	24	15	19900	1585	6.3	400	<0.050	35.8	891	38	94	0.0020	30300	2.0
099538	One-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP12-114	529	530.5	1.2	0.20	0.0090	17700	55	207	22000	222	144	200	0.15	55.6	1178	48	221	0.11	65000	0.85
099539	Mine Rock	3:1 Aqua Regia	LAM	Portage	SP12-114	344.8	345.6	0.35	<0.0050	0.054	56600	7.9	49	67200	5077	0.61	300	0.13	526.9	681	9.0	754	<0.0010	1000	0.51
099540	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-114	305	306	1.7	0.052	0.0080	8000	20	14	9800	901	11	500	0.12	27.8	675	105	99	0.0020	24900	1.6
099541	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP12-114	279.5	280.5	1.2	0.19	<0.0050	5200	36	13	7400	1256	5.4	300	0.11	18.7	649	46	62	0.0010	26300	1.3
099542	Mine Rock	3:1 Aqua Regia	POR	Portage	SP12-114	152	153	1.6	0.26	<0.0050	5400	22	9.7	7700	1151	3.1	400	0.16	7.2	619	113	61	<0.0010	9200	0.88
099543	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP12-114	45	46	0.82	0.018	0.012	5800	11	5.5	19200	1121	4.3	200	0.29	18.5	1269	7.3	56	0.0020	8300	5.5
099544	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP11-104	382	384	1.1	0.077	0.014	21200	19	570	31300	246	86	200	0.17	49.9	1956	49	304	0.076	79300	1.3
099545	One-Grade Materials	3:1 Aqua Regia	And tuf. metaseds	Portage	SP11-104	356	357	1.2	0.41	0.028	20800	901	1336	37700	64	1228	300	1.1	5.4	660	634	347	1.2	48100	15
099546	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP11-104	320.9	322.9	1.1	0.15	0.0080	8400	192	42	9800	75	29	200	0.11	19.4	381	43	131	0.0070	23200	1.1
099547	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-117A	411	413	0.25	0.0050	0.011	2200	13	29	18500	933	1.3	300	<0.050	50.8	832	7.2	18	<0.0010	600	0.93
099548	One-Grade Materials	3:1 Aqua Regia	POR	Portage	SP12-117A	338	341	1.1	0.22	0.0050	19100	11	603	28900	129	126	200	0.11	65.7	1021	73	302	0.064	65800	1.9
099549	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-117A	299	301	1.4	0.26	0.051	12900	43	297	17000	164	205	300	0.19	34.7	298	234	217	0.076	49500	1.3
099550	Mine Rock	3:1 Aqua Regia	POR	Portage	SP12-117A	236.5	238.5	1.8	0.32	0.0090	14900	44	101	21700	162	19	200	0.28	18.9	335					

Table B-6. Elemental Content Results

Sample ID	Classification	Digest Method ^(A)	Final Lithology Group	Zone	Drillhole	From	To	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	
Units						m	m	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
10x Crustal Abundance (Price 1997)						41	41	--	0.85	--	--	390	200	--	9500	12	--	--	840	10500	140	--	--	--	3500	2
009573	One-Grade Materials	3.1 Aqua Regia	TRA	Portage	SP12-142	41	43	1.2	0.38	0.021	9400	9.0	87	10400	571	188	200	0.13	31	54	21	103	0.057	57600	17	
009574	Mine Rock	3.1 Aqua Regia	TRA	Portage	SP12-142	218	220	1.1	0.12	0.013	20500	22	211	25700	204	22	300	0.1	40.4	1129	17	211	0.021	38800	0.68	
009575	Mine Rock	3.1 Aqua Regia	POR	Portage	SP12-142	230	232	1.1	0.12	0.012	8900	102	56	9200	123	93	400	0.09	38.6	1643	30	79	0.0070	69500	0.83	
009576	One-Grade Materials	3.1 Aqua Regia	TRA	Portage	SP12-142	319.5	321.5	0.52	0.021	0.024	26700	30	121	27600	290	15	400	<0.050	68.8	1367	14	229	0.0150	23800	0.45	
009577	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP12-143	26	28	0.31	0.012	0.018	1100	15	23	25200	861	3.8	300	<0.050	38.8	979	2.3	4.4	0.0020	3700	0.62	
009578	One-Grade Materials	3.1 Aqua Regia	And tuf. metaseds	Portage	SP12-143	173.1	175.1	1.1	0.049	0.011	13000	19	20	25100	742	11	400	<0.050	63.8	829	13	159	0.0090	12000	0.81	
009579	Mine Rock	3.1 Aqua Regia	VBX	Portage	SP12-143	340	342	0.71	0.0090	0.015	9800	15	18	26000	1053	1.6	500	<0.050	75	732	5.4	86	<0.0010	14600	0.32	
009580	Mine Rock	3.1 Aqua Regia	VBX	Portage	SP11-100	263	264.5	1.6	0.040	0.012	6900	52	15	5600	1218	46	300	0.26	42	849	42	77	0.0040	36900	1.6	
009581	Mine Rock	3.1 Aqua Regia	TRA	Portage	SP11-100	171	172	1.6	0.12	0.015	7500	22	12	7900	1391	4.1	600	0.27	9.5	1141	24	69	<0.0010	24100	2.5	
009582	Mine Rock	3.1 Aqua Regia	TRA	Portage	SP11-100	47	49	2.1	0.055	<0.0050	6500	24	17	8100	425	6.9	600	0.14	4.9	345	40	63	<0.0010	9500	1.6	
009583	Mine Rock	3.1 Aqua Regia	TRA	Portage	SP11-100	457	458.5	0.38	0.060	0.020	31100	39	151	32800	344	27	1000	0.33	1018	1151	26	293	0.011	4000	1.3	
009584	One-Grade Materials	3.1 Aqua Regia	And tuf. metaseds	Portage	SP11-100	437	439	1.4	0.80	0.13	10300	843	730	17600	104	903	200	0.51	8.1	744	854	136	0.88	31900	47	
009585	Mine Rock	3.1 Aqua Regia	LAM	Portage	SP11-100	335	337	2.5	0.085	0.0060	6900	45	31	7000	75	4.1	300	0.35	15.7	454	29	83	0.0030	11500	1.2	
009586	Mine Rock	3.1 Aqua Regia	POR	Portage	SP11-100	349	351	2.1	0.47	0.018	4900	62	18	2800	62	3.8	300	0.38	15.9	1033	47	45	0.0020	15600	1.2	
009587	One-Grade Materials	3.1 Aqua Regia	And tuf. metaseds	Portage	SP12-151	86.5	88.5	0.22	2.2	0.034	1000	9.6	21	12800	161	3.2	300	<0.050	55.4	699	37	7.5	<0.0010	19300	0.74	
009588	Mine Rock	3.1 Aqua Regia	TRA	Portage	SP12-151	202.5	204.5	1.4	0.33	0.032	12800	174	134	16200	1074	27	600	0.12	18.3	1186	103	182	0.012	14800	1.0	
009589	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP12-171	50	52	0.18	0.053	0.010	1000	13	22	11500	1686	5.8	400	<0.050	64.7	1183	19	5.8	<0.0010	3900	0.41	
009590	Mine Rock	3.1 Aqua Regia	VBX	Portage	SP12-170A	404	405.9	1.4	0.086	0.0080	9000	61	55	9800	742	118	300	0.19	24.3	666	58	100	0.0090	28200	0.91	
009591	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP12-170A	232	234	0.63	0.029	0.020	8800	33	27	8600	1517	4.7	400	0.07	5.4	2082	10	63	0.0030	9900	0.63	
009592	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP12-170A	146.9	148.9	0.63	0.034	0.0070	10700	21	29	10900	107	5.0	300	<0.050	56.9	1246	11	112	0.0030	21000	0.54	
009593	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP12-171	179	181	0.37	0.0070	0.010	5100	13	16	14900	3055	3.5	200	<0.050	43.9	744	3.4	45	0.0020	4400	0.52	
009594	One-Grade Materials	3.1 Aqua Regia	VBX	Portage	SP12-171	271	273	0.95	0.11	0.0080	20100	9.7	390	23700	611	84	300	0.09	52.2	758	26	219	0.12	41000	2.3	
009595	One-Grade Materials	3.1 Aqua Regia	VBX	Portage	SP12-171	308.1	310	1.2	0.48	0.025	28900	906	64	13400	1408	82	800	0.33	17.8	776	1075	152	0.099	24600	1.4	
009596	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP12-170A	74	77	0.29	0.027	0.0090	1600	31	22	10500	2783	4.1	500	<0.050	51	1140	6.4	8.8	0.0020	3100	0.89	
009597	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP12-165	86	88	0.37	0.065	0.028	15100	32	46	28900	815	7.0	400	<0.050	66.6	1304	29	176	0.0040	14000	0.63	
009598	One-Grade Materials	3.1 Aqua Regia	TRA	Portage	SP12-165	172	174	0.86	0.070	0.0090	23800	34	235	28500	818	27	300	<0.050	47.9	768	52	240	0.022	37600	0.51	
009599	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP12-165	40	42	0.22	<0.0050	0.017	700	9.5	33	29800	1254	0.88	400	<0.050	64.4	760	5.0	3.0	0.0020	500	0.10	
009600	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP12-174	198	200	0.46	0.013	0.033	7200	15	32	29600	924	1.7	400	0.06	77.6	938	12	50	<0.0010	6900	0.37	
009601	One-Grade Materials	3.1 Aqua Regia	VBX	Portage	SP12-160	342	345	1.3	0.044	0.022	14300	207	124	16100	919	26	300	0.21	29.9	715	95	201	0.011	23100	0.57	
009602	One-Grade Materials	3.1 Aqua Regia	TRA	Portage	SP12-160	287	290	1.1	0.14	0.029	21900	50	565	26900	322	279	300	0.22	52.3	870	200	263	0.31	54900	0.88	
009603	One-Grade Materials	3.1 Aqua Regia	VBX	Portage	SP12-185	199	201	0.81	0.34	0.021	4100	31	13	5300	853	34	200	<0.050	23.8	650	107	55	0.069	50000	0.77	
009604	Mine Rock	3.1 Aqua Regia	VBX	Portage	SP12-185	159	161	0.34	<0.0050	0.090	1200	20	11	14800	1022	1.5	200	<0.050	25.7	831	2.3	6.3	0.0020	1400	0.33	
009605	Mine Rock	3.1 Aqua Regia	VBX	Portage	SP12-184	211	213	2.0	0.016	0.017	10900	31	11	7600	1295	1.4	300	0.67	13.4	763	9.6	90	0.0020	2900	1.7	
009606	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP12-184	129	131	0.50	0.019	0.013	4400	22	14	20400	999	0.65	300	0.12	45.5	890	5.0	37	<0.0010	2800	1.1	
009607	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP12-184	55	57	0.29	0.099	0.012	2500	29	20	12500	1505	16	100	0.07	86.1	358	6.3	19	0.0050	14400	0.63	
009608	Mine Rock	3.1 Aqua Regia	POR	Portage	SP12-183	130	132	1.3	0.12	0.0090	15900	25	133	24600	1790	115	200	0.09	47.7	726	440	169	0.081	43700	0.70	
009609	One-Grade Materials	3.1 Aqua Regia	TRA	Portage	SP12-183	286.5	288.5	1.3	0.044	<0.0050	1700	35	2.3	490	300	6.3	400	0.25	5.4	520	78	8.3	0.0050	4900	1.3	
009610	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP12-183	65.3	67.7	0.40	0.062	0.015	1600	20	28	16000	2022	16	300	0.06	47.6	907	13	10	0.0040	13900	0.75	
009611	Mine Rock	3.1 Aqua Regia	TRA	Portage	SP12-182	388	390	0.41	0.0070	0.014	7200	20	17	23700	959	1.3	300	0.2	44.9	808	2.1	55	<0.0010	600	1.0	
009612	Mine Rock	3.1 Aqua Regia	TRA	Portage	SP12-182	272	274	0.65	0.015	0.0080	7400	24	21	8300	3332	4.4	300	<0.050	35.5	1085	4.5	63	0.0030	3100	0.61	
009613	One-Grade Materials	3.1 Aqua Regia	TRA	Portage	SP12-182	252	254	0.59	0.026	0.010	16600	30	70	19800	278	19	300	<0.050	60.7	1052	33	175	0.054	9800	0.42	
009614	Mine Rock	3.1 Aqua Regia	TRA	Portage	SP12-182	227	229	1.0	0.048	0.017	13000	275	192	13800	237	76	200	0.15	37.7	925	115	181	0.014	32800	0.76	
009615	Mine Rock	3.1 Aqua Regia	LAM	Portage	SP12-182	183.5	185.5	1.2	0.054	0.033	29600	17	144	35600	92	26	400	0.21	168.3	323	11	410	0.0090	8100	3.1	
009616	Mine Rock	3.1 Aqua Regia	TRA	Portage	SP12-182	127	129	0.36	<0.0050	0.022	14100	19	28	15100	2601	6.1	400	<0.050	34.8	1322	40	119	0.0020	4200	0.19	
009617	One-Grade Materials	3.1 Aqua Regia	POR	Portage	SP12-182	64	66	1.1	0.43	0.080	5800	19	22	5400	61	28	200	0.18	15.7	111	122	59	0.0050	19200	3.3	
009618	One-Grade Materials	3.1 Aqua Regia	And tuf. metaseds	Portage	SP12-160	156	157.5	0.86	0.17	0.013	17200	29	71	20000	157	75	600	0.05	74.3	1152	23	185	0.053	38000	0.58	
009619	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP12-160	115.7	117.2	0.45	0.045	<0.0050	4700	54	26	4000	4171	0.57	400	<0.050	45.5	1403	5.7	47	0.0010	1900	0.64	
009620	One-Grade Materials	3.1 Aqua Regia	VBX	Portage	SP12-160	21.6	23.6	0.59	0.058	0.013	12300	18	48	14300	1593	30	300	<0.050	59.7	921	7.8	162	0.063	24200	0.48	
009621	Mine Rock	3.1 Aqua Regia	TRA	Portage	SP12-177A	154.2	156.2	3.2	0.11	0.016	10700	84	46	12900	108	16	500	0.21	20.2	635	65	146	0.0020	200	7.0	
009622	One-Grade Materials	3.1 Aqua Regia	POR	Portage	SP12-177A	197.2	199	2.1	0.11	0.014	6100	95	43	6300												

Table B-6. Elemental Content Results

Sample ID	Classification	Digest Method ^(A)	Final Lithology Group	Zone	Drillhole	From	To	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	
Units						m	m	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
10x Crustal Abundance (Price 1997)						m	m	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
								0.85	--	--	--	390	200	--	9500	12	--	--	840	10500	140	--	--	3500	2	
009648	Mine Rock	3.1 Aqua Regia	TRA	Portage	SP12-197	93.5	95	2.2	0.11	0.010	9600	48	102	13000	96	195	200	0.32	8.5	271	67	139	0.040	11500	1.1	
009649	Ore-Grade Materials	3.1 Aqua Regia	TRA	Portage	SP12-197	86	88	1.1	0.26	0.025	15000	20	112	17100	216	8.9	100	0.06	15.9	293	11	256	0.0040	30500	1.6	
009650	Mine Rock	3.1 Aqua Regia	TRA	Portage	SP12-197	127	129	2.1	0.20	0.015	7200	35	67	7800	73	149	200	0.26	8.9	485	83	93	0.055	10900	1.1	
009651	Ore-Grade Materials	3.1 Aqua Regia	TRA	Portage	SP12-197	209	211	0.88	0.30	0.020	12600	14	147	16000	126	213	100	0.11	36.2	566	147	199	0.11	60000	1.8	
009652	Ore-Grade Materials	3.1 Aqua Regia	TRA	Portage	SP12-197	310	312	1.1	0.30	0.018	17500	105	513	21400	449	141	100	0.14	51.8	850	62	284	0.27	57600	0.73	
009653	Mine Rock	3.1 Aqua Regia	TRA	Portage	SP12-197	345	347	0.83	0.045	0.017	21400	29	94	23100	308	5.3	400	<0.050	60.7	1134	6.8	227	0.0030	6400	0.39	
009654	Mine Rock	3.1 Aqua Regia	TRA	Portage	SP12-161	9.5	11.5	0.47	0.033	0.0070	6500	18	12	4400	3415	7.0	300	0.13	49.8	3493	5.4	75	0.0040	7100	0.89	
009655	Ore-Grade Materials	3.1 Aqua Regia	VBX	Portage	SP12-161	265	267	1.2	0.67	0.014	9700	27	58	10500	1002	104	200	0.11	42.7	878	215	147	0.12	47500	4.9	
009656	Ore-Grade Materials	3.1 Aqua Regia	TRA	Portage	SP12-162B	42	44	1.0	0.42	0.0070	9400	9.2	57	8700	3931	22	200	0.050	43	1741	17	139	0.068	30500	1.7	
009657	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP10-026	60	62	0.47	0.020	0.014	18200	25	42	19900	237	8.1	200	<0.050	46	1317	5.2	190	0.025	12000	0.36	
009658	Mine Rock	3.1 Aqua Regia	TRA	Portage	SP12-212	118	120	0.62	0.018	0.0080	7700	26	20	9300	1720	5.6	300	<0.050	42	1502	7.6	89	0.0040	5000	0.47	
009659	Ore-Grade Materials	3.1 Aqua Regia	TRA	Portage	SP12-212	160	162	0.63	0.030	0.018	15900	19	43	17200	1511	7.3	300	<0.050	38	1099	4.7	207	0.0040	9100	0.36	
009660	Mine Rock	3.1 Aqua Regia	VBX	Portage	SP12-213	99	101	2.3	0.026	<0.050	7700	57	22	7000	56	3.1	300	0.45	16	191	39	102	0.0020	9000	1.0	
009661	Ore-Grade Materials	3.1 Aqua Regia	TRA	Portage	SP12-212	160	162	2.1	0.017	0.0050	5300	49	21	4800	62	2.5	500	0.44	18	182	47	80	0.0020	3800	1.0	
009662	Mine Rock	3.1 Aqua Regia	POR	Portage	SP12-162B	334	336	2.3	0.042	<0.050	4000	200	66	3400	146	35	300	0.71	11	657	96	50	0.034	12200	1.0	
009663	Mine Rock	3.1 Aqua Regia	VBX	Portage	SP12-199	130	132	1.5	0.17	0.0060	5100	96	35	6000	39	210	100	0.15	13	434	68	62	0.034	18700	1.5	
009664	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP12-199	187	189	1.6	0.14	0.019	5700	35	40	7300	32	181	100	0.080	29	208	40	76	0.020	33500	1.9	
009665	Ore-Grade Materials	3.1 Aqua Regia	POR	Portage	SP12-199	251	253	1.6	2.0	0.013	4700	68	61	5400	41	439	200	0.23	4.3	172	485	58	0.25	13800	18	
009666	Mine Rock	3.1 Aqua Regia	TRA	Portage	SP12-215	82	84	0.53	0.025	0.0080	9500	20	16	5400	2257	10	200	<0.050	34	2811	5.2	57	0.0040	16000	0.38	
009667	Mine Rock	3.1 Aqua Regia	POR	Portage	SP12-215	142	144	1.1	0.069	<0.050	1500	54	19	700	3214	9.2	400	<0.050	17	15	660	12	9.3	0.0090	5300	0.76
009668	Mine Rock	3.1 Aqua Regia	TRA	Portage	SP12-162B	346	348	1.3	0.26	0.027	26700	430	340	22800	1352	28	400	0.21	43	715	720	354	0.017	47800	0.91	
009669	Ore-Grade Materials	3.1 Aqua Regia	VBX	Portage	SP12-162B	95.8	97.8	0.77	0.054	0.010	9300	13	58	9600	162	11	300	<0.050	38	1428	9.7	141	0.011	17900	0.81	
009670	Mine Rock	3.1 Aqua Regia	POR	Portage	SP12-213	113	115	0.61	1.8	0.012	17200	27	46	19900	280	37	200	<0.050	38	4551	36	198	0.047	38900	0.71	
009671	Mine Rock	3.1 Aqua Regia	POR	Portage	SP12-215	173	175	2.1	0.85	0.014	3200	28	15	2600	1483	77	200	0.33	8.8	595	49	34	0.0070	12200	1.2	
009672	Mine Rock	3.1 Aqua Regia	VBX	Portage	SP12-199	304.5	306.4	1.1	0.24	0.012	14100	402	109	20100	144	68	200	0.25	24	916	203	218	0.011	14300	1.2	
009673	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP12-217	88	90	0.51	0.049	0.017	21600	20	65	28600	485	5.8	300	<0.050	73	1028	14	324	0.0050	21400	0.72	
009674	Ore-Grade Materials	3.1 Aqua Regia	TRA	Portage	SP12-217	194	196	0.59	0.32	0.0090	11600	57	50	20300	1480	229	300	<0.050	57	709	79	126	0.92	25100	1.9	
009675	Ore-Grade Materials	3.1 Aqua Regia	And tuf. metaseds	Portage	SP12-219	50	52	0.43	1.5	0.015	7400	26	44	20900	1022	31	300	<0.050	87	1265	170	82	0.022	43200	0.86	
009676	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP12-219	66	68	0.79	0.069	0.011	8300	23	27	20200	1252	6.1	300	0.19	62	1221	8.9	96	0.0030	10600	0.69	
009677	Mine Rock	3.1 Aqua Regia	POR	Portage	SP12-219	106.2	108.2	1.2	0.12	<0.050	1600	40	1.7	300	1289	2.7	100	0.24	4.4	662	66	7.4	0.0030	4700	1.0	
009678	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP12-221	63	65	0.52	0.016	0.027	1800	18	19	17800	2051	1.8	400	0.090	93	1864	8.3	20	0.0030	900	0.73	
009679	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP12-221	109	111	0.27	0.012	0.015	1200	13	21	18600	2580	4.1	300	0.060	48	1122	6.1	10	0.0070	5100	0.72	
009680	Ore-Grade Materials	3.1 Aqua Regia	VBX	Portage	SP12-218	120.2	122	1.9	0.039	0.0060	11000	71	66	13000	132	10	200	0.21	18	488	53	139	0.0070	18800	1.1	
009681	Mine Rock	3.1 Aqua Regia	POR	Portage	SP12-218	49	52	1.4	0.11	0.0070	4400	37	14	3500	31	9.7	100	0.12	40	136	17	49	0.0060	32600	2.6	
009682	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP12-218	86	88	1.8	0.12	0.0070	1400	39	2.9	3900	623	15	500	0.16	4.4	423	137	8.8	0.0030	8100	1.9	
009683	Ore-Grade Materials	3.1 Aqua Regia	VBX	Portage	SP12-168	142	144	0.79	0.069	0.0090	5500	17	12	9500	1133	17	300	0.050	29	935	34	75	0.016	28300	0.53	
009684	Ore-Grade Materials	3.1 Aqua Regia	VBX	Portage	SP12-168	208	209	2.0	0.86	0.011	6600	19	22	12100	1463	39	200	0.11	25	703	126	109	0.034	29400	1.8	
009685	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Camp	SP11-030	175	176	0.25	0.055	0.004	600	11	41	24800	921	1.7	100	<0.050	37	947	6.6	3.2	0.0030	11700	0.36	
009686	Ore-Grade Materials	3.1 Aqua Regia	TRA	Camp	SP11-030	61	62	0.84	0.054	0.011	10700	22	91	12600	1155	12	100	0.050	36	536	26	119	0.0030	41400	2.7	
009687	Ore-Grade Materials	3.1 Aqua Regia	TRA	Camp	SP11-030	53	54	1.1	0.074	0.012	10100	54	88	17900	1700	29	100	0.11	28	580	101	111	0.0050	47400	2.6	
009688	Ore-Grade Materials	3.1 Aqua Regia	And tuf. metaseds	Camp	SP11-030	41	42	1.1	0.043	0.014	14900	15	48	18700	1023	7.1	200	0.16	27	959	14	168	0.0040	44600	2.4	
009689	Mine Rock	3.1 Aqua Regia	TRA	Portage	SP11-044	51	52.5	0.73	0.0080	0.013	9800	22	17	16300	2581	1.1	400	<0.050	25	1850	4.6	113	0.0020	1300	0.81	
009690	Mine Rock	3.1 Aqua Regia	VBX	Portage	SP11-044	124	126	1.3	1.4	0.018	7000	23	24	6500	151	13	300	0.080	55	139	328	84	0.0040	47700	3.6	
009691	Mine Rock	3.1 Aqua Regia	VBX	Portage	SP11-044	177	179	1.2	0.081	0.0050	8300	38	26	9000	128	8.8	500	0.090	19	417	32	134	0.0010	2200	1.6	
009692	Mine Rock	3.1 Aqua Regia	POR	Portage	SP11-044	141	143	1.1	0.046	<0.050	1900	14	2.9	300	37	2.1	400	0.11	8.3	108	36	12	0.0020	5900	0.90	
009693	Ore-Grade Materials	3.1 Aqua Regia	TRA	Portage	SP11-044	285.5	290.2	1.1	0.16	0.0080	20300	27	249	26000	146	30	200	0.10	62	1234	17	312	0.033	35200	1.2	
009694	Mine Rock	3.1 Aqua Regia	TRA	Portage	SP11-044	348	350	0.80	0.15	0.012	6600	20	20	6200	1427	15	200	<0.050	27	1075	29	60	0.0080	46300	1.2	
009695	Mine Rock	3.1 Aqua Regia	VBX	Portage	SP10-026	165.5	167	1.9	0.43	0.0070	6900	66	15	8200	943	33	200	0.15	23	724	106	92	0.0030	23500	6.1	
009696	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP10-026	73	75	1.9	0.011	0.010	11800	13	24	14700	583	12	200	0.12	30	669	3.9	146	<0.010	14200	0.74	
009697	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP10-026	60	62	1.4	0.010	0.012	18700	14	37	22300	694	5.6	200	0.32	30	653	2					

Table B-6. Elemental Content Results

Sample ID	Classification	Digest Method ^(A)	Final Lithology Group	Zone	Drillhole	From	To	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb
Units						m	m	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
10x Crustal Abundance (Price 1997)						22	24	--	0.85	--	--	390	200	--	9500	12	--	840	10500	140	--	--	--	3500	2
A00356184	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP10-022	22	24	1.8	<0.0050	0.0080	6800	67	22	8000	764	0.83	400	0.060	22	1512	29	78	<0.0010	3000	0.60
A00356185	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP10-022	261	263	0.58	0.055	0.012	10000	5.9	68	13000	4664	8.6	300	<0.050	36	1001	8.4	122	0.015	18500	1.0
A00356186	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP10-022	334	336	1.3	0.37	0.013	13900	63	291	17300	1874	441	100	0.070	55	752	240	192	0.19	61100	1.4
A00356187	Mine Rock	3:1 Aqua Regia	POR	Portage	SP11-053	330	332	1.3	0.079	<0.0050	2400	51	9.3	300	35	16	300	0.10	16	646	54	16	0.0050	3400	1.5
A00356188	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP11-053	286	288	0.94	0.15	0.010	19700	9.4	437	26400	204	62	100	0.070	50	754	22	277	0.017	82200	0.73
A00356189	Ore-Grade Materials	3:1 Aqua Regia	VBX	Portage	SP11-053	224	225	0.65	0.084	0.011	7600	19	76	8300	98	100	100	0.14	27	130	20	112	0.017	49100	0.75
A00356190	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP10-022	379.3	381	1.2	0.037	0.0090	7900	19	65	12900	1143	13	300	0.23	38	876	48	106	0.0040	11300	0.97
A00356191	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	SP10-001	194.9	196.7	0.56	0.21	0.025	11800	13	33	20100	1698	2.4	200	0.090	90	705	34	122	0.0020	13800	1.9
A00356193	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	SP10-001	227	228	0.62	0.49	0.014	2100	25	3.0	14600	1728	11	400	0.080	35	915	85	16	0.0010	43500	2.0
A00356194	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP11-033	238	239.5	2.0	0.51	0.0090	5500	49	77	5300	44	166	300	0.18	5.8	81	245	64	0.30	12200	2.9
A00356195	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP11-071	36	38	1.0	0.011	0.010	10500	54	44	12900	962	9.3	400	<0.050	36	723	11	105	0.0020	15000	0.41
A00356196	Mine Rock	3:1 Aqua Regia	POR	Portage	SP11-071	120.8	121.8	2.3	0.48	0.0090	6900	32	23	9200	1276	23	300	0.15	7.3	254	1112	91	0.0020	13100	1.4
A00356197	Ore-Grade Materials	3:1 Aqua Regia	VBX	Portage	SP11-071	242.5	244.5	0.99	0.17	0.015	12400	29	216	16100	200	346	100	0.080	38	874	124	207	0.29	53700	1.5
A00356198	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP11-073	70	72	0.45	0.054	0.025	10200	5.7	36	20200	1866	25	300	<0.050	75	312	12	165	0.0020	51500	1.4
A00356199	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	SP11-077	103	105	0.63	1.1	0.015	8900	20	36	10100	2756	37	100	<0.050	94	712	356	136	0.023	56300	2.7
A00356200	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	SP11-077	137	139	0.75	0.042	0.023	19700	12	74	23100	169	29	200	<0.050	71	814	12	303	0.0020	56200	0.91
009701	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP12-112	222	224	1.4	0.038	0.0070	8300	36	43	10100	993	6.1	200	<0.050	29	585	41	116	0.0020	22200	1.2
009702	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Camp	BL-0287	62.3	76.2	0.74	0.17	0.024	8400	9.9	16	9200	1192	31	200	0.15	46	628	547	133	0.0030	10200	2.4
009703	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Camp	BL-0287	111.2	125	0.11	0.023	0.011	1800	4.7	39	33300	885	0.59	200	<0.050	90	517	2.8	13	<0.0010	1300	0.42
09878	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	SP11-081	166.7	168.7	0.74	0.044	0.013	16300	9.2	45	23500	1276	6.5	200	<0.050	75	684	14	219	0.0020	27300	0.84
09882	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	SP11-077	22	23	0.42	0.069	0.011	31100	15	186	33400	881	5.7	400	<0.050	165	497	8.6	430	<0.0010	11100	1.7
09863	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	SP11-077	124	125	1.4	0.015	0.016	14500	21	33	19000	625	22	200	0.14	28	595	3.0	135	<0.0010	13800	0.66
09864	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP11-077	155	156	0.52	0.20	0.022	24200	9.3	252	30900	1899	19	200	<0.050	97	226	42	397	0.0040	49800	2.1
09865	Ore-Grade Materials	3:1 Aqua Regia	VBX	Portage	SP11-077	163	164	0.78	0.070	0.011	6100	29	27	17400	2126	99	100	<0.050	34	531	180	74	0.020	43800	1.6
09866	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	SP11-078	139	140	0.18	0.0070	0.018	600	11	25	15500	884	0.86	200	<0.050	59	757	3.4	3.0	0.0010	900	0.41
09867	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP11-077	197	198	1.5	0.015	0.013	10100	36	12	8800	1938	14	200	<0.050	18	1310	12	138	0.0020	26900	0.66
09868	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP11-078	198	199	0.23	0.020	0.017	4200	15	24	19800	4050	4.3	300	<0.050	88	1139	4.8	53	0.0020	3800	0.45
09869	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP11-078	263	264	0.74	0.23	0.028	20300	23	93	20300	793	8.8	400	<0.050	39	1311	17	193	0.0060	24500	0.47
09870	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP11-078	383	385	1.2	0.013	0.016	14000	51	57	16800	4479	53	400	0.090	16	1262	34	253	0.013	8400	0.63
09871	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP11-080	29	31	1.7	0.12	0.0070	8500	63	34	7200	1173	5.9	300	0.11	28	679	84	106	0.0020	24400	1.8
09872	Mine Rock	3:1 Aqua Regia	POR	Portage	SP11-080	120	122	2.2	0.061	0.0060	10400	166	78	12800	730	36	400	0.30	6.6	293	123	151	0.0030	6200	0.87
09873	Mine Rock	3:1 Aqua Regia	POR	Portage	SP11-080	172	174	2.3	0.18	0.0070	6100	41	38	6600	436	22	300	0.17	8.5	301	140	80	0.0020	10500	1.5
09874	Mine Rock	3:1 Aqua Regia	LAM	Portage	SP11-080	224.2	226.2	1.0	0.025	0.023	18300	44	58	19600	1004	23	300	0.34	75	887	27	240	0.0020	16000	0.97
09875	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP11-080	266	267	1.1	0.10	0.010	5200	32	16	5300	2871	9.5	400	<0.050	23	826	17	69	0.0030	23400	1.4
09876	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	SP11-081	44.1	46.1	0.40	0.011	0.017	2700	14	27	29800	1006	1.3	200	<0.050	88	441	4.9	21	<0.0010	8400	0.73
09877	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP11-081	83.8	85.8	0.29	0.047	0.014	3900	7.7	24	27100	1413	5.2	100	<0.050	74	315	6.7	42	0.0020	9700	0.62
09879	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP11-083	42.5	44.5	0.82	0.29	0.017	17500	29	142	20200	88	104	200	<0.050	107	43	60	232	0.0070	7100	2.3
09880	Mine Rock	3:1 Aqua Regia	POR	Portage	SP11-083	234	236	1.6	0.084	<0.0050	4900	20	22	9000	90	39	300	0.11	9.0	614	29	68	0.016	12000	1.4
09881	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP11-084	39	41	1.1	0.28	0.018	7300	33	43	6900	67	130	100	0.070	40	265	91	101	0.014	43300	1.6
09882	Mine Rock	3:1 Aqua Regia	POR	Portage	SP11-084	85	87	1.7	0.088	0.0070	7400	59	26	7000	65	11	200	0.15	17	1390	38	100	0.0030	17700	1.5
09883	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP11-084	138	140	1.3	0.068	0.012	13800	29	85	15400	112	77	100	0.080	34	744	26	221	0.0050	34200	0.92
09884	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP11-094	84	86	0.77	0.12	0.014	1800	18	2.5	3100	1056	6.5	300	0.090	12	1353	18	13	<0.0010	26300	2.4
09885	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP11-094	122.5	124.5	0.81	0.068	0.015	2100	19	2.5	7900	1073	5.1	300	0.16	28	1212	17	14	<0.0010	20200	2.9
09886	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP11-094	198.5	200.5	1.3	0.11	0.0080	7300	57	16	7000	881	4.0	300	0.15	20	870	117	87	<0.0010	8200	2.1
09887	Mine Rock	3:1 Aqua Regia	POR	Portage	SP11-094	308	309	1.3	0.073	<0.0050	3800	18	19	3800	16	27	200	<0.050	22	174	38	53	0.0020	17700	0.79
09888	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	SP11-094	399	401	1.3	0.07	0.038	18000	73	338	28900	138	552	200	0.46	14	337	361	301	0.20	17200	1.5
09889	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP11-084	324.5	326.5	1.1	0.28	0.024	11400	1065	97	19000	500	485	600	1.0	26	688	379	177	0.040	19700	1.6
09890	Mine Rock	3:1 Aqua Regia	POR	Portage	SP11-091	72	74	1.9	0.13	<0.0050	2500	38	6.2	1300	27	13	300	0.18	4.2	247	36	21	0.022	10500	2.0
09891	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP11-091	82.2	84	0.85	0.15	0.020	15200	17	51	17600	122	15	200	<0.050	27	246	18	215	0.0080	39000	2.5
09892	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP11-083	146	148	0.82	1.1	0.014	11200	69	74	14700	98	190	200	0.090	29	280	149	145	0.16	44200	2.2
09893	Ore-Grade Materials	3:1 Aqua Regia	VBX	Portage</																					

Table B-6. Elemental Content Results

Sample ID	Classification	Digest Method ^(A)	Final Lithology Group	Zone	Drillhole	From	To	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb
Units						m	m	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
10x Crustal Abundance (Price 1997)								0.85	--	--	--	390	200	--	9500	12	--	--	840	10500	140	--	--	3500	2
R00017801	Mine Rock	3:1 Aqua Regia	TRA	Camp	BL-02820	52.85	53.46	0.88	0.016	0.010	2200	19	11	12300	978	1.3	300	0.090	31	700	3.9	20	<0.0010	5000	1.5
R00017908	One-Grade Materials	3:1 Aqua Regia	VBX	East Extension	BL-0319	25.3	25.66	1.7	0.035	0.014	3700	10	8.5	16500	2121	5.2	200	0.11	17	672	11	46	0.0010	48800	2.0
R00017838	Mine Rock	3:1 Aqua Regia	TRA	Camp	BL-02820	100.49	100.99	0.26	0.018	0.024	1000	13	39	25000	738	0.74	200	<0.050	32	672	2.2	4.5	<0.0010	700	0.21
R00017839	Mine Rock	3:1 Aqua Regia	VBX	Camp	BL-02820	126.31	126.74	0.28	0.039	0.037	800	9.31	42	27800	765	2.2	200	<0.050	51	524	2.0	3.4	0.0020	37000	0.24
R00017823	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Camp	BL-0283	24.78	25.31	0.61	0.0060	0.023	900	12	43	11600	1185	0.64	300	0.070	67	650	1.7	4.1	0.0010	1500	1.1
R00017824	One-Grade Materials	3:1 Aqua Regia	And tuf. metaseds	Camp	BL-0283	83.36	84.12	0.64	0.020	0.019	1300	19	34	16500	1004	7.7	300	<0.050	77	577	8.2	5.1	0.0030	17700	1.8
R00017802	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Camp	BL-0284	11.28	12.19	0.54	0.0080	0.037	800	19	72	17800	1025	1.6	300	<0.050	47	937	5.3	3.3	<0.0010	1000	0.32
R00017825	Mine Rock	3:1 Aqua Regia	POR	Camp	BL-0284	50.29	50.9	0.39	0.022	0.0090	1600	21	25	15600	1162	16	200	<0.050	31	647	1.7	6.5	0.0030	4600	0.74
R00017803	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Camp	BL-0284	74.8	76.14	0.41	0.015	0.013	2200	12	32	21800	912	0.81	200	<0.050	45	593	2.8	14	0.0010	3200	0.45
R00017826	One-Grade Materials	3:1 Aqua Regia	VBX	Camp	BL-02850	25.3	25.57	0.83	0.13	0.018	13100	13	74	26700	1780	20	300	0.050	56	777	20	91	<0.0010	51000	2.1
R00017804	Mine Rock	3:1 Aqua Regia	VBX	Camp	BL-02850	46.73	47.46	1.3	0.024	0.019	9700	278	27	25600	1795	16	500	0.34	34	676	165	80	0.0060	8800	2.4
R00017860	Mine Rock	3:1 Aqua Regia	TRA	Camp	BL-02850	73.91	75.36	1.0	0.050	0.026	8500	20	43	20900	742	6.6	300	0.11	29	892	8.3	69	0.0020	12500	1.2
R00017840	Mine Rock	3:1 Aqua Regia	TRA	Camp	BL-02850	100.77	101.16	0.34	0.016	0.058	500	13	44	29300	671	0.72	200	0.050	24	767	2.5	2.5	0.0020	900	0.19
R00017841	Mine Rock	3:1 Aqua Regia	VBX	Camp	BL-02850	125.43	126.46	0.14	0.037	0.0090	1400	4.9	37	29500	788	0.79	300	0.080	44	513	1.0	8.8	<0.0010	1500	0.82
R00017842	Mine Rock	3:1 Aqua Regia	TRA	Camp	BL-02850	143.59	144.11	0.33	0.039	0.022	2200	11	41	31500	814	0.57	200	<0.050	91	464	2.2	12	0.0010	8000	0.48
R00017805	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	BL-0286	10.42	11.86	1.0	0.36	0.010	4100	40	11	14400	1078	36	300	<0.050	42	623	32	29	0.012	33300	21
R00017806	One-Grade Materials	3:1 Aqua Regia	And tuf. metaseds	Portage	BL-0286	40.72	41.18	0.84	0.092	0.011	4800	5.6	8.4	19200	1452	8.2	300	0.24	20	487	6.2	38	0.0010	30100	2.1
R00017827	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Camp	BL-0287	57.91	58.64	0.37	0.079	0.024	900	30	31	19500	1601	39	200	<0.050	132	471	8.8	3.7	0.012	61100	0.29
R00017843	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Camp	BL-0287	118.41	118.9	0.61	0.021	0.017	800	17	27	14700	662	1.2	300	<0.050	27	598	4.1	3.4	<0.0010	1200	0.31
R00017828	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Camp	BL-0288	24.99	26.12	0.27	0.064	0.024	1700	13	52	29200	979	1.2	200	<0.050	36	529	3.8	13	<0.0010	2900	0.28
R00017829	One-Grade Materials	3:1 Aqua Regia	And tuf. metaseds	Camp	BL-0288	60.2	60.56	0.47	0.071	0.025	5900	9.1	61	32400	896	1.1	300	<0.050	54	901	5.7	56	0.0010	15800	0.92
R00017844	One-Grade Materials	3:1 Aqua Regia	And tuf. metaseds	Camp	BL-0288	101.5	102.5	0.39	0.043	0.025	1100	15	41	26500	1059	4.8	200	<0.050	47	631	3.8	7.7	0.0020	2900	0.53
R00017881	One-Grade Materials	3:1 Aqua Regia	POR	Portage	BL-0289	10.12	10.79	0.62	0.057	0.011	7100	17	19	5200	4689	2.1	200	0.21	74	1203	4.8	58	0.0010	32600	1.4
R00017882	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	BL-0289	24.54	25.12	1.2	0.036	0.013	4400	18	9.3	12600	1456	2.8	300	0.36	9.4	1110	7.6	37	0.0010	19500	1.6
R00017909	Mine Rock	3:1 Aqua Regia	TRA	Camp	BL-02820	84.25	84.64	0.81	0.022	0.032	25300	19	77	24500	888	2.3	500	0.12	28	834	6.8	183	0.0010	2300	0.58
R00017807	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	BL-0290	30.78	31.52	0.80	0.037	0.010	3800	16	7.9	17800	1261	7.3	200	0.16	22	691	6.9	29	0.0020	19200	1.7
R00017830	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	BL-0290	51.82	52.73	1.0	0.026	0.015	2300	19	6.2	14100	1156	6.5	200	0.24	9.9	1195	6.1	16	0.0010	32700	2.0
R00017831	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	BL-0290	74.22	74.43	0.30	0.011	0.020	1000	14	33	18500	861	0.69	200	<0.050	13	871	1.6	5.5	0.0010	1300	1.0
R00017832	Mine Rock	3:1 Aqua Regia	POR	East Extension	BL-0293	10.67	11.09	0.71	0.25	0.0050	2100	22	5.5	9700	1775	5.9	300	0.050	10	1159	38	15	<0.0010	5800	3.6
R00017833	Mine Rock	3:1 Aqua Regia	POR	East Extension	BL-0293	25.3	25.6	1.0	0.15	<0.005	2000	28	7.5	28700	9407	2.6	300	0.050	9.5	948	30	15	<0.0010	3700	2.1
R00017834	Mine Rock	3:1 Aqua Regia	POR	East Extension	BL-0293	48.89	49.68	1.2	0.57	0.0060	4100	31	13	9100	1655	1.5	600	0.11	8.2	1323	77	43	<0.0010	4700	3.0
R00017883	Mine Rock	3:1 Aqua Regia	VBX	East Extension	BL-0294	8.93	10.42	1.0	0.13	<0.005	3900	25	8.7	6300	1356	5.1	200	0.090	8.4	1268	28	41	<0.0010	6100	1.9
R00017884	Mine Rock	3:1 Aqua Regia	VBX	East Extension	BL-0294	22.86	22.95	0.78	0.19	0.0060	3200	23	6.6	10000	1696	3.7	200	0.080	11	1406	51	29	<0.0010	6000	3.3
R00017885	Mine Rock	3:1 Aqua Regia	VBX	East Extension	BL-0294	49.38	50.81	0.67	0.034	0.012	13000	7.1	11	17600	3125	2.7	200	0.13	63	712	31	150	0.0010	27500	2.0
R00017835	Mine Rock	3:1 Aqua Regia	VBX	East Extension	BL-0295	11.28	11.83	0.59	0.044	0.014	1600	53	1.9	9000	576	15	300	0.090	37	953	7.9	8.4	<0.0010	37100	5.5
R00017808	Mine Rock	3:1 Aqua Regia	VBX	East Extension	BL-0295	74.52	74.98	0.72	0.064	0.0090	5400	8.4	8.2	19300	1216	1.0	200	0.060	60	616	4.0	53	<0.0010	4200	1.6
R00017845	Mine Rock	3:1 Aqua Regia	VBX	East Extension	BL-0295	111.86	112.72	0.90	0.036	0.012	6400	10	13	14300	1882	3.9	300	0.11	31	720	12	89	0.0010	19500	2.8
R00017846	One-Grade Materials	3:1 Aqua Regia	VBX	East Extension	BL-0295	124.05	124.66	0.96	0.71	0.030	2200	11	2.4	15500	1765	78	200	0.080	17	981	69	21	0.0050	37500	5.5
R00017886	Mine Rock	3:1 Aqua Regia	TRA	Portage	BL-0297	10	10.79	0.70	0.032	0.011	9500	16	22	22600	1465	4.6	200	0.10	23	628	5.5	102	0.0020	22900	0.95
R00017887	One-Grade Materials	3:1 Aqua Regia	TRA	Portage	BL-0297	24.84	25.12	0.70	0.53	0.013	4000	17	9.4	15200	1762	7.5	200	0.13	24	569	17	32	0.0020	22100	1.7
R00017888	Mine Rock	3:1 Aqua Regia	TRA	Portage	BL-0297	47.85	48.46	0.31	0.058	0.012	1300	12	34	26900	945	2.9	200	<0.050	39	444	6.6	6.7	0.0020	20600	1.2
R00017889	Mine Rock	3:1 Aqua Regia	TRA	Portage	BL-0297	83.39	83.7	0.45	0.036	0.016	900	17	57	30400	875	11	200	<0.050	75	446	4.0	4.7	0.0020	4100	0.44
R00017809	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Camp	BL-0298	8.84	10.36	0.76	0.018	0.011	13800	14	12	13100	1250	5.1	300	0.14	26	621	4.4	124	<0.0010	3400	1.1
R00017836	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Camp	BL-0298	20.79	22.25	0.65	0.013	0.0070	11100	9.4	11	14800	821	8.3	200	0.13	52	552	5.2	101	<0.0010	11700	3.2
R00017890	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Camp	BL-0299	12.8	13.17	0.31	0.027	0.016	1200	21	31	16100	1087	8.0	200	<0.050	19	803	5.7	5.3	0.0030	13000	0.46
R00017891	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Camp	BL-0299	99.18	99.76	0.73	0.025	0.022	2200	12	136	34900	1203	4.2	500	<0.050	49	442	9.6	280	0.0010	13800	0.93
R00017892	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Camp	BL-0299	124.91	125.21	0.19	0.018	0.018	1600	7.4	43	26400	855	1.2	200	<0.050	47	373	5.7	11	<0.0010	1400	0.30
R00017810	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Camp	BL-0299	149.32	150.27	0.090	0.011	0.046	30200	18	85	42700	1688	2.1	400	0.060	90	727	2.3	248	<0.0010	1300	0.53
R00017893	Mine Rock	3:1 Aqua Regia	VBX	Camp	BL-0302	23.16	23.35	1.3	0.029	0.010	7200	11	12	6600	835	4.1	200	0.31	20	792	3.9	62	0.0020	21900	3.3

Table B-6. Elemental Content Results

Sample ID	Classification	Digest Method ^(A)	Final Lithology Group	Zone	Drillhole	From	To	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb
Units						m	m	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
10x Crustal Abundance (Price 1997)								0.85	--	--	--	390	200	--	9500	12	--	--	840	10500	140	--	--	3500	2
R00017876	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	BL-0309	10.36	11.28	0.89	0.021	0.013	16000	19	29	18100	798	8.4	300	0.13	40	946	9.6	158	0.0010	15800	0.97
R00017877	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	BL-0309	24.29	26.21	0.23	0.048	0.0070	1800	8.5	35	18800	786	4.7	200	<0.050	102	391	4.9	10	<0.0010	25500	1.3
R00017878	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	East Extension	BL-0316	51.82	52.62	0.13	0.017	0.014	1000	7.4	52	33800	823	1.7	200	<0.050	102	413	2.8	5.2	<0.0010	2800	1.6
R00017881	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	BL-0310	10.15	12.5	0.20	0.031	0.0070	1400	9.5	37	21200	877	6.4	100	<0.050	99	320	4.3	8.2	<0.0010	11800	0.83
R00017882	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	BL-0310	50.69	51.24	0.71	0.073	0.0080	11700	16	35	27100	856	0.95	200	0.11	89	517	2.9	122	<0.0010	10400	0.87
R00017883	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	BL-0310	75.19	75.8	0.63	0.062	0.018	7500	18	22	19000	837	37	600	<0.050	121	509	4.9	67	0.0020	47800	0.83
R00017884	Ore-Grade Materials	3.1 Aqua Regia	And tuf. metaseds	Portage	BL-0311	101.5	102.72	1.4	0.022	0.012	8200	20	18	11300	850	28	400	<0.050	36	835	7.3	73	0.0020	37400	0.52
R00017885	Ore-Grade Materials	3.1 Aqua Regia	And tuf. metaseds	Portage	BL-0312	51.51	53.74	1.3	0.22	0.013	15000	48	66	15500	675	14	500	<0.050	38	679	9.3	148	0.0010	18600	1.1
R00017886	Ore-Grade Materials	3.1 Aqua Regia	And tuf. metaseds	Portage	BL-0312	100.58	102.11	1.3	0.039	0.013	9800	18	30	10900	1197	14	400	<0.050	41	642	4.3	104	<0.0010	17000	0.59
R00017887	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	East Extension	BL-0313	21.95	23.47	0.64	0.031	0.0080	2700	17	2.8	11300	891	3.6	300	0.070	28	1026	5.3	14	<0.0010	9100	6.3
R00017888	Ore-Grade Materials	3.1 Aqua Regia	And tuf. metaseds	East Extension	BL-0313	50.9	52.43	0.81	0.071	0.010	5800	8.5	11	5100	1082	15	100	0.23	49	794	9.1	65	<0.0010	16300	3.5
R00017883	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	East Extension	BL-0313	99.67	100.58	2.0	0.079	0.013	17200	16	16	11800	1520	5.3	200	0.36	19	1199	8.7	279	<0.0010	10800	2.5
R00017889	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	East Extension	BL-0312	122.53	124.05	0.95	0.016	0.011	11200	21	6.5	9900	1484	2.6	300	0.22	16	1605	7.7	124	0.0010	3900	3.5
R00017884	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	East Extension	BL-0314	10.97	11.67	1.2	0.083	0.014	3800	13	7.0	7400	1849	3.2	200	0.28	15	1401	19	36	0.0010	22400	3.1
R00017885	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	East Extension	BL-0315	43.28	44.5	0.82	0.035	0.010	3600	12	5.7	8600	748	5.6	300	0.12	31	1009	7.2	22	0.0010	19900	5.4
R00017886	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	East Extension	BL-0315	74.68	76.2	1.2	0.097	0.012	10500	22	13	9400	1093	1.3	200	0.24	42	1466	29	106	<0.0010	2500	3.8
R00017887	Ore-Grade Materials	3.1 Aqua Regia	And tuf. metaseds	East Extension	BL-0315	100.4	101.19	0.86	13	0.048	3500	13	9.8	12300	5845	9.7	200	0.13	26	515	147	34	0.0010	26700	4.8
R00017888	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	East Extension	BL-0315	125.88	127.1	1.4	0.15	0.012	13400	19	20	13600	2675	4.5	200	0.42	20	1204	56	219	0.0010	7500	2.0
R00017889	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	East Extension	BL-0316	29.87	31.39	0.71	0.075	0.0090	4200	19	4.6	6300	1415	1.4	300	0.24	18	1556	9.4	30	<0.0010	7300	2.9
R00017879	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	East Extension	BL-0316	98.45	99.97	0.67	0.063	0.010	2200	19	3.3	15800	1663	1.5	300	0.18	14	1177	3.4	9.8	0.0020	490	1.9
R00017870	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	East Extension	BL-0316	125.58	127.1	1.3	0.082	0.010	3900	15	8.7	14200	1661	3.6	200	0.18	42	1607	9.0	31	0.0020	16600	6.8
R00017904	Mine Rock	3.1 Aqua Regia	VBX	East Extension	BL-0319	10.24	10.67	1.5	0.074	0.018	3400	52	6.2	8200	1558	90	100	0.33	51	492	24	31	0.0040	41300	4.9
R00017905	Mine Rock	3.1 Aqua Regia	VBX	East Extension	BL-0319	44.81	45.72	0.76	0.082	0.0070	3700	27	5.2	22100	1357	0.55	300	<0.050	18	1259	5.0	21	<0.0010	900	1.2
R00017910	Mine Rock	3.1 Aqua Regia	VBX	East Extension	BL-0344	20.54	21.31	1.5	0.017	0.017	18800	29	29	29900	1090	0.53	500	0.070	26	1283	5.1	187	<0.0010	200	4.7
R00017911	Mine Rock	3.1 Aqua Regia	TRA	East Extension	BL-0346	6.4	7.07	1.2	0.12	0.024	2700	27	3.2	13200	1455	192	100	0.16	73	560	480	22	0.0040	60900	8.3
R00017912	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	East Extension	BL-0343	50.17	50.81	1.0	0.092	0.0080	6900	22	13	25200	1070	1.3	200	0.050	22	1331	6.4	65	<0.001	4700	5.4
R00017913	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	BL-0323	93.57	94.49	0.34	0.011	0.026	3000	9.6	29	42000	676	0.33	400	0.050	161	714	1.3	14	<0.0010	100	0.29
R00017914	Mine Rock	3.1 Aqua Regia	TRA	Portage	BL-0323	150.42	150.88	0.080	0.014	0.0080	1200	4.8	26	30300	586	0.89	400	<0.050	75	621	1.7	6.5	<0.0010	100	0.18
R00017915	Mine Rock	3.1 Aqua Regia	TRA	Portage	BL-0323	253.14	254.05	0.78	0.26	0.022	1700	77	3.1	300	102	39	800	0.060	13	892	17	13	0.011	15300	0.31
R00017916	Mine Rock	3.1 Aqua Regia	TRA	Portage	BL-0323	300.26	301.17	1.5	0.021	0.029	24100	144	176	25200	1434	55	700	0.17	79	562	158	302	0.040	23000	0.37
R00017917	Mine Rock	3.1 Aqua Regia	TRA	Portage	BL-0323	400.81	401.73	0.67	0.013	0.026	15000	40	41	17000	1127	16	700	<0.050	29	915	9.4	163	0.0020	22800	0.29
R00017918	Ore-Grade Materials	3.1 Aqua Regia	VBX	East Extension	BL-0326	24.44	24.87	0.71	0.55	0.017	6600	8.3	22	12000	2706	81	200	<0.050	58	1357	335	70	0.0020	51600	7.5
R00017919	Mine Rock	3.1 Aqua Regia	VBX	East Extension	BL-0326	47.91	48.59	1.7	0.025	0.022	22200	27	32	36800	1370	0.17	700	0.060	25	1268	6.1	220	<0.0010	1000	2.2
R00017920	Mine Rock	3.1 Aqua Regia	TRA	East Extension	BL-0326	65.62	66.26	1.0	0.11	0.013	3400	15	4.6	18800	2621	2.8	200	0.29	18	1041	59	24	<0.0010	40900	4.9
R00017921	Mine Rock	3.1 Aqua Regia	VBX	East Extension	BL-0327	10.12	10.82	0.69	0.026	0.022	20200	17	16	15200	1163	1.9	300	0.20	17	1411	5.0	202	<0.0010	7500	3.2
R00017922	Mine Rock	3.1 Aqua Regia	VBX	East Extension	BL-0327	75.71	76.2	1.6	0.084	<0.005	5400	33	7.8	3200	639	1.1	300	0.15	20	1355	37	53	<0.0010	6900	2.5
R00017923	Mine Rock	3.1 Aqua Regia	VBX	East Extension	BL-0331	15.94	16.76	1.3	0.043	0.020	6400	20	9.5	13600	1701	22	200	0.42	38	1026	54	64	0.0040	70500	3.3
R00017925	Ore-Grade Materials	3.1 Aqua Regia	VBX	East Extension	BL-0328	24.69	25.24	1.1	0.037	0.020	14100	19	14	6800	1172	2.0	200	0.28	17	1475	5.2	176	0.0010	800	2.5
R00017926	Mine Rock	3.1 Aqua Regia	VBX	East Extension	BL-0328	50.99	52.06	1.3	0.028	0.011	16000	20	15	8500	1010	0.86	200	0.22	19	1507	5.3	177	<0.0010	6300	5.9
R00017927	Mine Rock	3.1 Aqua Regia	POR	East Extension	BL-0328	71.32	71.99	1.2	0.12	<0.005	2600	23	4.3	900	1581	2.6	200	0.10	6.9	1247	48	15	<0.0010	7500	4.4
R00017928	Mine Rock	3.1 Aqua Regia	VBX	East Extension	BL-0330	37.34	38.1	1.4	0.075	0.018	6500	11	8.1	16900	2829	2.2	300	0.51	31	1251	22	78	<0.0010	49500	6.1
R00017929	Mine Rock	3.1 Aqua Regia	TRA	East Extension	BL-0330	74.49	75.13	0.97	0.17	0.010	4400	9.1	4.8	7400	1202	0.90	300	0.14	108	743	6.7	35	0.0010	12800	3.5
R00017930	Ore-Grade Materials	3.1 Aqua Regia	And tuf. metaseds	Portage	BL-0289	46.85	47.06	1.7	0.055	0.014	12500	20	47	12700	989	7.0	200	0.12	13	945	9.7	100	0.0010	47700	1.4
R00017931	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	East Extension	BL-0333	15	15.64	0.85	0.024	0.013	13100	28	20	15200	1023	1.1	300	0.26	18	1580	3.1	101	<0.0010	900	2.8
R00017932	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	East Extension	BL-0333	40.36	41.06	0.96	0.071	0.010	6100	18	12	10600	1364	1.0	200	0.27	20	1345	4.0	62	<0.0010	3100	3.5
R00017933	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	East Extension	BL-0333	75.74	76.54	0.74	0.067	0.010	3100	17	2.8	2600	1635	2.8	200	0.28	13	1491	16	19	0.0010	11700	6.6
R00017934	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	East Extension	BL-0336	25.15	25.91	1.0	0.10	0.013	4500	20	9.3	10100	2259	22	300	0.38	11	1393	52	33	0.0010	17500	3.0
R00017935	Ore-Grade Materials	3.1 Aqua Regia	And tuf. metaseds	East Extension	BL-0336	50.63	51.33	1.1	0.21	0.026	4100	13	14	15500	1839	1.7	500	0.55	10	1324	19	40	<0.0010	22800	3.0
R00017936	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	East Extension	BL-0336	65.99	66.63	0.85	0.023	0.015	10700	21	15	12900	852	1.2	400	0.26	14						

Table B-6. Elemental Content Results

Sample ID	Classification	Digest Method ^(A)	Final Lithology Group	Zone	Drillhole	From	To	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	
Units						m	m	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
10x Crustal Abundance (Price 1997)						48		0.85	0.85	0.85	0.85	390	200	200	9500	12	840	840	10500	140	140	140	3500	2		
W-007	One-Grade Materials	3.1 Aqua Regia	And tuf. metaseds	Portage	PM-DH-01	48	49	0.93	0.13	0.023	24000	19	90	31100	265	11	400	<0.050	42	1163	10	282	0.015	29700	0.68	
W-008	One-Grade Materials	3.1 Aqua Regia	POR	Portage	PM-DH-02	150	151	2.8	0.14	0.0060	6100	192	29	6200	45	117	100	0.34	12	318	63	75	0.017	12300	2.4	
W-009	One-Grade Materials	3.1 Aqua Regia	POR	Portage	PM-DH-01	198	199	0.86	0.22	0.010	13500	21	112	15900	5139	62	300	<0.050	47	999	13	173	0.016	23200	0.81	
W-010	Mine Rock	3.1 Aqua Regia	TRA	Portage	PM-DH-03	302	303	0.47	0.21	0.021	18000	40	70	22100	339	74	500	<0.050	80	1063	199	0.043	8800	0.47		
W-011	Mine Rock	3.1 Aqua Regia	POR	Portage	PM-DH-02	78	79	1.9	0.39	<0.005	2000	25	2.6	200	21	8.2	300	0.16	4.2	230	25	11	<0.0010	10200	1.2	
W-012	One-Grade Materials	3.1 Aqua Regia	TRA	Portage	PM-DH-03	349	350	1.6	0.58	0.013	14700	37	421	18100	87	348	200	0.070	49	1001	33	204	0.17	70700	0.88	
W-013	One-Grade Materials	3.1 Aqua Regia	VBX	Portage	PM-DH-02	200	201	0.78	0.30	0.021	14600	18	93	17900	141	33	600	<0.050	45	905	9.5	236	0.010	47800	5.3	
W-014	One-Grade Materials	3.1 Aqua Regia	TRA	Portage	PM-DH-03	245	246	1.2	0.28	0.011	22600	58	559	32000	288	57	500	0.05	53	817	39	295	0.034	65200	0.78	
W-015	One-Grade Materials	3.1 Aqua Regia	And tuf. metaseds	Portage	PM-DH-02	299	300	1.4	0.15	0.025	25000	35	425	33300	445	28	200	0.11	60	1231	20	326	0.029	58000	1.1	
W-016	One-Grade Materials	3.1 Aqua Regia	TRA	Portage	SM20-001	5	6	4.3	0.11	0.012	8700	74	17	11000	655	22	100	0.13	20	1407	35	111	<0.0010	11200	2.4	
W-017	One-Grade Materials	3.1 Aqua Regia	POR	Portage	PM-DH-02	249	250	1.8	0.074	<0.0050	6300	34	103	6800	73	83	400	0.90	19	6.7	230	31	93	0.14	9400	0.99
W-018	Mine Rock	3.1 Aqua Regia	VBX	Portage	SM20-001	150	151	1.1	0.40	<0.0050	2400	27	2.4	300	15	44	<100	<0.050	16	327	25	13	0.0020	25100	3.2	
W-019	One-Grade Materials	3.1 Aqua Regia	TRA	Portage	PM-DH-03	51	52	1.4	0.78	0.063	49000	41	21	4800	28	278	<100	<0.050	26	389	248	47	0.18	42300	27	
W-020	Mine Rock	3.1 Aqua Regia	TRA	Portage	SM20-001	254	255	2.0	0.50	0.015	11700	60	36	15000	52	162	100	0.070	28	130	148	148	0.0040	27900	2.8	
W-021	One-Grade Materials	3.1 Aqua Regia	VBX	Portage	PM-DH-03	97	98	2.2	0.25	0.010	9100	32	84	10200	62	115	100	0.12	26	462	51	107	0.025	32100	4.3	
W-022	One-Grade Materials	3.1 Aqua Regia	TRA	Portage	SM20-001	311	312	0.77	0.028	0.0090	7000	22	29	7600	25	6.7	100	<0.050	43	1544	5.8	80	0.0020	14900	0.61	
W-023	One-Grade Materials	3.1 Aqua Regia	TRA	Portage	PM-DH-03	150	151	0.56	0.11	0.011	21800	16	98	28200	181	7.2	300	<0.050	68	1293	11	299	0.015	8800	0.64	
W-024	Mine Rock	3.1 Aqua Regia	VBX	Portage	SM20-002	100	101	2.7	0.13	0.0060	6200	53	9.0	8100	1281	2.4	200	0.21	9.3	894	44	72	<0.0010	5800	2.3	
W-025	One-Grade Materials	3.1 Aqua Regia	TRA	Portage	PM-DH-03	200	201	1.1	0.25	0.017	24000	54	212	31600	198	35	200	<0.050	75	1121	44	317	0.14	21900	0.86	
W-026	One-Grade Materials	3.1 Aqua Regia	TRA	Portage	SM20-002	388	389	0.64	0.075	0.0090	16000	27	53	19600	146	25	200	<0.050	58	1040	12	177	0.021	24500	0.46	
W-027	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SM20-001	348	349	0.55	0.021	0.012	50400	5.8	234	81800	474	8.4	200	<0.050	43	1117	4.1	647	0.0020	2200	0.27	
W-028	One-Grade Materials	3.1 Aqua Regia	VBX	Portage	SM20-002	301	302	2.4	0.14	0.0060	6100	61	32	7800	164	30	100	0.39	5.8	343	162	75	0.0030	300	18	
W-029	Mine Rock	3.1 Aqua Regia	TRA	Portage	SM20-001	100	101	4.6	0.13	0.012	14200	324	66	18500	93	262	100	0.23	38	1828	226	146	0.031	17000	3.8	
W-030	One-Grade Materials	3.1 Aqua Regia	TRA	Portage	SM20-002	263	264	2.1	0.26	0.013	8200	31	32	10000	43	34	100	<0.050	18	374	26	106	0.0010	24200	2.7	
W-031	Mine Rock	3.1 Aqua Regia	VBX	Portage	SM20-001	50	51	2.7	0.55	0.017	19700	4269	130	29400	789	302	200	0.31	34	1076	450	203	0.016	18800	7.7	
W-032	Mine Rock	3.1 Aqua Regia	VBX	Portage	SP11-088	9	10	1.0	0.058	0.0070	6000	24	11	8800	842	22	200	<0.050	55	888	10	67	0.0010	41800	4.1	
W-033	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SGH20-001	108	109	0.11	<0.0050	<0.0050	2200	2.4	14	31400	726	0.45	200	<0.050	76	442	2.3	8.1	<0.0010	900	0.25	
W-034	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP11-088	97	98	0.52	0.015	0.0060	2100	19	3.1	12900	1324	1.5	200	<0.050	22	909	4.5	10	<0.0010	4900	0.36	
W-035	Mine Rock	3.1 Aqua Regia	TRA	Portage	SM20-001	200	201	1.5	0.10	<0.005	2000	34	1.0	200	14	28	<100	<0.050	5.2	90	12	9.8	0.0010	12300	1.6	
W-036	Mine Rock	3.1 Aqua Regia	TRA	Portage	SP11-088	344.5	345	2.0	0.33	0.022	4100	277	61	3700	46	977	300	0.57	9.9	610	383	49	0.37	16400	1.9	
W-037	Mine Rock	3.1 Aqua Regia	VBX	Portage	SM20-002	50	51	2.3	0.088	<0.005	3100	101	8.4	1200	554	26	300	0.11	1.9	342	77	20	0.002	8700	2.7	
W-038	Mine Rock	3.1 Aqua Regia	VBX	Portage	SP11-088	249	250	2.0	0.32	0.014	5100	14	8.3	8800	1113	5.5	300	<0.050	19	508	582	52	<0.0010	25600	17	
W-039	Mine Rock	3.1 Aqua Regia	TRA	Portage	SM20-002	150	151	0.65	0.020	0.0070	4600	32	6.6	15700	1165	0.17	400	<0.050	35	1357	4.8	37	<0.0010	2300	0.87	
W-040	One-Grade Materials	3.1 Aqua Regia	TRA	Portage	SM20-003	401	402	1.1	0.065	0.017	21800	85	387	27900	163	766	200	<0.050	53	941	117	301	0.38	42600	0.83	
W-041	Mine Rock	3.1 Aqua Regia	TRA	Portage	SM20-002	13	14	0.56	0.028	0.018	17500	28	18	32900	1263	2.2	300	<0.050	28	1264	3.6	158	<0.0010	1100	1.0	
W-042	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Camp	SP12-136	24	26	0.15	<0.0050	0.022	1200	6.5	60	26000	1186	0.37	200	<0.050	120	647	0.90	5.8	<0.0010	1100	2.8	
W-043	Mine Rock	3.1 Aqua Regia	VBX	Portage	SM20-002	199	200	2.2	0.43	0.021	5000	1900	34	4200	71	51	100	0.17	20	1130	226	64	0.0050	3600	2.8	
W-044	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP12-151	59.5	61.5	0.25	0.0070	0.015	700	13	41	27400	1516	0.93	200	<0.050	75	1357	6.4	3.4	<0.0010	3400	0.20	
W-045	One-Grade Materials	3.1 Aqua Regia	VBX	Portage	SM20-002	355	356	2.3	0.14	0.011	12600	107	300	18800	150	729	200	0.36	8.5	217	132	185	0.50	13700	1.4	
W-046	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP12-151	98.5	100.5	0.25	0.089	0.0090	1600	9.4	34	19900	2288	4.8	200	<0.050	62	1204	4.6	11	0.0020	4600	0.23	
W-047	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP11-088	150	151	0.83	<0.0050	0.0070	3800	17	5.4	12000	1202	6.0	200	<0.050	26	891	5.7	29	<0.0010	4100	0.78	
W-048	One-Grade Materials	3.1 Aqua Regia	TRA	Portage	SP12-151	147	149	0.86	0.052	0.026	16900	53	91	19600	160	52	400	<0.050	34	903	83	243	0.020	34500	0.71	
W-049	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP11-088	51	52	0.46	<0.0050	0.0070	2500	15	1.7	15700	1105	0.90	200	<0.050	23	823	3.2	14	<0.0010	4900	0.70	
W-050	Mine Rock	3.1 Aqua Regia	TRA	Camp	SP12-135	99	101	0.75	<0.0050	0.020	8400	10	11	21000	1128	0.74	200	0.090	68	1060	3.1	73	0.0010	2700	1.5	
W-051	Mine Rock	3.1 Aqua Regia	POR	Portage	SP11-088	199	200	2.6	<0.0050	<0.005	4600	24	7.8	3400	524	3.0	400	0.11	2.7	268	25	50	<0.0010	4200	0.65	
W-052	Mine Rock	3.1 Aqua Regia	VBX	Camp	SP12-135	42	43.5	1.2	0.030	0.012	9800	20	13	14500	2322	15	200	0.12	96	820	27	74	0.0020	40500	8.1	
W-053	Mine Rock	3.1 Aqua Regia	VBX	Portage	SP11-088	300	301	2.1	0.030	0.0090	9800	43	26	11000	517	33	200	0.070	23	634	72	115	0.0050	24300	1.4	
W-054	Mine Rock	3.1 Aqua Regia	TRA	Camp	SP12-135	128.7	130	1.5	0.021	0.012	10300	35	9.2	17100	1534	23	200	0.14	44	491	76	81	0.0020	25600	2.7	
W-055	One-Grade Materials	3.1 Aqua Regia	And tuf. metaseds	Portage	PM-DH-01	16.5	18	1.1	0.14	0.0060	8800	12	32	8000	35	18	100	<0.050	33	58	9.5	104	0.029	18500	0.81	
W-056	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Camp	SP12-132	117	118.6	1.3	<0.0050	0.0090	8800	16	7.5	7300	525	1.6	200	0.18	33	806	2.5	85	<0.0010	1700	2.1	
W-057	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SGH20-009	17	18	0.43	<0.0050	0.014	1000	13	33													

Table B-2. Elemental Content Results

Sample ID	Classification	Digest Method ^(A)	Final Lithology Group	Zone	Drillhole	From	To	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb
Units						m	m	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
10x Crustal Abundance (Price 1997)						m	m	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
								0.85	--	--	--	390	200	--	9500	12	--	--	840	10500	140	--	--	3500	2
W-082	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP12-120	51	52	0.69	0.0080	0.0060	2200	18	1.6	12000	1172	1.9	200	<0.050	27	860	6.7	10	<0.010	9500	0.27
W-084	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP12-120	150	152	1.1	0.017	0.0090	8100	17	15	17900	1103	4.5	300	<0.050	31	1033	4.7	80	0.0030	7800	0.43
W-086	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP12-120	243	245	1.2	0.028	0.017	14000	37	47	16700	1254	94	400	<0.050	37	893	75	198	0.074	30000	0.45
W-088	Mine Rock	3.1 Aqua Regia	TRA	Portage	SP12-113	400	401	0.97	0.11	0.013	14100	38	71	19600	258	131	400	<0.050	79	1066	39	178	0.075	27200	1.0
W-090	Mine Rock	3.1 Aqua Regia	TRA	Portage	SP12-113	447	448	0.94	0.021	0.010	19900	21	74	22100	443	1.9	300	<0.050	98	975	17	198	<0.010	11300	0.56
W-091	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP12-129	189	191.1	0.38	0.029	0.019	4500	38	46	30100	853	7.4	200	<0.050	208	1924	6.2	40	0.0010	10000	0.37
W-092	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP11-107	198	199	0.42	0.014	0.028	14300	8.7	38	37500	1065	5.6	300	<0.050	113	742	4.0	127	<0.010	9800	1.1
W-094	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP11-107	7	8	0.50	0.0090	0.032	700	11	64	23600	994	1.7	100	<0.050	37	750	3.2	3.4	0.0010	500	0.73
W-096	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP11-107	301	302	0.86	0.022	0.013	12400	26	34	30400	1483	12	200	<0.050	97	330	9.7	129	0.0010	17900	0.64
W-098	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP11-107	339	340	1.0	0.021	0.0080	6600	17	15	17000	1334	9.6	300	<0.050	54	913	9.9	56	<0.010	24200	0.76
W-100	Mine Rock	3.1 Aqua Regia	POR	Portage	SP11-109	20	21	1.0	0.21	<0.0050	3300	31	7.4	18000	749	8.2	200	0.090	7.6	1401	51	24	<0.010	6200	2.9
W-102	Mine Rock	3.1 Aqua Regia	POR	Portage	SP11-109	38	39	2.3	0.089	<0.0050	9500	36	17	6300	516	0.18	300	0.12	6.5	1452	18	59	<0.010	600	1.8
W-103	Mine Rock	3.1 Aqua Regia	TRA	Portage	SP12-123	477	479	0.57	0.048	0.0080	7900	22	45	14200	343	14	200	<0.050	91	1130	12	76	0.0040	17300	0.63
W-105	Mine Rock	3.1 Aqua Regia	TRA	Portage	SP12-123	501	503	0.72	0.010	0.0080	6700	22	27	6500	1384	6.9	300	<0.050	93	1048	7.8	73	<0.010	13200	0.77
W-107	Mine Rock	3.1 Aqua Regia	VBX	Portage	SP12-123	351	353	1.7	0.082	0.0060	8900	46	25	8500	109	20	100	0.080	26	830	27	113	0.0040	20800	1.2
W-109	Mine Rock	3.1 Aqua Regia	VBX	Portage	SP12-123	393	394	1.8	0.16	0.010	11600	197	95	14400	58	113	200	0.10	29	570	65	174	0.0080	27700	1.5
W-111	Mine Rock	3.1 Aqua Regia	TRA	Portage	SP12-123	519	521	0.61	0.011	0.014	16400	20	67	20000	713	5.8	400	<0.050	56	862	7.7	166	<0.010	2900	0.50
W-112	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP13-221	73	75	0.51	0.0070	0.010	1700	13	9.4	16400	1256	0.99	200	<0.050	39	835	1.7	8.0	<0.010	300	0.77
W-113	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP12-113	7	8	0.62	0.050	0.0090	5400	23	5.2	9500	1056	2.2	200	0.28	16	1444	3.5	43	<0.010	1200	4.9
W-115	Mine Rock	3.1 Aqua Regia	POR	Portage	SP12-120	207	209	1.8	0.013	0.010	6400	36	19	10600	1260	34	400	0.050	28	798	21	98	0.0030	19800	0.76
W-117	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP12-120	105	107	0.51	0.015	0.014	1200	14	27	21000	709	3.4	200	<0.050	48	910	6.0	8.8	<0.010	3200	0.80
W-119	Mine Rock	3.1 Aqua Regia	POR	Portage	SP12-113	51	52	1.6	0.031	<0.0050	3500	30	8.7	5600	595	0.85	400	0.080	6.9	1420	36	29	<0.010	3800	1.6
W-121	Mine Rock	3.1 Aqua Regia	TRA	Portage	SP12-113	103	104	1.1	0.015	0.013	8900	78	14	25500	1566	20	200	0.23	47	707	34	101	0.0020	13600	4.4
W-123	Mine Rock	3.1 Aqua Regia	VBX	Portage	SP12-113	201	202	1.3	1.6	0.010	11700	21	30	26500	2209	3.1	300	<0.050	54	706	38	115	0.0010	22100	55
W-124	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SG13-202	49	51	0.35	0.0090	0.022	800	13	44	21500	360	0.57	200	<0.050	75	1017	4.6	3.1	<0.010	500	0.58
W-125	Mine Rock	3.1 Aqua Regia	POR	Portage	SP12-113	300	301	2.1	0.093	0.0060	11300	130	72	11700	52	87	100	0.070	26	755	55	144	0.010	28700	1.6
W-126	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SG13-202	94	96	0.52	0.011	0.010	3100	20	26	21100	1579	1.6	200	<0.050	86	955	4.5	26	<0.010	900	1.0
W-127	Mine Rock	3.1 Aqua Regia	POR	Portage	SP12-113	250	251	2.4	0.075	0.013	13400	78	112	15300	77	30	100	0.080	26	305	37	159	0.0030	22100	1.4
W-128	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SG13-200	98	100	0.12	0.024	0.0070	1700	3.6	30	30500	798	0.69	200	0.080	62	672	3.7	18	<0.010	1200	1.2
W-129	Mine Rock	3.1 Aqua Regia	LAM	Portage	SP12-113	340	341	0.41	0.012	0.067	18600	8.8	112	62800	442	0.37	200	0.12	390	633	5.8	198	<0.010	500	0.87
W-130	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SG13-200	50	52	0.24	0.016	0.020	700	8.1	25	27600	948	0.62	200	0.050	40	1021	7.3	6.7	<0.010	1500	1.3
W-131	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP11-107	103	104	0.61	<0.0050	0.015	1000	121	47	18300	817	3.4	100	<0.050	52	530	4.9	4.2	0.0020	700	1.4
W-132	One-Grade Materials	3.1 Aqua Regia	VBX	Portage	SG13-201	185	186	1.1	0.28	0.034	18000	28	104	20200	3076	42	400	<0.050	40	904	21	244	0.012	28100	0.40
W-133	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP11-107	46	47	0.35	0.024	0.011	1700	8.0	40	24700	1035	3.9	100	<0.050	46	386	2.5	9.4	<0.010	6900	1.6
W-134	Mine Rock	3.1 Aqua Regia	VBX	Portage	SG13-200	182	184	0.76	0.066	0.018	20000	29	44	19800	396	15	500	<0.050	69	1073	16	203	0.0070	12300	0.44
W-135	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP11-107	150	151	1.2	0.025	0.018	9100	53	29	27300	793	6.7	300	0.13	89	542	7.5	78	0.0020	18000	1.3
W-137	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP11-107	249	250	1.3	0.16	0.019	16400	88	50	26500	1114	35	200	0.17	46	818	10	143	0.0030	48300	0.95
W-139	Mine Rock	3.1 Aqua Regia	VBX	Portage	SP12-113	150	151	1.2	2.2	0.089	4000	32	6.0	10000	1724	47	200	0.070	22	1336	990	39	<0.010	68800	6.8
W-141	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP11-109	5	6	3.1	0.060	0.0060	4900	39	12	6400	724	2.4	300	0.65	20	750	14	46	<0.010	3700	2.4
W-150	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP13-219	96	98	0.77	0.12	0.068	22400	21	56	20600	1313	4.2	400	<0.050	21	1492	15	183	0.0040	17500	0.93
W-151	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP13-221	127	129	0.28	0.096	0.0060	1400	8.8	19	16700	1600	3.7	200	<0.050	72	632	4.3	11	0.0020	6200	1.4
W-162	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	PM-DH-04	296	297	0.55	0.14	0.010	6400	5.1	8.7	7800	3377	11	200	<0.050	120	555	9.3	59	0.0020	26700	3.1
W-163	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SG13-201	51	53	0.49	0.073	0.011	2900	12	19	14900	2315	63	200	<0.050	56	1245	47	31	0.0020	13800	0.54
W-164	One-Grade Materials	3.1 Aqua Regia	VBX	Portage	PM-DH-04	249	250	2.0	0.25	0.018	11200	52	33	8800	913	42	200	0.080	17	1188	35	109	0.0070	62000	2.5
W-165	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SG13-202	151	153	0.66	0.049	0.010	6000	28	20	20700	1950	34	200	<0.050	72	1256	9.6	52	0.0050	11800	0.63
W-166	One-Grade Materials	3.1 Aqua Regia	And tuf. metaseds	Portage	PM-DH-04	200	201	0.96	0.081	0.022	33900	22	191	38400	606	22	300	<0.050	123	338	22	355	0.0090	48300	2.2
W-167	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SG13-202	199	201	0.97	0.031	0.013	7200	13	26	19600	422	2.2	200	<0.050	81	1157	71	56	<0.010	4200	0.48
W-168	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	PM-DH-04	55	56	0.42	0.020	0.017	900	7.2	56	31600	1092	1.7	100	<0.050	54	431	3.7	4.4	<0.010	13100	0.70
W-169	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SG13-201	99	101	0.27	0.020	0.012	1200	7.4	36	30200	960	6.4	100	<0.050	95	637	5.8	8.4	<0.010	7500	0.14
W-170	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	PM-DH-04	100	101	0.38	0.0070	0.011															

Table B-6. Elemental Content Results

Sample ID	Classification	Digest Method ^(A)	Final Lithology Group	Zone	Drillhole	From	To	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb
Units						m	m	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
10x Crustal Abundance (Price 1997)						m	m	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
						100	102	0.53	0.043	0.012	11400	5.1	39	12100	4143	7.4	100	<0.050	153	649	4.5	127	0.0010	35400	1.9
W-219	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SG13-206	100	102	0.53	0.043	0.012	11400	5.1	39	12100	4143	7.4	100	<0.050	153	649	4.5	127	0.0010	35400	1.9
W-220	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Camp	SP11-030	12	13	0.76	0.024	0.013	7000	11	16	20600	1330	5.6	200	0.25	27	840	4.2	82	<0.0010	48400	2.6
W-221	Mine Rock	3.1 Aqua Regia	POR	Portage	SG13-205	97	99	3.4	0.44	0.0080	6900	22	18	8300	1078	71	300	0.15	5.0	298	307	80	0.0060	12400	8.8
W-222	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Camp	SP11-030	150	151	0.32	0.017	0.016	1200	10	40	24400	700	0.60	100	<0.050	101	457	3.6	7.2	<0.001	200	0.23
W-223	Mine Rock	3.1 Aqua Regia	POR	Portage	SG13-206	201	203	2.7	0.12	0.0070	3500	22	7.2	2100	543	5.0	400	0.10	5.1	306	26	28	0.0010	7800	3.0
W-224	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Camp	SP11-030	100	101	0.24	0.039	0.011	1500	6.1	41	26800	886	1.0	200	<0.050	117	473	5.5	7.8	<0.0010	2100	0.31
W-225	Ore-Grade Materials	3.1 Aqua Regia	VBX	Portage	SG13-205	28	30	1.3	0.056	0.010	9400	18	23	9200	1946	23	400	<0.050	26	1090	252	125	0.0020	18800	0.91
W-226	Ore-Grade Materials	3.1 Aqua Regia	TRA	Portage	SP11-050	150	151	0.94	0.016	0.013	11900	19	35	12200	1089	29	500	<0.050	40	1039	16	148	0.0050	13800	0.18
W-227	Mine Rock	3.1 Aqua Regia	POR	Portage	SG13-204	52	54	1.3	0.12	<0.0050	1800	38	2.8	200	53	4.3	200	<0.050	2.9	56	43	9.3	<0.0010	3000	1.5
W-228	Mine Rock	3.1 Aqua Regia	TRA	Portage	SP11-050	201	202	1.9	0.019	0.010	10000	36	50	13300	1128	77	300	0.060	29	1324	177	133	0.039	21500	0.42
W-229	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SG13-203	151	153	0.45	0.0080	0.013	2700	23	7.5	15900	1066	1.6	200	0.15	35	1327	2.6	21	<0.0010	1000	1.7
W-230	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP11-060	100	101	0.45	0.0080	0.0070	2000	8.9	12	18900	499	4.7	300	<0.050	50	596	2.0	22	0.0070	2800	0.36
W-231	Mine Rock	3.1 Aqua Regia	TRA	Portage	SP12-180	198	200	0.25	0.0060	0.012	14700	6.5	37	33300	1581	17	400	<0.050	66	1330	7.9	129	<0.0010	2000	0.52
W-232	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP11-050	9	10	0.72	0.012	0.021	1600	19	23	27900	814	5.9	200	<0.050	50	1009	3.3	16	<0.0010	8400	0.43
W-233	Mine Rock	3.1 Aqua Regia	TRA	Portage	SP12-180	56.5	57.9	0.52	0.018	0.017	4700	12	23	24500	1813	0.32	200	<0.050	38	877	10	87	<0.0010	<10000	0.70
W-234	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP11-050	51	52	0.37	0.019	0.026	2100	13	26	34300	1090	2.2	200	<0.050	107	676	6.5	26	<0.0010	2600	0.18
W-235	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP12-174	102	104	0.28	0.017	0.019	700	11	36	29700	748	0.77	200	<0.050	100	901	4.3	3.3	<0.0010	3200	0.34
W-236	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP12-180	102	104	0.44	0.054	0.011	1500	11	29	28000	575	1.6	200	<0.050	97	706	14	19	0.0040	3400	0.34
W-237	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP12-174	54	56	0.32	0.010	0.012	800	12	31	17400	771	0.78	200	<0.050	56	886	3.8	3.5	<0.0010	3500	0.41
W-238	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP12-180	150	152	0.65	0.57	0.020	12400	15	43	32500	1040	6.9	200	<0.050	152	754	22	124	0.0020	12900	0.30
W-239	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP12-174	150	152	0.69	0.027	0.022	9700	20	39	29500	725	2.7	200	0.060	81	878	5.2	87	<0.0010	6700	0.41
W-240	Mine Rock	3.1 Aqua Regia	TRA	Portage	SP12-185	99	101	0.67	0.016	0.0090	2600	18	3.8	14700	674	10	400	<0.050	39	781	4.3	17	<0.0010	4700	0.33
W-241	Mine Rock	3.1 Aqua Regia	TRA	East Extension	SP11-067	79	80	1.6	0.33	0.011	15000	32	20	24600	1149	0.080	200	0.13	26	1243	4.8	147	<0.0010	<10000	1.4
W-243	Mine Rock	3.1 Aqua Regia	TRA	East Extension	SP11-067	59	60	1.8	0.015	0.015	20400	31	32	30700	1013	0.10	200	0.090	28	1209	3.7	239	<0.0010	100	1.2
W-245	Mine Rock	3.1 Aqua Regia	TRA	East Extension	SP11-067	70	71	1.4	0.0060	0.013	20500	31	28	30300	1160	0.070	200	0.080	27	1153	4.1	192	<0.0010	100	1.7
W-247	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP11-055	22	23	1.0	0.063	0.056	14000	18	69	22800	1111	12	300	0.060	55	694	15	181	0.0030	30500	0.50
W-249	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP11-064	199	200	0.37	0.020	0.012	1200	13	34	20800	877	0.61	100	<0.050	80	735	4.4	5.3	<0.0010	1700	0.36
W-251	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP11-064	298	299	0.58	<0.0050	0.016	2500	16	33	22900	763	1.9	200	<0.050	75	787	2.9	21	<0.0010	2400	0.45
W-253	Ore-Grade Materials	3.1 Aqua Regia	And tuf. metaseds	Camp	SP11-030	50	51	1.6	0.10	0.011	10900	32	50	16300	916	19	200	0.070	33	694	26	87	0.0030	65400	3.5
W-254	Mine Rock	3.1 Aqua Regia	TRA	Portage	SGH20-006	145	146	0.44	0.011	0.012	2500	11	28	24500	575	2.0	200	<0.050	87	783	4.2	21	0.0010	4400	0.18
W-256	Mine Rock	3.1 Aqua Regia	TRA	Portage	SGH20-007	17	18	1.8	0.024	<0.0050	5100	41	13	3800	436	0.55	200	0.16	7.4	1382	31	40	<0.001	3400	1.7
W-261	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP11-064	4	5	0.41	0.017	0.014	1200	14	32	21400	791	0.55	100	<0.050	85	856	5.3	4.3	<0.001	300	0.17
W-262	Mine Rock	3.1 Aqua Regia	POR	Portage	SM20-003	107	108	3.9	0.072	0.011	10000	177	34	12100	1521	4.1	200	0.20	29	985	288	114	<0.001	20400	1.8
W-263	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SP12-174	204	206	0.59	0.059	0.025	5900	24	25	22900	805	1.7	200	0.10	56	1099	12	48	<0.001	10700	0.41
W-264	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SGH20-009	74	75	0.68	0.013	0.028	1000	14	26	22800	615	1.5	600	0.050	41	741	3.4	6.9	0.0010	1800	0.33
W-265	Mine Rock	3.1 Aqua Regia	VBX	Portage	SP12-185	147	149	0.60	<0.0050	0.0080	1600	16	5.7	13000	1008	5.5	300	<0.050	29	849	4.0	8.3	<0.0010	16000	0.50
W-266	Ore-Grade Materials	3.1 Aqua Regia	TRA	Portage	SM20-003	298	299	1.1	0.11	0.024	28400	29	535	32100	1873	36	200	<0.050	48	969	21	277	0.028	33600	0.62
W-267	Mine Rock	3.1 Aqua Regia	TRA	Portage	SP12-185	51	53	0.61	0.010	0.0060	3300	16	5.4	14500	948	3.6	200	<0.050	47	695	3.1	23	<0.0010	3900	0.39
W-268	Ore-Grade Materials	3.1 Aqua Regia	TRA	Portage	SM20-003	356	357	1.9	0.067	0.023	20900	57	380	25200	180	120	200	0.080	38	1129	109	220	0.032	74700	0.91
W-269	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SG13-206	175	177	0.33	0.016	0.0070	3600	6.3	5.6	15000	1684	20	<100	<0.050	71	344	3.4	25	0.0010	28600	0.85
W-270	Ore-Grade Materials	3.1 Aqua Regia	POR	Portage	SM20-003	254	255	1.7	0.11	0.023	16400	63	89	100	10	58	930	53	218	0.024	4200	0.20	<0.0010	3000	0.70
W-271	Mine Rock	3.1 Aqua Regia	TRA	Portage	SP12-185	9	11	0.71	0.012	0.015	5300	16	13	17800	1066	4.0	500	<0.050	38	788	9.2	45	<0.0010	4400	0.23
W-272	Mine Rock	3.1 Aqua Regia	TRA	Portage	SGH20-006	304	305	1.6	0.71	0.021	8400	60	41	7900	855	136	100	0.070	39	659	1264	102	0.077	53900	2.6
W-273	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Camp	SP11-030	199	200	0.50	0.095	0.025	4600	9.7	45	29600	801	2.0	200	0.050	119	346	22	33	0.0020	19600	0.70
W-274	Mine Rock	3.1 Aqua Regia	TRA	Portage	SGH20-006	352	353	1.3	0.026	0.013	10800	24	28	10200	734	19	300	<0.050	29	770	40	143	0.014	3000	0.26
W-276	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SGH20-001	43	44	0.10	0.0090	<0.0050	8900	2.6	27	35600	710	0.34	200	<0.050	144	411	0.60	32	<0.0010	300	0.13
W-278	Mine Rock	3.1 Aqua Regia	TRA	Portage	SGH20-006	17	18	0.79	0.071	0.014	6700	16	28	15400	1700	17	300	0.19	32	814	32	64	0.0010	33800	2.3
W-280	Mine Rock	3.1 Aqua Regia	TRA	Portage	SGH20-006	110	111	0.71	0.043	0.011	3900	14	5.3	14800	1993	12	400	<0.050	50	638	47	30	0.0010	36500	1.1
W-283	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	Portage	SGH20-009	29	30	0.40	0.049	0.012	1100	12	25	16100	911	3.6	200	<0.050	76	637	5.3	4.1	<0.0010	11400	

Table B-6. Elemental Content Results

Sample ID	Classification	Digest Method ^(A)	Final Lithology Group	Zone	Drillhole	From	To	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb
Units						m	m	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
10x Crustal Abundance (Price 1997)						m	m	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
						34	35	--	0.85	--	--	390	200	--	9500	12	--	840	10500	140	--	--	--	3500	2
M112041	Mine Rock	3.1 Aqua Regia	TRA	East Extension	SM21-001	71	72	0.52	0.16	0.0050	2800	30	2.7	7200	745	0.65	300	0.050	8.2	1389	21	17	<0.0010	9500	5.0
M112065	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	East Extension	SM21-001	65	66	0.72	0.052	0.023	23400	2.2	30	64300	3875	2.1	200	0.050	404	371	8.2	203	<0.0010	9600	6.5
M112057	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	East Extension	SM21-001	65	66	0.72	0.052	0.017	19100	25	23	34100	1273	0.49	400	0.070	22	1220	5.6	188	<0.0010	700	2.9
M112061	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	East Extension	SM21-001	59.5	61	2.0	0.089	0.03	17400	27	24	32000	1435	0.23	300	0.060	22	1252	4.5	193	<0.0010	400	2.7
M112068	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	East Extension	SM21-001	74	75	0.45	0.039	0.028	21800	29	28	84400	3045	1.6	200	0.050	498	374	5.4	182	<0.0010	4800	2.7
M112074	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	East Extension	SM21-001	79	80	0.36	0.023	0.025	5500	3.9	25	80300	1857	3.5	<100	0.050	475	385	5.9	51	<0.0010	17700	3.6
M112078	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	East Extension	SM21-001	83	84.2	0.85	0.037	0.025	26700	3.5	27	51700	1776	0.71	300	0.050	195	556	8.9	244	<0.0010	12100	3.3
M112086	Mine Rock	3.1 Aqua Regia	TRA	East Extension	SM21-001	89	90	2.6	0.083	0.0050	4700	25	5.1	9200	1164	1.6	400	0.14	17	616	30	46	<0.0010	7000	4.1
M112089	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	East Extension	SM21-002	4	5.4	0.68	0.028	0.0090	9300	27	8.4	6500	1153	3.5	200	0.24	19	946	4.6	86	<0.0010	1500	5.8
M112092	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	East Extension	SM21-002	9	10	0.80	0.056	0.0090	6100	14	3.7	5200	1056	6.0	100	0.26	52	1397	7.2	59	<0.0010	19400	7.2
M112105	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	East Extension	SM21-002	21	22	0.40	0.020	0.013	18300	21	13	18800	1009	1.2	200	0.14	28	1416	4.8	159	<0.0010	1600	5.0
M112103	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	East Extension	SM21-002	19	20	0.23	0.021	0.013	14600	24	11	15000	863	0.71	200	0.13	30	1555	4.8	133	<0.0010	1400	5.3
M112108	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	East Extension	SM21-002	22	24	0.84	0.019	0.013	12000	19	9.3	14700	800	0.62	300	0.12	19	1166	5.0	107	<0.0010	3200	6.2
M112119	Mine Rock	3.1 Aqua Regia	TRA	East Extension	SM21-002	31	32	1.5	0.092	<0.0050	3700	24	6.0	14000	1318	0.48	200	0.070	9.0	1183	50	30	<0.0010	4800	7.7
M112122	Mine Rock	3.1 Aqua Regia	TRA	East Extension	SM21-002	34	35	1.5	0.36	0.0060	4100	26	6.5	7100	1194	2.0	200	0.070	6.9	1227	39	33	<0.0010	5800	6.3
M112128	Mine Rock	3.1 Aqua Regia	TRA	East Extension	SM21-002	39	40	2.4	0.10	0.0070	5500	29	12	9600	802	1.5	200	0.11	5.3	1225	18	57	<0.0010	2300	4.4
M112133	Mine Rock	3.1 Aqua Regia	TRA	East Extension	SM21-002	44	45	1.8	0.088	<0.0050	4000	27	8.9	10700	1352	2.9	200	0.070	9.7	1161	35	29	<0.0010	7000	12
M112139	Mine Rock	3.1 Aqua Regia	And tuf. metaseds	East Extension	SM21-002	49	50	0.46	0.0060	0.020	23800	27	20	35200	1133	0.12	300	0.050	27	1233	5.7	239	<0.0010	400	1.7
M112149	Mine Rock	3.1 Aqua Regia	TRA	East Extension	SM21-002	61	62	0.86	0.065	<0.0050	5100	33	12	7700	1633	1.6	200	0.080	8.8	1348	22	41	<0.0010	5600	5.6
M112153	Mine Rock	3.1 Aqua Regia	TRA	East Extension	SM21-002	65	66	1.1	0.11	<0.0050	4100	22	7.2	5800	1159	2.2	200	0.050	9.0	1315	44	29	<0.0010	9300	5.8
M112158	Mine Rock	3.1 Aqua Regia	TRA	East Extension	SM21-002	69	70	1.8	0.086	0.0050	3900	29	6.5	9600	1700	0.46	200	0.050	13	1307	23	33	<0.0010	3200	4.0
M112163	Mine Rock	3.1 Aqua Regia	TRA	East Extension	SM21-002	74	75	1.4	0.076	<0.0050	4200	25	8.5	6700	1629	1.5	200	0.070	9.3	1304	27	37	<0.0010	6200	4.9
ABA-071	Mine Rock	4-Acid	And tuf. metaseds	East Extension	BL-0013	2.44	3.66	3.6	0.10	<0.048	25200	36	25	29400	1240	0.44	35700	4.4	24	1280	6.8	182	<0.0010	400	6.1
ABA-072	Mine Rock	4-Acid	And tuf. metaseds	East Extension	BL-0013	60.96	62.18	3.0	0.030	<0.052	35600	31	27	32900	1310	0.19	27500	3.5	35	1180	11	242	<0.0010	1200	4.4
ABA-070	Mine Rock	4-Acid	POR	East Extension	BL-0013	120.4	121.62	5.1	0.15	<0.100	62300	16	18	3700	1580	3.0	18900	4.4	15	560	46	161	<0.0020	11000	3.5
ABA-078	Mine Rock	4-Acid	And tuf. metaseds	East Extension	BL-0014	2.74	4.27	5.0	0.11	<0.051	56100	36	23	16600	1560	4.0	10000	11	22	1180	27	165	<0.0020	14500	4.0
ABA-079	Mine Rock	4-Acid	VBX	East Extension	BL-0014	50.9	52.43	3.6	0.090	<0.058	62400	13	42	9900	895	6.6	2200	7.5	41	920	217	173	<0.0020	24600	8.0
ABA-080	Mine Rock	4-Acid	VBX	East Extension	BL-0014	98.76	100.28	4.9	0.22	<0.051	55200	34	27	17500	3900	3.1	1800	12	22	1330	36	211	<0.0020	8400	6.5
ABA-017	Mine Rock	4-Acid	POR	East Extension	BL-0054	50.29	51.42	3.7	0.10	<0.021	47000	55	26	11900	1320	3.1	3100	10	21	780	74	115	<0.0010	6800	4.4
ABA-015	Mine Rock	4-Acid	And tuf. metaseds	East Extension	BL-0054	99.67	101.35	1.2	0.010	<0.038	17800	5.2	50	49400	1020	0.87	18500	2.0	264	460	7.9	88	<0.0010	1300	1.7
ABA-021	Mine Rock	4-Acid	And tuf. metaseds	East Extension	BL-0054	157.95	159.41	1.8	0.060	<0.043	20100	9.4	37	30100	1210	3.3	16100	1.9	146	430	41	118	<0.0010	30100	2.1
ABA-019	Mine Rock	4-Acid	And tuf. metaseds	East Extension	BL-0054	216.26	217.11	3.0	0.050	<0.047	19800	25	24	24900	1150	8.1	28200	6.6	77	560	18	131	<0.0020	33300	5.4
ABA-056	Mine Rock	4-Acid	And tuf. metaseds	East Extension	BL-0114	50.29	51.82	5.7	0.020	<0.056	58500	35	18	12800	2330	23	4000	10	64	810	11	347	<0.0020	11700	11
ABA-054	Mine Rock	4-Acid	POR	East Extension	BL-0114	158.5	160.02	6.6	0.15	<0.022	70100	26	29	9000	1550	1.7	6900	5.9	9.8	1210	110	133	<0.0020	4900	7.2
ABA-055	Mine Rock	4-Acid	POR	East Extension	BL-0114	217.93	218.85	5.4	0.30	<0.010	45700	81	52	4500	634	55	5200	5.5	3.0	300	196	119	<0.0010	7600	4.4
ABA-036	Mine Rock	4-Acid	VBX	East Extension	BL-0162	49.68	51.21	4.2	0.050	<0.032	42200	59	130	14200	987	12	1300	5.4	31	570	112	154	<0.0010	15700	4.4
ABA-033	Mine Rock	4-Acid	And tuf. metaseds	East Extension	BL-0223	2.59	3.66	3.9	0.32	<0.040	48800	25	12	22100	3020	8.3	11200	7.0	18	1150	72	128	<0.0010	21000	6.7
ABA-043	Ore-Grade Materials	4-Acid	And tuf. metaseds	East Extension	BL-0223	49.38	50.9	3.1	0.040	<0.048	41800	29	45	32800	1380	0.87	8000	4.0	53	1070	10	273	<0.0010	2600	5.0
ABA-037	Ore-Grade Materials	4-Acid	VBX	East Extension	BL-0223	99.06	100.58	5.0	0.13	<0.032	40600	21	33	5400	1360	5.9	18500	4.5	34	580	56	122	<0.0010	21200	5.2
ABA-042	Mine Rock	4-Acid	And tuf. metaseds	East Extension	BL-0223	157.58	160.58	4.5	0.020	<0.050	30900	21	23	14900	934	0.99	20200	9.5	33	1290	8.7	132	<0.0010	3400	4.6
ABA-044	Mine Rock	4-Acid	POR	East Extension	BL-0223	218.85	219.87	6.0	0.19	<0.014	48300	12	27	4200	913	3.2	18100	5.1	6.6	620	86	105	<0.0020	5800	4.0
ABA-034	Mine Rock	4-Acid	POR	East Extension	BL-0223	277.67	279.2	6.0	0.040	<0.015	56700	9.3	26	2700	407	0.40	24800	6.4	4.1	550	41	145	<0.0010	600	4.2
ABA-035	Mine Rock	4-Acid	And tuf. metaseds	East Extension	BL-0223	343.2	344.06	4.5	0.060	<0.064	27300	25	17	9500	1680	14	29900	9.6	16	1320	14	163	<0.0020	15600	5.7
ABA-004	Mine Rock	4-Acid	POR	East Extension	BL-0246	41.15	42.21	7.3	0.45	<0.023	55800	28	77	8700	1400	34	2300	6.0	12	1360	198	127	<0.0020	8100	4.8
ABA-003	Mine Rock	4-Acid	And tuf. metaseds	East Extension	BL-0266	1.22	2.62	2.4	0.27	<0.036	23100	41	19	30000	1520	74	2750	2.9	56	910	116	126	<0.0040	11200	4.4
ABA-002	Mine Rock	4-Acid	And tuf. metaseds	East Extension	BL-0266	61.57	62.79	5.5	0.010	<0.060	33300	27	27	9300	1140	1.1	11100	12	26	1440	9.8	189	<0.0010	700	2.7
ABA-001	Mine Rock	4-Acid	And tuf. metaseds	East Extension	BL-0266	106.68	107.9	3.9	0.030	<0.059	41300	16	25	9400	942	1.8	22800	8.0	32	960	7.9	197	<0.0010	2800	4.6
ABA-067	Mine Rock	4-Acid	And tuf. metaseds	East Extension	BL-0370	60.56	61.39	4.8	0.030	<0.049	46600	20	20	10300	1250	1.4	19000	9.5	43	1240	17	255	<0.0010	3700	5.5
ABA-068	Mine Rock	4-Acid	And tuf. metaseds	East Extension	BL-0370	118.87	119.91	6.9	0.020	<0.059	64300	45	23	7800	1240	24	5500	7.5	21	1280	20	166	<0		

Table B-6. Elemental Content Results

Sample ID	Classification	Digest Method ^(A)	Final Lithology Group	Zone	Drillhole	From	To	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb
Units						m	m	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
10x Crustal Abundance (Price 1997)						m	m	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
								0.85	--	--	--	390	200	--	9500	12	--	--	840	10500	140	--	--	3500	2
ABA-076	Mine Rock	4-Acid	And tuf. metaseds	Camp	BL-0288	59.47	60.2	2.1	0.020	<0.056	12200	10	55	29800	995	0.47	13100	2.6	61	480	6.7	77	<0.0010	13800	1.8
ABA-077	Ore-Grade Materials	4-Acid	And tuf. metaseds	Camp	BL-0288	101.5	102.5	2.4	0.030	<0.063	9100	17	40	28800	1160	8.4	13000	6.2	55	640	4.5	47	<0.0030	4100	2.7
ABA-078	Ore-Grade Materials	4-Acid	POR	Portage	BL-0289	2.93	3.08	2.9	0.15	<0.065	23900	15	25	20200	4480	5.9	9900	3.5	14	870	22	122	<0.0030	57300	7.2
ABA-079	Mine Rock	4-Acid	POR	Portage	BL-0288	23.87	24.08	5.2	0.020	<0.073	23100	16	23	14200	1700	2.5	22100	12	7.4	1960	8.3	143	<0.0020	21700	3.0
ABA-074	Ore-Grade Materials	4-Acid	POR	Portage	BL-0289	47.12	47.27	4.6	0.050	<0.077	37000	21	86	17400	11800	2.0	5000	4.7	13	1100	8.9	228	<0.0020	39000	4.3
ABA-081	Mine Rock	4-Acid	And tuf. metaseds	Camp	BL-0302	2.59	2.77	3.3	0.040	<0.068	28600	16	21	25400	1550	4.8	17200	6.9	19	770	6.2	161	<0.0020	20600	5.4
ABA-082	Mine Rock	4-Acid	And tuf. metaseds	Camp	BL-0302	23.78	24.7	3.8	0.020	<0.089	36900	16	32	11700	1540	5.0	4700	9.1	20	840	6.2	226	<0.0020	17700	6.5
ABA-083	Mine Rock	4-Acid	And tuf. metaseds	Camp	BL-0302	46.63	47.55	2.7	<0.0050	<0.059	26800	12	14	20200	870	0.83	17700	6.7	47	620	2.7	158	<0.0020	500	3.5
ABA-059	Mine Rock	4-Acid	And tuf. metaseds	Camp	BL-0307	1.22	2.41	3.0	0.010	<0.050	19000	9.2	40	11900	983	1.3	14400	6.1	81	600	4.3	67	<0.0010	1000	2.9
ABA-060	Mine Rock	4-Acid	And tuf. metaseds	Camp	BL-0307	41.45	42.15	3.5	0.010	<0.041	22300	28	40	12000	11600	3.0	19300	5.8	36	590	7.7	113	<0.0010	9300	3.4
ABA-061	Mine Rock	4-Acid	And tuf. metaseds	Camp	BL-0307	79.8	80.1	3.8	0.020	<0.067	14100	15	40	23000	1180	1.4	9600	7.5	27	770	5.6	64	<0.0020	6000	1.2
ABA-028	Mine Rock	4-Acid	And tuf. metaseds	Camp	BL-0354	53.95	55.14	2.3	0.010	<0.068	28500	8.3	29	19100	1470	0.45	23700	5.7	104	900	5.5	113	<0.0010	3000	6.3
ABA-029	Mine Rock	4-Acid	And tuf. metaseds	Camp	BL-0354	162.76	163.69	4.5	0.38	<0.081	28200	49	26	16900	2040	7.3	10500	9.6	90	920	16	142	<0.0040	17200	6.6
ABA-030	Mine Rock	4-Acid	And tuf. metaseds	Camp	BL-0354	221.41	221.83	1.8	0.040	<0.057	4500	9.9	38	32600	855	0.28	21700	5.0	43	500	2.0	20	<0.0010	600	2.4
ABA-115	Mine Rock	4-Acid	TRA	Camp	SP10-023	219	220	3.9	0.10	<0.048	20700	17	27	17400	748	0.75	18400	8.6	27	650	4.2	63	<0.0010	200	1.5
ABA-112	Mine Rock	4-Acid	TRA	Camp	SP10-023	279	280	1.3	0.10	<0.055	10400	4.7	33	33800	4740	1.4	18000	1.7	101	300	18	49	<0.0020	4100	7.5
ABA-113	Mine Rock	4-Acid	TRA	Camp	SP11-090	159	160	3.1	0.010	<0.063	21400	19	16	16300	1030	1.7	15600	7.1	24	780	8.4	109	<0.0010	1700	4.2
ABA-114	Mine Rock	4-Acid	And tuf. metaseds	Camp	SP11-090	204	205	1.6	0.050	<0.046	16700	5.2	44	37100	1580	2.0	19000	2.6	96	420	28	38	<0.0020	10600	2.6
ABA-098	Mine Rock	4-Acid	TRA	Portage	SP11-107	159	160	3.8	0.050	<0.047	21100	21	39	21900	665	4.9	32100	7.1	32	600	6.4	111	<0.0010	8600	1.7
ABA-103	Mine Rock	4-Acid	TRA	Portage	SP11-107	219	219	4.3	0.050	<0.055	38600	26	58	14300	744	30	24400	4.4	30	690	8.9	170	<0.0020	22300	2.3
ABA-100	Mine Rock	4-Acid	TRA	Portage	SP11-107	277	278	1.5	0.80	<0.099	49700	26	49	30900	1640	19	9900	1.5	91	330	302	351	<0.0050	43300	6.1
ABA-089	Mine Rock	4-Acid	TRA	Portage	SP11-107	338	339	2.9	0.050	<0.036	27300	27	28	18700	1170	5.0	24000	2.0	38	970	12	138	<0.0010	16400	2.4
ABA-012	Mine Rock	4-Acid	TRA	Portage	DH-92-02	120.4	121	3.6	0.050	<0.055	51600	16	119	34200	321	17	1200	2.4	37	110	30	329	<0.0050	30000	3.3
ABA-058	Mine Rock	4-Acid	POR	Portage	DH-92-03	180.9	181.9	5.8	0.18	<0.019	49200	63	37	7900	142	42	1200	4.2	9.6	440	170	117	<0.0050	300	8.4
ABA-025	Mine Rock	4-Acid	And tuf. metaseds	Portage	BL-0142	66.14	67.06	5.6	0.010	<0.066	17600	28	25	12300	1060	1.0	19800	12	38	1370	6.5	93	<0.0010	1100	3.3
ABA-027	Mine Rock	4-Acid	And tuf. metaseds	Portage	BL-0142	118.72	119.63	5.0	<0.0050	<0.054	13600	26	23	9800	925	1.1	20000	11	37	1250	5.9	73	<0.0010	400	1.3
ABA-026	Mine Rock	4-Acid	And tuf. metaseds	Portage	BL-0142	178.63	179.63	3.2	0.010	<0.052	18500	19	30	19800	1670	3.1	18000	7.5	32	840	12	102	<0.0020	8500	2.9
ABA-057	Mine Rock	4-Acid	And tuf. metaseds	Portage	BL-0142	292.73	293.64	3.1	0.030	<0.041	10200	15	25	14200	895	0.81	27000	6.1	52	900	10	51	<0.0010	400	2.3
ABA-024	Mine Rock	4-Acid	And tuf. metaseds	Portage	BL-0145	62.18	63.09	2.4	0.040	<0.041	22100	4.9	28	21400	846	17	25000	1.5	64	710	21	78	<0.0020	10600	1.4
ABA-022	Mine Rock	4-Acid	And tuf. metaseds	Portage	BL-0145	120.7	121.62	3.6	0.010	<0.053	11800	11	38	36900	791	1.2	25400	2.6	109	1140	11	24	<0.0010	2100	2.1
ABA-020	Mine Rock	4-Acid	And tuf. metaseds	Portage	BL-0145	180.62	181.62	2.1	0.010	<0.053	20300	6.6	32	34500	1120	1.1	15000	1.7	71	660	17	77	<0.0020	2500	1.9
ABA-018	Mine Rock	4-Acid	And tuf. metaseds	Portage	BL-0145	242.62	243.23	2.5	1.6	<0.068	15900	15	31	30000	1880	10.0	21500	2.4	33	780	2170	136	<0.0030	35300	6.2
ABA-010	Mine Rock	4-Acid	And tuf. metaseds	Portage	BL-0145	299.92	300.84	2.7	0.010	<0.045	14700	11	40	35800	1120	1.1	25900	3.6	157	710	31	79	<0.0010	2200	2.5
ABA-008	Mine Rock	4-Acid	And tuf. metaseds	Portage	BL-0145	365.76	366.67	2.5	0.020	<0.043	30400	7.5	50	24900	1120	7.3	27500	4.1	50	680	39	137	<0.0050	4200	1.8
ABA-006	Mine Rock	4-Acid	And tuf. metaseds	Portage	BL-0145	425.5	426.42	2.7	2.3	<0.048	55300	212	110	13300	2170	301	5200	2.8	24	760	443	233	<0.21	45900	5.0
ABA-064	Mine Rock	4-Acid	VBX	Portage	BL-0321	6.71	7.62	6.6	0.010	<0.048	20100	32	26	7300	2190	2.0	8400	12	16	1950	5.5	94	<0.0010	600	1.9
ABA-063	Mine Rock	4-Acid	VBX	Portage	BL-0321	65.23	66.14	9.2	0.010	<0.044	17000	42	16	5800	1190	1.2	17900	18	7.9	750	8.9	87	<0.0010	600	2.1
ABA-065	Mine Rock	4-Acid	VBX	Portage	BL-0321	127.1	128.02	9.4	0.010	<0.046	17900	40	9.5	5300	1330	3.0	17700	19	7.7	740	14	81	<0.0010	13000	2.0
ABA-062	Mine Rock	4-Acid	VBX	Portage	BL-0321	196.44	197.05	6.1	<0.0050	<0.054	15900	32	19	11700	1170	1.5	18800	13	14	1260	8.6	81	<0.0010	5300	2.0
ABA-179	Mine Rock	4-Acid	POR	Portage	SP10-002	243	244	3.6	0.050	<0.064	42000	26	95	26300	994	14	12000	2.4	69	1340	13	239	<0.0020	27500	2.4
ABA-178	Mine Rock	4-Acid	VBX	Portage	SP10-002	365	366	4.6	0.040	<0.043	42100	114	68	13600	54	21	900	3.7	44	890	99	145	<0.0040	33800	4.6
ABA-177	Mine Rock	4-Acid	TRA	Portage	SP10-004	63	64	2.4	0.050	<0.050	60400	14	214	34000	966	6.3	4500	3.1	111	420	15	366	<0.0010	30800	4.2
ABA-109	Mine Rock	4-Acid	TRA	Portage	SP10-019	7	8	4.9	0.020	<0.038	28200	16	29	14100	853	5.2	31800	4.5	36	1110	14	88	<0.0050	16300	3.8
ABA-108	Mine Rock	4-Acid	POR	Portage	SP10-019	67	68	5.8	0.10	<0.022	54300	23	46	8300	791	12	25600	6.3	64	600	44	157	<0.0010	13500	2.3
ABA-105	Mine Rock	4-Acid	VBX	Portage	SP10-019	127	128	5.6	0.10	<0.027	48700	25	46	6900	765	16	24500	4.0	15	490	81	130	<0.0010	21700	4.1
ABA-110	Ore-Grade Materials	4-Acid	VBX	Portage	SP10-019	247	250	4.2	1.4	<0.053	58500	167	48	12400	2020	98	1100	2.9	39	990	598	185	<0.016	30900	7.0
ABA-106	Ore-Grade Materials	4-Acid	TRA	Portage	SP10-019	369	370	5.2	0.50	<0.068	54500	95	379	21600	1130	251	4000	4.1	32	1440	252	260	<0.19	59500	8.1
ABA-107	Mine Rock	4-Acid	POR	Portage	SP10-021	181	182	5.1	0.050	<0.072	37700	30	16	14000	1560	1.4	7100	11	15	1690	8.5	215	<0.0010	2200	6.9
ABA-184	Mine Rock	4-Acid	POR	Portage	SP10-021	241	242	3.9	0.050	<0.055	32000	25	29	13500	2110	13	9100	9.1	38	1050	16	172	<0.0020	42000	5.3
ABA-183	Mine Rock	4-Acid	VBX	Portage	SP11-039																				

Table B-6. Elemental Content Results

Sample ID	Classification	Digest Method ^(A)	Final Lithology Group	Zone	Drillhole	From	To	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb
Units						m	m	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
10x Crustal Abundance (Price 1997)						243	244	3.0	0.020	<0.048	17800	20	32	22300	919	4.4	19200	6.9	78	870	13	91	<0.0010	600	2.5
ABA-139	Mine Rock	4-Acid	POR	Portage	SP11-064	303	304	3.1	0.010	<0.051	13200	17	25	21400	1000	1.3	25700	7.2	73	900	11	70	<0.0010	2000	3.2
ABA-118	Mine Rock	4-Acid	POR	Portage	SP11-068	1	2	3.2	0.020	<0.057	7500	15	33	18200	765	1.2	29100	8.1	31	990	5.3	19	<0.0010	200	1.4
ABA-116	Mine Rock	4-Acid	POR	Portage	SP11-068	61	62	2.8	0.050	<0.054	16100	17	26	16500	1320	0.56	13700	7.0	27	850	5.9	62	<0.0010	1100	1.2
ABA-117	Mine Rock	4-Acid	VBX	Portage	SP11-068	121	122	2.9	0.050	<0.053	34900	16	24	18000	1140	1.2	8000	6.8	24	900	14	133	<0.0010	26200	2.9
ABA-146	Mine Rock	4-Acid	TRA	Portage	SP11-068	181	182	5.6	<0.0050	<0.069	15300	31	26	14400	1360	2.1	17500	14	40	1470	11	75	<0.0010	1300	2.4
ABA-147	Mine Rock	4-Acid	TRA	Portage	SP11-068	241	242	3.0	0.080	<0.057	19000	19	15	16500	2380	11	30000	6.9	30	880	196	93	<0.0020	36700	4.8
ABA-130	Mine Rock	4-Acid	VBX	Portage	SP11-068	300	301	3.1	0.050	<0.057	20100	19	34	18800	1740	1.6	18600	7.7	30	860	16	106	<0.0010	12200	2.3
ABA-129	Mine Rock	4-Acid	VBX	Portage	SP11-068	360	361	3.1	0.050	<0.053	15700	17	32	19700	977	1.6	20800	7.7	24	870	7.6	65	<0.0010	15400	2.9
ABA-143	Mine Rock	4-Acid	POR	Portage	SP11-068	420	421	3.2	<0.0050	<0.058	16900	16	25	16600	979	2.7	22800	8.8	37	1010	7.5	64	<0.0010	1000	1.5
ABA-141	Mine Rock	4-Acid	And tuf metaseds	Portage	SP11-072	4	5	1.8	0.010	<0.041	31400	5.5	33	23500	1060	2.1	11200	4.0	124	440	8.4	94	<0.0010	1100	5.8
ABA-142	Mine Rock	4-Acid	And tuf metaseds	Portage	SP11-072	64	65	2.1	0.040	<0.038	25100	45	38	35400	1180	13	12600	3.0	129	480	7.8	141	<0.0010	22100	3.0
ABA-166	Ore-Grade Materials	4-Acid	And tuf metaseds	Portage	SP11-072	124	125	3.7	0.020	<0.063	28900	20	36	7700	715	20	34800	4.6	36	690	7.8	137	<0.0020	25700	3.5
ABA-144	Mine Rock	4-Acid	And tuf metaseds	Portage	SP11-072	183	184	1.6	0.010	<0.064	39900	7.6	27	29500	1500	13	8600	1.3	93	340	4.4	280	<0.0030	20000	4.3
ABA-165	Mine Rock	4-Acid	POR	Portage	SP11-072	243	244	8.4	0.020	<0.074	51000	50	23	10100	1880	8.0	16400	6.3	13	1090	9.4	227	<0.0020	19300	3.3
ABA-159	Mine Rock	4-Acid	TRA	Portage	SP11-072	307	310	2.4	0.20	<0.049	49000	68	242	26900	1330	89	3700	2.4	58	720	5.3	254	<0.0070	41800	6.1
ABA-145	Mine Rock	4-Acid	POR	Portage	SP11-075	62	63	6.6	0.070	<0.015	46700	41	33	10400	945	155	2500	5.4	8.1	350	93	125	<0.0030	7400	3.7
ABA-163	Ore-Grade Materials	4-Acid	POR	Portage	SP11-075	182	183	4.1	0.040	<0.049	46900	259	55	17700	144	16	1300	3.1	54	950	83	130	<0.010	34900	5.8
ABA-164	Mine Rock	4-Acid	POR	Portage	SP11-075	241	242	5.2	0.030	<0.033	42500	48	28	9000	1080	37	14200	3.7	31	690	5.1	139	<0.0050	21600	3.3
ABA-148	Mine Rock	4-Acid	TRA	Portage	SP11-076	2	3	4.0	<0.0050	<0.063	50200	30	33	11300	860	9.5	25900	10	47	700	9.0	239	<0.0010	9700	2.7
ABA-167	Mine Rock	4-Acid	And tuf metaseds	Portage	SP11-076	63	64	2.2	0.050	<0.063	33600	17	26	24700	1270	5.7	4000	5.3	56	650	11	183	<0.0020	38300	8.2
ABA-172	Mine Rock	4-Acid	TRA	Portage	SP11-076	122	123	4.3	0.10	<0.030	54000	44	28	12400	757	10	2200	3.6	21	610	48	104	<0.0020	15200	4.7
ABA-173	Mine Rock	4-Acid	TRA	Portage	SP11-076	182	183	3.8	<0.050	<0.024	54900	48	48	14900	1280	21	1800	3.3	17	570	39	129	<0.0020	14800	3.7
ABA-170	Mine Rock	4-Acid	TRA	Portage	SP11-076	242.5	244	6.3	0.12	<0.016	41400	37	124	17000	97	32	1100	6.1	12	110	59	106	<0.0020	11200	3.3
ABA-176	Mine Rock	4-Acid	TRA	Portage	SP11-076	303	304	6.5	0.37	<0.028	52700	106	32	3900	95	92	1800	4.6	6.9	200	291	114	<0.0030	14700	2.6
ABA-157	Mine Rock	4-Acid	TRA	Portage	SP11-076	365.5	367	4.2	0.070	<0.070	49800	20	50	8300	221	7.5	600	4.1	50	1350	34	223	<0.0020	34300	5.7
ABA-171	Mine Rock	4-Acid	TRA	Portage	SP11-082	5	6.5	7.5	0.10	<0.025	18800	24	18	3100	572	1.9	49500	9.7	6.2	380	26	73	<0.0010	6500	1.5
ABA-160	Ore-Grade Materials	4-Acid	TRA	Portage	SP11-082	306	307	9.0	0.10	<0.062	49100	49	34	4100	63	9.1	600	6.0	26	970	17	153	<0.0020	17700	4.2
ABA-161	Mine Rock	4-Acid	TRA	Portage	SP11-082	365.5	367	3.0	0.060	<0.050	32200	23	51	20700	1340	22	31100	1.9	91	1200	24	189	<0.0080	37100	2.6
ABA-158	Mine Rock	4-Acid	TRA	Portage	SP11-082	426	427	2.9	0.040	<0.015	48100	105	83	12300	1030	134	2600	1.7	13	550	155	126	<0.027	21400	1.3
ABA-162	Mine Rock	4-Acid	POR	Portage	SP11-087	62	63	3.1	<0.050	<0.059	40100	81	245	21200	440	41	2800	2.6	52	960	41	152	<0.017	45900	2.0
ABA-174	Mine Rock	4-Acid	POR	Portage	SP11-087	122	123	2.7	0.010	<0.073	32000	18	41	12200	2700	2.6	13200	6.3	51	1010	8.4	213	<0.0020	4000	3.3
ABA-150	Mine Rock	4-Acid	POR	Portage	SP11-087	242	243	7.3	0.16	<0.023	41500	63	44	3100	276	91	7500	17	7.4	620	272	94	<0.12	6800	6.5
ABA-156	Mine Rock	4-Acid	POR	Portage	SP11-087	301.5	303	4.6	0.030	<0.026	46900	183	87	14500	424	166	2700	3.6	27	800	61	141	<0.054	25100	2.4
ABA-154	Mine Rock	4-Acid	TRA	Portage	SP11-087	362	363	3.2	0.010	<0.057	43500	20	37	13600	1060	15	25000	3.7	35	970	16	263	<0.0020	16200	3.3
ABA-169	Mine Rock	4-Acid	POR	Portage	SP11-088	7	8	3.3	0.020	<0.041	35500	21	29	12200	1280	1.4	22900	5.1	34	830	10	200	<0.0010	11700	2.3
ABA-168	Mine Rock	4-Acid	POR	Portage	SP11-088	66	67	3.3	0.010	<0.064	35700	19	24	16200	1180	14	21600	8.7	45	920	9.8	255	<0.0060	15700	3.2
ABA-175	Mine Rock	4-Acid	POR	Portage	SP11-088	126	127	4.9	0.020	<0.038	40300	38	23	14900	1400	9.6	6100	4.4	27	880	17	195	<0.0020	15900	2.1
ABA-152	Mine Rock	4-Acid	POR	Portage	SP11-088	246	247	4.4	0.080	<0.029	46800	26	21	9900	950	5.1	20900	3.5	21	610	81	121	<0.0010	15200	8.3
ABA-153	Mine Rock	4-Acid	POR	Portage	SP11-088	305.5	307	5.0	0.17	<0.027	40000	51	44	11000	474	17	10000	3.8	30	740	230	130	<0.0080	21400	5.3
ABA-151	Ore-Grade Materials	4-Acid	POR	Portage	SP11-088	365.5	367	3.3	0.50	<0.061	52700	104	590	27900	290	450	8400	1.8	57	1020	84	300	<0.21	57700	1.8
ABA-155	Mine Rock	4-Acid	POR	Portage	SP11-088	427	428.5	4.5	0.010	<0.035	44900	79	39	12900	1080	36	3300	3.6	25	710	45	122	<0.0030	28600	2.5
ABA-104	Mine Rock	4-Acid	TRA	Portage	SP11-097	62	63	3.5	<0.050	<0.060	33500	34	34	6400	1400	11	27900	3.4	60	1330	8.4	194	<0.0020	6400	5.0
ABA-090	Mine Rock	4-Acid	TRA	Portage	SP11-097	241	242	2.0	0.10	<0.052	34300	8.4	96	26900	406	6.0	18900	1.1	72	730	22	123	<0.0070	11900	2.3
ABA-111	Mine Rock	4-Acid	POR	Portage	SP11-099	64	65	5.8	0.10	<0.020	70900	28	33	2200	718	8.9	20600	6.3	22	390	129	175	<0.0010	10400	4.4
ABA-087	Mine Rock	4-Acid	TRA	Portage	SP11-099	304	305	5.5	0.10	<0.034	46300	133	56	10900	89	22	1200	3.4	25	970	33	133	<0.011	13900	4.3
ABA-096	Mine Rock	4-Acid	And tuf metaseds	Portage	SP11-106	4	5	4.7	0.10	<0.031	71000	36	38	8700	911	11	4500	3.5	22	520	40	217	<0.0010	17800	8.6
ABA-091	Mine Rock	4-Acid	And tuf metaseds	Portage	SP11-106	64	65	5.0	<0.050	<0.023	40000	35	39	10900	700	16	9700	3.9	18	650	36	121	<0.0010	13900	7.1
ABA-093	Mine Rock	4-Acid	And tuf metaseds	Portage	SP11-106	124	125	5.8	0.020	<0.061	31200	32	23	13600	1920	2.8	22400	12	20	1640	21	201	<0.0010	20000	2.6
ABA-094	Mine Rock	4-Acid	And tuf metaseds	Portage	SP11-106	182	185	4.1	0.050	<0.025	57400	25	27	10800	1660	14	8400	2.8	26	560	45	135	<0.0010	27500	3.1
ABA-102	Mine Rock	4-Acid	POR	Portage	SP11-106	244	245	9.4	0.030	<0.030	45600	81	45	5700	63	3.0	5700	19	16	320	55	130	<0.0020	7600	4.4
ABA-088	Mine Rock	4-Acid	POR	Portage	SP11-106	304	305	8.8	<0.050	<0.015	36700	65	34	3400	58	2.4	19700	17	11	14					

Table B-6. Elemental Content Results

Sample ID	Classification	Digest Method (A)	Final Lithology Group	Zone	Drillhole	From	To	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Ti	U	V	W	Y	Zn	Zr
Units						m	m	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
10x Crustal Abundance (Price 1997)								220	0.5	23	3700	--	--	96	8.5	27	1200	12.5	330	700	1650	
009501	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-133	416	418	1.3	2.0	<0.20	182	0.090	4.9	4.4	350	1.6	3.2	15	0.93	8.7	869	71
009502	Ore-Grade Materials	3:1 Aqua Regia	LAM	Portage	SP12-133	365	367	1.6	1.3	0.30	160	0.020	2.7	5.1	420	2.0	7.8	19	1.2	11	338	82
009503	Mine Rock	3:1 Aqua Regia	POR	Portage	SP12-133	376	378	8.8	1.6	0.30	47	0.010	2.0	2.8	2770	8.5	3.1	118	0.86	9.5	169	40
009504	Mine Rock	3:1 Aqua Regia	POR	Portage	SP12-133	257.5	259.5	3.3	0.50	<0.20	128	<0.010	0.46	3.7	70	0.41	2.7	10	0.57	7.3	80	42
009505	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP12-133	251.5	253.5	0.90	0.30	<0.20	287	<0.010	0.10	4.8	<50	0.16	2.7	6.0	0.35	7.6	157	49
009506	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP12-133	103	105	5.9	0.30	<0.20	270	<0.010	0.030	0.60	320	1.4	0.12	80	0.28	6.4	94	11
009507	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP12-133	39	41	3.3	<0.20	<0.20	213	<0.010	<0.0100	1.3	1400	1.8	0.37	43	0.27	4.9	62	26
009508	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Camp	SP12-132	140	142	6.8	<0.20	<0.20	125	<0.010	0.030	2.8	1410	1.7	0.42	130	4.3	14	129	57
009509	Mine Rock	3:1 Aqua Regia	VBX	Camp	SP12-132	27	29	9.1	<0.20	0.40	111	<0.010	0.080	1.6	2260	3.7	0.98	103	15	12	110	52
009510	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Camp	SP12-132	4.5	6.5	4.2	0.20	<0.20	178	<0.010	0.090	1.2	990	2.7	0.42	51	0.86	7.6	69	24
009511	Ore-Grade Materials	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP12-131	433	435	4.9	3.7	7.6	0.30	40	0.030	13	2.7	320	2.2	7.1	25	5.8	23	3171
009512	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-131	349	351	1.1	2.0	0.40	124	<0.010	6.2	4.7	240	1.2	3.1	11	1.1	9.9	114	81
009513	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-131	280	282	1.7	0.40	0.20	291	0.010	0.54	24	390	1.4	9.5	13	1.4	21	132	182
009514	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP12-131	207	209	1.0	1.7	<0.20	233	<0.010	4.6	3.4	210	0.69	1.8	10	1.4	8.3	940	49
009515	Mine Rock	3:1 Aqua Regia	POR	Portage	SP12-131	163.5	165.5	0.80	0.30	<0.20	454	<0.010	0.91	5.0	100	0.35	4.8	4.0	0.38	8.1	70	89
009516	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP12-131	108	110	3.6	0.30	<0.20	98	<0.010	0.47	2.2	<50	0.080	0.28	56	0.28	4.9	97	19
009517	Mine Rock	3:1 Aqua Regia	POR	Portage	SP12-131	33	35	1.8	<0.20	<0.20	194	0.070	0.26	2.4	290	0.27	0.63	22	0.64	9.5	40	30
009518	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Camp	SP12-125	34	36	5.7	<0.20	<0.20	124	0.020	<0.0100	3.3	1590	4.1	1.6	77	7.7	13	69	58
009519	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Camp	SP12-125	22	24	6.7	<0.20	0.20	96	0.010	0.010	2.7	1010	1.3	0.82	90	9.5	11	60	50
009520	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Camp	SP12-126	72	74	6.0	<0.20	<0.20	89	<0.010	<0.0100	1.9	470	0.21	0.26	87	1.9	12	127	20
009521	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Camp	SP12-126	167	169	4.8	0.40	<0.20	108	<0.010	0.28	0.90	180	0.090	0.14	50	0.21	7.8	56	6.7
009522	Ore-Grade Materials	3:1 Aqua Regia	VBX	Camp	SP12-126	228.5	231.5	5.6	0.40	0.20	267	<0.010	0.34	2.6	2540	4.1	1.3	65	0.37	12	77	29
009523	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Camp	SP12-126	297	299	1.6	0.30	<0.20	155	<0.010	0.030	0.50	1050	0.98	0.050	142	3.2	6.0	117	7.5
009524	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP12-127	19.2	21.2	2.0	0.20	<0.20	292	0.010	0.050	26	260	1.5	11	16	1.2	23	116	158
009525	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP12-127	149	151	1.8	0.70	<0.20	131	0.010	2.6	5.3	240	1.4	6.4	23	1.3	10	146	80
009526	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-127	258	260	1.7	1.5	0.20	359	0.010	3.7	5.4	260	1.9	15	23	1.3	21	158	74
009527	Mine Rock	3:1 Aqua Regia	POR	Portage	SP12-127	272.1	275	1.2	0.60	0.70	196	<0.010	2.3	5.2	370	1.3	4.3	19	0.76	7.3	104	59
009528	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-127	373	375	7.5	0.60	<0.20	65	<0.010	1.7	5.4	1770	4.8	1.2	96	0.63	7.8	130	33
009529	Ore-Grade Materials	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP12-127	384	386	14	2.5	0.40	46	<0.010	5.0	2.5	1860	6.2	1.2	133	0.80	10	132	31
009530	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Camp	SP12-121	323	325	17	0.50	<0.20	152	<0.010	0.44	0.80	740	1.0	0.68	138	0.13	9.1	104	13
009531	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Camp	SP12-121	271	273	26	0.30	<0.20	160	<0.010	0.010	0.50	750	0.50	0.050	206	1.7	7.2	99	4.3
009532	Ore-Grade Materials	3:1 Aqua Regia	And. tuf. metaseds	Camp	SP12-121	116	118	10	0.20	0.20	249	<0.010	0.080	2.1	970	1.5	0.54	79	0.96	9.5	92	32
009533	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Camp	SP12-121	71.1	73	12	<0.20	<0.20	51	<0.010	<0.0100	1.4	380	0.040	0.21	92	0.17	11	116	15
009534	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP12-119A	166	167.5	1.3	1.2	<0.20	285	<0.010	2.4	5.4	60	0.37	7.7	8.0	0.60	9.3	198	72
009535	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-119A	73	75	2.2	0.60	<0.20	338	<0.010	0.96	4.6	480	2.0	9.9	28	1.1	11	176	84
009536	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-119A	24	26	5.9	1.0	0.60	69	0.10	3.2	4.2	420	2.8	12	30	1.4	28	305	98
009537	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP12-119A	198	199	4.1	0.60	<0.20	515	0.020	1.6	2.2	1020	1.8	6.6	43	0.23	10	135	61
009538	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP12-114	529	530.5	3.5	6.6	0.20	47	0.020	13	2.5	970	2.3	3.0	30	1.3	13	120	71
009539	Mine Rock	3:1 Aqua Regia	LAM	Portage	SP12-114	344.8	345.6	31	<0.20	0.90	37	<0.010	0.12	1.3	4220	15	1.0	188	0.28	5.1	231	17
009540	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-114	305	306	2.1	0.70	0.30	221	<0.010	0.72	4.8	520	1.9	17	19	0.71	9.4	207	101
009541	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP12-114	279.5	280.5	1.8	1.0	<0.20	436	<0.010	1.2	5.9	280	1.1	3.4	12	0.56	11	84	76
009542	Mine Rock	3:1 Aqua Regia	POR	Portage	SP12-114	152	153	1.3	<0.20	<0.20	783	<0.010	0.13	4.1	310	1.1	6.3	8.0	0.28	7.7	287	101
009543	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP12-114	45	46	3.2	<0.20	<0.20	236	<0.010	0.030	2.5	630	1.1	0.70	27	0.76	7.8	113	53
009544	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP11-104	362	384	6.5	9.5	0.30	195	0.010	13	1.6	910	3.2	2.2	51	1.1	13	124	89
009545	Ore-Grade Materials	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP11-104	356	357	6.4	9.5	0.60	233	0.050	8.3	2.6	320	2.4	21	47	2.6	21	432	88
009546	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP11-104	320.9	322.9	2.3	0.80	0.20	566	<0.010	3.1	3.9	450	2.0	6.1	29	0.92	8.8	63	64
009547	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-117A	411	413	3.4	<0.20	<0.20	116	<0.010	0.010	1.8	430	0.36	0.20	59	0.13	8.5	85	14
009548	Ore-Grade Materials	3:1 Aqua Regia	POR	Portage	SP12-117A	338	341	4.7	6.7	<0.20	63	0.010	14	1.4	560	3.1	3.8	32	8.5	12	223	59
009549	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-117A	299	301	11	4.3	0.30	398	0.010	5.6	3.2	590	2.8	5.5	83	2.7	9.5	484	84
009550	Mine Rock	3:1 Aqua Regia	POR	Portage	SP12-117A	236.5	238.5	3.1	3.7	0.40	427	0.010	1.5	6.4	440	3.0	6.9	39	17	7.0	149	111
009551	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-117A	175	176	7.0	<0.20	0.60	53	<0.010	<0.010	4.0	1830	5.1	1.3	81	0.35	7.6	278	35
009552	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP12-117A	29	30	6.8	<0.20	0.20	193	<0.010	<0.010	3.3	630	0.52	0.39	55	0.37	8.2	103	31
009553	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP12-116	167	168	9.3	0.40	<0.20	145	<0.010	0.030	0.60	1820	5.0	0.61	112	0.37	9.3	103	31
009554	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-116	47	48	3.7	<0.20	<0.20	191	<0.010	0.010	1.2	630	1.2	0.25	43	0.28	9.4	120	22
009555	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP12-115	195.1	196.1	4.0	0.70	0.40	264	0.030	0.86	2.0	580	1.3	1.1	33	1.8	7.2	544	45
009556	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP12-115	164	165	2.9	1.7	<0.20	130	0.010	8.4	1.9	320	0.93	1.2	28	5.5	7.6	6830	35
009557	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-115	188	189	3.9	0.20	<0.20	144	<0.010	0.48	1.3	1190	2.1	0.62	45	1.3	7.3	446	47
009558	Ore-Grade Materials	3:1 Aqua Regia	POR	Portage	SP12-112	30	31.5	4.4	<0.20	<0.20	151	<0.010	<0.0100	1								

Table B-6. Elemental Content Results

Sample ID	Classification	Digest Method (A)	Final Lithology Group	Zone	Drillhole	From	To	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Ti	U	V	W	Y	Zn	Zr
Units						m	m	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
10x Crustal Abundance (Price 1997)						220	0.5	23	3700	--	--	--	--	96	8.5	27	1200	12.5	330	700	1650	
009573	Ore-Grade Materials	3.1 Aqua Regia	TRA	Portage	SP12-142	41	43	3.3	4.7	0.40	19	<0.010	7.2	1.6	320	1.8	3.8	35	1.9	7.8	169	48
009574	Mine Rock	3.1 Aqua Regia	TRA	Portage	SP12-142	218	220	4.7	3.7	<0.20	61	<0.010	7.8	2.5	1680	3.1	3.4	71	0.60	12	99	43
009575	Mine Rock	3.1 Aqua Regia	POR	Portage	SP12-142	230	232	2.5	1.7	<0.20	59	<0.010	5.5	5.0	770	1.4	4.6	26	1.0	15	107	54
009576	Ore-Grade Materials	3.1 Aqua Regia	TRA	Portage	SP12-142	319.5	321.5	7.6	1.8	0.60	68	<0.010	2.6	3.3	3330	3.7	2.1	113	0.37	9.4	107	33
009577	Mine Rock	3.1 Aqua Regia	And. tuf. metaseds	Portage	SP12-143	26	28	4.4	0.30	<0.20	78	<0.010	0.10	2.2	320	0.060	0.24	66	0.17	6.5	79	17
009578	Ore-Grade Materials	3.1 Aqua Regia	And. tuf. metaseds	Portage	SP12-143	173.1	175.1	3.4	0.90	<0.20	155	<0.010	1.8	2.6	1240	2.6	0.57	56	2.2	8.4	61	64
009579	Mine Rock	3.1 Aqua Regia	VBX	Portage	SP12-143	340	342	4.2	0.80	<0.20	205	<0.010	1.0	1.9	1080	1.8	0.50	61	0.15	6.6	81	40
009580	Mine Rock	3.1 Aqua Regia	VBX	Portage	SP11-100	263	264.5	2.4	0.70	0.50	208	<0.010	1.3	6.2	540	2.0	9.3	24	1.2	12	106	90
009581	Mine Rock	3.1 Aqua Regia	TRA	Portage	SP11-100	171	172	2.7	<0.20	<0.20	350	<0.010	0.15	4.7	810	1.4	2.8	35	1.2	13	127	99
009582	Mine Rock	3.1 Aqua Regia	TRA	Portage	SP11-100	47	49	0.50	0.30	<0.20	450	<0.010	0.19	5.3	190	1.3	5.9	5.0	0.32	8.2	47	128
009583	Mine Rock	3.1 Aqua Regia	TRA	Portage	SP11-100	457	458.5	6.2	0.50	<0.20	68	<0.010	0.60	5.1	3920	4.3	3.0	88	0.85	69	138	18
009584	Ore-Grade Materials	3.1 Aqua Regia	And. tuf. metaseds	Portage	SP11-100	437	439	2.2	8.2	<0.20	415	0.030	8.0	4.9	260	1.4	18	25	3.0	11	813	85
009585	Mine Rock	3.1 Aqua Regia	LAM	Portage	SP11-100	335	337	0.70	1.1	<0.20	315	<0.010	1.1	22	280	1.5	9.8	10	1.1	13	124	160
009586	Mine Rock	3.1 Aqua Regia	POR	Portage	SP11-100	349	351	0.70	1.3	<0.20	273	0.010	1.3	26	130	0.77	11	7.0	1.8	15	509	138
009587	Ore-Grade Materials	3.1 Aqua Regia	And. tuf. metaseds	Portage	SP12-151	86.5	88.5	1.5	0.80	<0.20	55	<0.010	2.3	1.8	<50	0.14	0.29	25	2.3	7.2	2085	14
009588	Mine Rock	3.1 Aqua Regia	TRA	Portage	SP12-151	202.5	204.5	2.2	1.9	<0.20	240	0.020	1.1	6.1	430	2.0	4.2	29	1.3	12	1213	85
009589	Mine Rock	3.1 Aqua Regia	And. tuf. metaseds	Portage	SP12-171	50	52	2.2	<0.20	<0.20	26	<0.010	0.84	1.9	<50	0.090	0.35	56	0.39	5.7	72	12
009590	Mine Rock	3.1 Aqua Regia	VBX	Portage	SP12-170A	404	405.9	1.9	2.1	<0.20	4181	<0.010	4.9	5.9	400	1.4	3.6	26	1.3	9.5	83	88
009591	Mine Rock	3.1 Aqua Regia	And. tuf. metaseds	Portage	SP12-170A	232	234	3.1	0.70	<0.20	40	0.060	1.8	3.7	970	1.2	1.7	29	0.47	17	138	27
009592	Mine Rock	3.1 Aqua Regia	And. tuf. metaseds	Portage	SP12-170A	146.9	148.9	2.0	1.0	<0.20	22	0.020	2.0	2.6	920	2.1	1.4	51	0.78	9.4	102	30
009593	Mine Rock	3.1 Aqua Regia	And. tuf. metaseds	Portage	SP12-171	179	181	2.2	0.40	<0.20	116	<0.010	0.74	1.2	770	0.63	0.53	54	0.57	8.8	66	15
009594	Ore-Grade Materials	3.1 Aqua Regia	VBX	Portage	SP12-171	271	273	3.8	5.4	<0.20	57	0.020	7.4	1.0	1270	2.6	2.7	46	6.9	8.9	122	45
009595	Ore-Grade Materials	3.1 Aqua Regia	Vbx	Portage	SP12-171	308.1	310	5.0	7.0	3.0	1235	0.15	12	6.0	360	1.8	5.5	29	2.2	26	537	61
009596	Mine Rock	3.1 Aqua Regia	And. tuf. metaseds	Portage	SP12-170A	74	77	2.1	<0.20	<0.20	32	<0.010	0.15	3.1	<50	0.16	0.87	60	0.36	6.9	145	16
009597	Mine Rock	3.1 Aqua Regia	And. tuf. metaseds	Portage	SP12-165	86	88	1.1	1.2	0.20	26	<0.010	2.1	2.1	1810	3.1	0.52	139	1.8	14	190	18
009598	Ore-Grade Materials	3.1 Aqua Regia	TRA	Portage	SP12-165	172	174	3.7	5.5	<0.20	155	<0.010	7.5	1.7	1840	2.9	1.1	55	0.44	13	135	38
009599	Mine Rock	3.1 Aqua Regia	And. tuf. metaseds	Portage	SP12-165	40	42	5.6	<0.20	<0.20	8.8	<0.010	0.060	1.3	170	0.050	0.20	91	0.44	9.6	97	9.6
009600	Mine Rock	3.1 Aqua Regia	And. tuf. metaseds	Portage	SP12-174	198	200	7.0	0.20	0.20	34	<0.010	0.25	2.3	1080	0.95	0.76	104	0.18	7.3	165	23
009601	Ore-Grade Materials	3.1 Aqua Regia	VBX	Portage	SP12-160	342	345	4.7	2.9	<0.20	512	<0.010	5.7	6.9	690	1.9	4.2	65	3.4	15	167	68
009602	Ore-Grade Materials	3.1 Aqua Regia	TRA	Portage	SP12-160	287	290	9.2	7.5	0.30	62	<0.010	9.8	1.5	1320	2.6	3.0	72	122	13	257	83
009603	Ore-Grade Materials	3.1 Aqua Regia	VBX	Portage	SP12-185	199	201	3.5	26	<0.20	384	<0.010	48	1.0	260	0.81	1.6	35	1.1	11	54	42
009604	Mine Rock	3.1 Aqua Regia	VBX	Portage	SP12-185	159	161	1.8	<0.20	122	<0.010	0.10	2.1	<50	0.080	0.18	42	0.24	6.4	67	19	
009605	Mine Rock	3.1 Aqua Regia	VBX	Portage	SP12-184	211	213	4.3	<0.20	0.50	135	<0.010	<0.0100	4.8	1900	2.2	1.1	20	11	16	103	118
009606	Mine Rock	3.1 Aqua Regia	And. tuf. metaseds	Portage	SP12-184	129	131	3.9	<0.20	<0.20	149	<0.010	<0.0100	2.6	590	0.97	0.29	57	0.37	7.1	105	26
009607	Mine Rock	3.1 Aqua Regia	And. tuf. metaseds	Portage	SP12-184	55	57	3.5	0.90	<0.20	80	<0.010	0.41	0.70	430	0.43	0.66	84	1.1	8.4	141	11
009608	Mine Rock	3.1 Aqua Regia	POR	Portage	SP12-183	130	132	3.2	7.5	<0.20	124	<0.010	9.6	1.3	970	2.0	3.1	32	1.1	13	197	61
009609	Ore-Grade Materials	3.1 Aqua Regia	TRA	Portage	SP12-183	286.5	288.5	0.50	0.40	<0.20	192	0.020	0.52	12	<50	0.12	4.7	2.0	1.1	8.8	42	73
009610	Mine Rock	3.1 Aqua Regia	And. tuf. metaseds	Portage	SP12-183	65.3	67.7	2.4	0.50	<0.20	19	0.010	1.7	2.8	240	0.22	1.4	45	0.44	9.8	149	20
009611	Mine Rock	3.1 Aqua Regia	TRA	Portage	SP12-182	388	390	4.2	<0.20	<0.20	97	<0.010	0.010	2.1	1120	1.0	0.34	75	0.84	10	73	19
009612	Mine Rock	3.1 Aqua Regia	TRA	Portage	SP12-182	272	274	2.3	<0.20	<0.20	44	<0.010	0.12	2.5	580	1.4	0.70	68	0.40	9.5	121	32
009613	Ore-Grade Materials	3.1 Aqua Regia	TRA	Portage	SP12-182	252	254	4.8	1.8	<0.20	60	<0.010	2.2	2.6	2020	3.1	1.5	87	0.60	8.4	125	26
009614	Mine Rock	3.1 Aqua Regia	TRA	Portage	SP12-182	227	229	5.8	2.3	<0.20	312	0.010	4.6	6.3	1070	2.7	6.4	63	1.4	12	120	52
009615	Mine Rock	3.1 Aqua Regia	LAM	Portage	SP12-182	183.5	185.5	11	0.80	0.20	288	<0.010	0.89	5.7	2830	8.5	6.1	127	3.0	7.4	324	59
009616	Mine Rock	3.1 Aqua Regia	TRA	Portage	SP12-182	127	129	7.9	<0.20	<0.20	28	<0.010	<0.010	1.9	1720	2.7	0.33	122	0.24	5.8	122	19
009617	Ore-Grade Materials	3.1 Aqua Regia	POR	Portage	SP12-182	64	69	2.5	2.2	<0.20	64	<0.010	8.3	6.4	420	1.2	4.1	46	0.75	9.7	50	59
009618	Ore-Grade Materials	3.1 Aqua Regia	And. tuf. metaseds	Portage	SP12-160	156	157.5	3.2	4.5	<0.20	84	<0.010	13	2.6	1580	3.1	2.5	49	0.68	9.7	125	39
009619	Mine Rock	3.1 Aqua Regia	And. tuf. metaseds	Portage	SP12-160	115.7	117.2	1.0	<0.20	<0.20	88	<0.010	0.080	7.7	250	0.77	1.4	13	0.49	9.3	243	21
009620	Ore-Grade Materials	3.1 Aqua Regia	VBX	Portage	SP12-160	21.6	23.6	3.5	2.5	<0.20	61	<0.010	2.5	1.9	1170	2.9	1.3	56	0.48	7.6	144	28
009621	Mine Rock	3.1 Aqua Regia	TRA	Portage	SP12-177A	154.2	156.2	2.5	0.20	0.60	279	<0.010	2.2	22	540	2.5	7.0	36	16	16	188	156
009622	Ore-Grade Materials	3.1 Aqua Regia	POR	Portage	SP12-177A	197.2	199	1.6	0.60	<0.20	296	<0.010	6.7	12	180	1.2	6.3	18	26	9.8	144	107
009623	Ore-Grade Materials	3.1 Aqua Regia	VBX	Portage	SP12-177A	259	261	1.7	7.8	<0.20	263	<0.010	28	4.9	410	1.9	7.0	25	1.8	9.1	3182	64
009624	Mine Rock	3.1 Aqua Regia	And. tuf. metaseds	Portage	SP12-177A	63	65	4.0	<0.20	<0.20	33	<0.010	0.11	5.4	1850	4.6	1.3	77	0.17	6.3	123	30
009625	Mine Rock	3.1 Aqua Regia	VBX	Portage	SP12-154	130	132	6.5	0.80	<0.20	78	<0.010	0.63	2.0	1060	1.1	0.59	104	0.55	10	57	30
009626	Ore-Grade Materials	3.1 Aqua Regia	And. tuf. metaseds	Portage	SP12-154	21	23	3.0	3.0	<0.20	139	0.090	13	1.6	160	0.18	0.35	37	0.55	5.9	61	23
009627	Mine Rock	3.1 Aqua Regia	And. tuf. metaseds	Portage	SP12-179	62	64	3.9	1.1	<0.20	35	0.030	1.3	4.9	110	0.71	3.8	15	0.56	26	41	36
009628	Mine Rock	3.1 Aqua Regia	TRA	Portage	SP12-179	98	102	32	0.70	0.40	82	0.010	0.41	1.9	3210	8.1	11	140	0.99	6.4	104	30
009629	Mine Rock	3.1 Aqua Regia	POR	Portage	SP12-179	123	126.9	1.5	0.70	<0.20	253	<0.010	1.9	4.9	120	0.71	8.9	13	0.93	12	43	102
009630	Mine Rock	3.1 Aqua Regia	TRA	Portage	SP12-153	60	62	3.1	<0.20	<0.20	31	<0.010	<0.010	2.3</								

Table B-6. Elemental Content Results

Sample ID	Classification	Digest Method ^(A)	Final Lithology Group	Zone	Drillhole	From	To	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Ti	U	V	W	Y	Zn	Zr
Units						m	m	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
10x Crustal Abundance (Price 1997)						220	0.5	23	3700	--	--	96	--	96	8.5	27	1200	12.5	330	700	1650	
009548	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-197	93.5	95	2.8	1.7	<0.20	284	0.010	4.7	5.0	290	2.1	5.0	28	0.83	10	77	103
009549	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP12-197	86	88	10	6.7	<0.20	59	<0.010	17	1.5	1120	4.8	1.9	136	2.6	11	121	44
009550	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-197	127	129	2.5	1.5	0.30	413	<0.010	2.0	5.5	190	1.4	6.2	18	1.1	11	102	101
009551	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP12-197	209	211	8.0	0.6	0.30	101	<0.010	1.1	0.70	490	2.8	2.0	53	1.0	9.0	588	42
009552	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP12-197	310	312	8.4	7.1	<0.20	56	0.010	1.1	1.7	890	2.7	4.3	60	2.1	11	126	53
009553	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-197	345	347	9.5	0.40	<0.20	27	<0.010	1.1	2.2	2850	3.1	1.9	115	0.44	9.7	76	41
009554	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-161	9.5	11.5	3.4	0.80	<0.20	35	<0.010	0.98	2.0	600	1.5	1.0	44	0.69	8.1	110	28
009555	Ore-Grade Materials	3:1 Aqua Regia	VBX	Portage	SP12-161	265	267	4.2	1.4	<0.20	51	<0.010	27	1.5	460	1.7	2.2	33	0.63	10	164	59
009556	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP12-1628	42	44	3.6	6.9	<0.20	36	<0.010	17	1.1	570	1.9	1.9	34	0.70	11	194	51
009557	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	SP10-026	60	62	6.9	0.60	<0.20	73	<0.010	0.71	1.8	2260	3.5	1.3	97	0.26	6.5	111	23
009558	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP13-212	118	120	3.5	0.30	<0.20	46	<0.010	0.43	2.1	680	1.8	0.93	76	0.36	8.6	127	31
009559	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP13-212	160	162	8.8	0.90	<0.20	25	<0.010	1.6	1.9	1810	3.5	0.80	114	0.49	7.3	134	30
009560	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP13-212	99	101	1.5	0.50	<0.20	429	<0.010	1.0	19	520	2.0	5.0	15	0.31	12	55	109
009561	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP13-212	160	162	1.3	<0.20	0.20	277	0.080	0.10	21	350	1.6	4.4	18	0.37	10	73	106
009562	Mine Rock	3:1 Aqua Regia	POR	Portage	SP12-1628	334	336	1.1	1.2	<0.20	418	0.030	0.44	17	90	0.49	6.3	7.0	5.4	11	108	138
009563	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP12-199	130	132	1.4	1.2	0.40	327	0.010	2.5	6.7	160	1.1	6.8	18	0.71	8.7	41	67
009564	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	SP12-199	187	189	4.4	2.3	1.2	258	<0.010	3.4	5.0	300	1.2	6.7	44	0.93	8.3	44	70
009565	Ore-Grade Materials	3:1 Aqua Regia	POR	Portage	SP12-199	251	253	0.80	5.2	<0.20	221	<0.010	11	4.1	80	0.88	8.2	10	1.3	8.0	1105	75
009566	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP13-215	82	84	2.3	0.30	<0.20	23	<0.010	0.53	2.1	440	1.2	0.60	38	0.47	6.9	114	26
009567	Mine Rock	3:1 Aqua Regia	POR	Portage	SP13-215	142	144	0.40	0.40	<0.20	209	<0.010	0.67	14	<50	0.21	3.4	3.0	1.9	7.0	106	61
009568	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP12-1628	346	348	6.3	3.0	<0.20	316	0.040	1.0	3.8	330	2.7	5.4	95	4.2	16	1096	51
009569	Ore-Grade Materials	3:1 Aqua Regia	VBX	Portage	SP12-1628	95.8	97.8	3.2	1.2	<0.20	42	<0.010	3.0	1.7	700	2.7	1.8	70	0.47	8.5	133	36
009570	Mine Rock	3:1 Aqua Regia	POR	Portage	SP13-213	113	115	4.4	7.8	<0.20	77	<0.010	32	2.4	1550	4.0	2.8	67	0.58	11	181	35
009571	Mine Rock	3:1 Aqua Regia	POR	Portage	SP13-215	173	175	0.80	1.0	<0.20	275	<0.010	2.4	12	80	0.68	4.8	5.0	1.0	7.6	851	125
009572	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP12-199	304.5	306.4	3.4	1.0	<0.20	217	<0.010	4.2	5.9	620	3.5	15	54	3.6	13	478	48
009573	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	SP13-217	88	90	7.2	2.1	<0.20	28	<0.010	3.7	1.3	2090	4.3	0.72	102	1.0	12	117	22
009574	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP13-217	194	196	3.2	3.8	<0.20	152	<0.010	13	1.1	910	1.7	2.0	37	4.7	10	133	27
009575	Ore-Grade Materials	3:1 Aqua Regia	And tuf. metaseds	Portage	SP13-219	50	52	4.6	1.6	<0.20	23	<0.010	24	2.3	820	1.7	0.80	71	0.32	10.0	601	21
009576	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	SP13-219	66	68	3.9	0.60	<0.20	86	<0.010	2.1	2.8	1150	1.4	0.75	67	0.44	8.7	98	35
009577	Mine Rock	3:1 Aqua Regia	POR	Portage	SP13-219	106.2	108.2	0.50	0.60	<0.20	181	<0.010	1.4	13	<50	0.090	3.6	3.0	1.8	8.8	81	66
009578	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	SP13-221	63	65	12	<0.20	<0.20	25	0.090	0.020	3.2	350	0.35	0.45	121	1.1	9.4	92	20
009579	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	SP13-221	109	111	4.0	0.40	<0.20	29	0.020	0.29	1.4	380	0.18	0.38	84	0.97	9.8	96	13
009580	Ore-Grade Materials	3:1 Aqua Regia	VBX	Portage	SP13-218	120.2	122	1.6	0.60	<0.20	518	0.020	0.64	5.8	500	2.6	9.4	20	1.0	9.1	78	82
009581	Mine Rock	3:1 Aqua Regia	POR	Portage	SP13-218	49	52	1.5	0.90	<0.20	108	<0.010	1.2	11	230	1.1	4.5	13	0.47	9.2	117	66
009582	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	SP12-168	86	88	0.70	0.30	<0.20	133	<0.010	0.36	12	<50	0.18	4.8	3.0	0.34	4.3	204	97
009583	Ore-Grade Materials	3:1 Aqua Regia	VBX	Portage	SP12-168	142	144	3.5	2.9	<0.20	137	<0.010	4.2	2.2	650	1.0	0.33	42	2.3	8.6	77	39
009584	Ore-Grade Materials	3:1 Aqua Regia	VBX	Portage	SP12-168	208	209.9	3.1	6.4	<0.20	539	<0.010	24	4.2	450	1.4	3.5	29	0.48	12	128	94
009585	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Camp	SP11-030	175	176	6.3	0.40	<0.20	119	<0.010	0.38	1.2	28	0.070	0.14	109	0.15	12	126	12
009586	Ore-Grade Materials	3:1 Aqua Regia	TRA	Camp	SP11-030	61	62	3.7	0.80	<0.20	511	<0.010	0.17	1.7	960	2.9	0.72	36	0.44	15	58	36
009587	Ore-Grade Materials	3:1 Aqua Regia	Tra	Camp	SP11-030	53	54	3.9	0.90	<0.20	548	<0.010	0.46	2.8	670	2.6	3.3	29	0.45	15	75	49
009588	Ore-Grade Materials	3:1 Aqua Regia	And tuf. metaseds	Camp	SP11-030	41	42	6.3	1.8	<0.20	128	<0.010	0.55	2.3	1940	4.2	0.46	92	2.0	14	96	47
009589	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP11-044	51	52.5	4.9	<0.20	0.20	131	<0.010	0.010	4.1	1190	2.2	1.2	69	0.20	8.0	106	32
009590	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP11-044	124	126	2.7	3.5	<0.20	56	<0.010	2.9	5.4	440	2.1	7.2	32	0.97	12	735	55
009591	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP11-044	177	179	1.2	<0.20	<0.20	217	<0.010	0.43	5.5	660	2.5	2.9	22	0.73	6.8	131	50
009592	Mine Rock	3:1 Aqua Regia	POR	Portage	SP11-044	141	143	0.30	0.60	<0.20	260	<0.010	0.96	5.3	<50	0.37	4.4	2.0	0.39	3.0	53	45
009593	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP11-044	285.5	290.2	4.4	4.7	0.50	90	<0.010	1.1	2.9	1540	4.0	2.6	61	0.60	11	120	49
009594	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP11-044	348	350	3.4	2.1	<0.20	148	<0.010	7.5	1.9	720	1.2	1.8	40	0.78	10	62	38
009595	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP10-026	165.5	167	1.7	0.50	<0.20	279	<0.010	0.79	3.8	380	2.0	9.8	18	0.79	9.4	329	86
009596	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	SP10-026	73	75	4.2	<0.20	<0.20	149	0.11	0.16	3.2	1490	2.6	0.89	43	0.71	10	63	84
009597	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	SP10-026	60	62	5.6	0.20	0.40	109	0.020	<0.010	2.7	2340	3.3	0.69	62	4.1	7.4	41	61
009598	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP10-026	337	339	12	1.8	0.80	36	0.010	3.1	2.2	1650	4.2	0.88	136	0.90	6.9	115	29
009599	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP11-059	332	334	3.6	7.7	<0.20	22	0.020	9.1	1.2	1080	2.3	1.8	34	0.72	11	292	49
009700	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP11-038	191	193	5.8	3.8	<0.20	49	0.010	7.6	1.2	900	3.1	1.9	67	0.95	9.7	58	41
A00356151	Ore-Grade Materials	3:1 Aqua Regia	VBX	Portage	SP11-038	157	166	1.7	0.80	<0.20	101	<0.010	2.1	4.0	380	1.5	3.5	16	2.9	5.8	65	47
A00356152	Mine Rock	3:1 Aqua Regia	Vbx	Portage	SP11-037	75	77	0.70	<0.20	<0.20	37	<0.010	0.15	6.2	<50	0.18	2.5	8.0	0.32	5.6	18	18
A00356153	Mine Rock	3:1 Aqua Regia	POR	Portage	SP11-038	95	97	0.70	0.70	<0.20	218	<0.010	1.9	5.2	70	0.67	8.1	7.0	0.52	7.3	26	103
A00356154	Ore-Grade Materials	3:1 Aqua Regia	Vbx	Portage	SP11-037	157	159	1.2	0.80	<0.20	81	<0.010	1.2	9.4	100	0.32	8.2	10	0.22	7.8	8.0	54
A00356155	Mine Rock	3:1 Aqua Regia	POR	Portage	SP11-037	221	223	2.1	0.70	0.30	452	<0.010	2.0	9.9	370	2.4	11	18	2.6	11	195	131
A00356156	Mine Rock	3:1 Aqua Regia	VBX	Portage																		

Table B-6. Elemental Content Results

Sample ID	Classification	Digest Method ^(A)	Final Lithology Group	Zone	Drillhole	From	To	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Ti	U	V	W	Y	Zn	Zr
Units						m	m	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
10x Crustal Abundance (Price 1997)						220	220	20	0.5	23	3700	--	--	96	8.5	27	1200	12.5	1200	330	700	1650
A00356184	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP10-022	22	24	1.1	<0.20	<0.20	552	<0.010	0.10	21	530	1.4	5.6	17	0.95	18	67	113
A00356185	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP10-022	261	263	4.4	1.7	<0.20	71	<0.010	3.0	0.90	840	1.8	0.61	64	0.53	8.5	195	25
A00356186	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP10-022	334	336	3.9	8.5	<0.20	174	<0.010	21	1.2	580	1.9	2.7	24	0.93	17	157	59
A00356187	Mine Rock	3:1 Aqua Regia	POR	Portage	SP11-053	330	332	0.40	<0.20	<0.20	179	<0.010	0.50	13	70	0.39	3.5	4.0	0.59	11	127	65
A00356188	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP11-053	286	288	5.6	6.4	<0.20	53	<0.010	9.9	1.1	970	3.1	1.8	50	0.63	9.8	105	42
A00356189	Ore-Grade Materials	3:1 Aqua Regia	VBX	Portage	SP11-053	224	225	3.6	4.2	<0.20	40	<0.010	4.7	1.0	420	1.7	2.1	43	1.4	5.8	55	30
A00356190	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP10-022	379.3	381	1.8	1.1	<0.20	151	<0.010	1.0	5.2	630	1.3	2.4	25	0.53	8.8	169	52
A00356191	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP10-001	194.9	196.7	7.1	0.50	<0.20	108	<0.010	0.28	0.70	1380	2.8	0.26	127	2.0	12	402	27
A00356193	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP10-001	227	228	2.6	0.20	<0.20	160	<0.010	0.53	2.0	210	0.38	1.7	20	1.2	7.1	389	29
A00356194	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP11-033	238	239.5	0.60	5.7	<0.20	264	<0.010	11	5.2	150	0.93	5.4	12	1.1	6.2	190	90
A00356195	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP11-071	36	38	3.5	0.70	<0.20	418	<0.010	0.51	2.3	790	1.8	1.2	49	0.48	11	60	47
A00356196	Mine Rock	3:1 Aqua Regia	POR	Portage	SP11-071	120.8	121.8	0.60	1.0	<0.20	427	<0.010	1.6	5.0	330	1.6	5.6	11	0.61	6.9	2653	110
A00356197	Ore-Grade Materials	3:1 Aqua Regia	VBX	Portage	SP11-071	242.5	244.5	4.8	7.2	0.20	61	<0.010	12	1.4	660	2.8	2.7	45	0.92	11	190	47
A00356198	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP11-073	70	72	11	0.80	<0.20	89	<0.010	0.51	0.30	1080	3.6	0.35	90	1.1	6.0	74	23
A00356199	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP11-077	103	105	4.2	3.4	<0.20	31	<0.010	6.5	0.60	600	2.1	1.8	36	0.78	7.7	855	39
A00356200	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP11-077	137	139	11	1.3	0.30	27	<0.010	1.2	1.0	1430	4.7	1.9	98	0.59	8.5	116	45
009701	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP12-112	222	224	1.9	0.80	<0.20	218	<0.010	0.62	4.9	450	2.3	4.4	25	0.56	8.5	135	87
009702	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Camp	BL-0287	62.3	76.2	7.6	0.20	<0.20	262	<0.010	0.090	1.4	1350	2.8	1.9	53	11	7.2	735	47
009703	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Camp	BL-0287	111.2	125	5.4	<0.20	<0.20	57	<0.010	0.010	0.70	1850	0.30	0.12	68	0.26	5.4	73	5.9
09878	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP11-081	166.7	168.7	6.4	0.80	<0.20	149	<0.010	1.7	0.70	2140	4.1	1.9	71	2.1	6.5	82	45
09882	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP11-077	27	23	5.8	0.20	<0.20	43	<0.010	0.070	1.1	3550	10	1.4	64	0.46	9.3	96	23
09883	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP11-077	124	125	4.1	<0.20	0.30	85	<0.010	0.18	3.6	2090	2.5	0.81	49	2.6	8.5	69	93
09884	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP11-077	155	156	1.4	6.4	<0.20	430	<0.010	13	0.20	1620	5.3	3.4	90	0.51	14	115	30
09885	Ore-Grade Materials	3:1 Aqua Regia	VBX	Portage	SP11-077	163	164	3.6	2.4	<0.20	452	0.010	2.6	1.2	510	1.0	6.9	21	0.80	11	140	48
009866	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP11-078	139	140	5.8	<0.20	<0.20	91	<0.010	0.040	1.6	310	0.050	0.18	67	0.090	8.9	85	11
09867	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP11-077	197	198	3.5	0.50	0.30	237	<0.010	0.56	3.6	1370	2.6	1.1	33	1.6	12	94	91
09868	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP11-078	198	199	5.4	<0.20	<0.20	81	<0.010	0.46	1.6	670	0.82	0.42	82	1.4	10	93	19
09869	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP11-078	263	264	14	2.8	0.30	22	<0.010	5.2	2.0	2640	1.9	1.2	196	0.45	14	151	41
09870	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP11-078	383	385	4.3	0.70	0.30	489	<0.010	0.50	4.3	920	2.9	3.0	48	1.1	9.1	206	72
09871	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP11-080	29	31	1.9	1.2	1.1	215	<0.010	0.90	6.7	410	1.9	4.6	16	0.77	9.6	206	108
09872	Mine Rock	3:1 Aqua Regia	POR	Portage	SP11-080	120	122	0.90	0.70	0.50	289	<0.010	1.3	4.6	310	2.4	5.3	14	0.59	7.4	235	138
09873	Mine Rock	3:1 Aqua Regia	POR	Portage	SP11-080	172	174	0.40	1.0	0.30	288	<0.010	1.1	5.6	150	1.2	5.6	6.0	0.75	6.5	284	137
09874	Mine Rock	3:1 Aqua Regia	LAM	Portage	SP11-080	224.2	226.2	9.5	0.60	0.30	277	<0.010	0.48	3.8	1850	4.5	2.4	71	0.57	7.1	157	60
09875	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP11-080	266	267	1.7	1.7	<0.20	242	<0.010	2.5	5.4	320	1.3	2.5	17	0.73	7.6	109	64
09876	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP11-081	44.1	46.1	3.4	<0.20	<0.20	94	<0.010	0.050	2.0	450	0.45	0.28	37	0.13	5.8	107	24
09877	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP11-081	83.8	85.8	5.7	0.40	<0.20	124	<0.010	0.12	0.40	540	0.94	0.16	78	0.37	6.4	122	16
09879	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP11-083	42.5	44.5	7.5	5.1	<0.20	8.5	<0.010	8.6	0.30	1030	3.8	3.9	69	1.1	15	112	44
09880	Mine Rock	3:1 Aqua Regia	POR	Portage	SP11-083	234	236	0.70	0.70	0.40	201	<0.010	1.2	4.1	210	1.3	5.1	6.0	0.62	5.3	92	90
09881	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP11-084	39	41	4.7	6.7	<0.20	55	<0.010	10.0	1.8	310	2.1	4.6	43	1.6	11	115	65
09882	Mine Rock	3:1 Aqua Regia	POR	Portage	SP11-084	85	87	1.7	1.7	<0.20	143	<0.010	2.6	6.1	410	1.5	5.6	15	1.0	12	119	102
09883	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP11-084	138	140	4.0	1.3	<0.20	158	0.020	1.7	2.5	840	3.7	3.4	43	0.88	8.4	118	74
09884	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP11-094	84	86	2.1	0.30	<0.20	245	<0.010	0.34	2.3	210	0.22	1.5	7.0	0.93	13	70	58
09885	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP11-094	122.5	124.5	2.5	0.30	0.20	199	<0.010	0.070	1.9	460	0.25	0.49	16	1.0	8.0	79	49
09886	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP11-094	198.5	200.5	1.5	<0.20	<0.20	823	<0.010	0.32	17	600	1.4	4.8	15	0.27	10	181	85
09887	Mine Rock	3:1 Aqua Regia	POR	Portage	SP11-094	308	309	1.8	0.70	0.50	70	<0.010	3.2	2.6	170	1.0	4.4	10	0.60	4.3	89	65
09888	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP11-094	399	401	3.9	3.3	0.50	276	<0.010	5.0	2.9	380	4.0	4.5	49	3.1	7.5	769	77
09889	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP11-084	324.5	326.5	4.4	2.9	0.60	345	<0.010	4.1	5.3	730	2.2	4.5	65	11	15	321	64
09890	Mine Rock	3:1 Aqua Regia	POR	Portage	SP11-091	72	74	0.60	1.3	0.60	205	<0.010	2.1	12	<50	0.35	5.7	6.0	0.46	13	15	120
09891	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP11-091	82.2	84	5.8	2.7	<0.20	47	<0.010	3.0	1.3	1240	4.1	8.3	84	0.75	11	62	39
09892	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP11-083	146	148	3.4	7.8	<0.20	143	<0.010	9.2	1.0	400	1.9	3.6	33	0.82	11	219	39
09893	Ore-Grade Materials	3:1 Aqua Regia	VBX	Portage	SP11-091	168	170	5.4	3.7	0.30	143	<0.010	4.2	1.0	830	3.4	2.8	70	0.68	11	145	41
09894	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP11-083	133.9	135.9	1.8	1.1	0.60	79	<0.010	2.2	3.8	460	2.3	5.7	29	1.2	11	235	57
09895	Mine Rock	3:1 Aqua Regia	POR	Portage	SP11-083	187	189	0.30	0.90	<0.20	163	<0.010	0.77	3.6	110	0.96	5.2	4.0	0.62	5.0	64	70
09896	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP11-083	214	216	3.3	1.0	<0.20	206	<0.010	0.58	3.6	780	3.3	3.7	47	1.2	9.9	127	51
09898	Mine Rock	3:1 Aqua Regia	POR	Portage	SP12-134	236	238	0.20	<0.20	<0.20	596	<0.010	0.28	4.5	140	0.60	2.9	4.0	0.42	5.3	27	82
09899	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP12-134	82	84	2.6	0.70	<0.20	228	<0.010	1.3	1.5	460	0.61	0.42	25	12	7.7	909	35
09900	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	SP12-134	32	34	1.5	<0.20	<0.20	220	<0.010	0.060	1.8	220	0.25	0.74	17	0.47	6.8	160	30
R00017815	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Camp	BL-0280	10.67	11.28	3.6	<0.20	<0.20	114	0.10	0.020	2.6	1010	2.1						

Table B-6. Elemental Content Results

Sample ID	Classification	Digest Method ^(A)	Final Lithology Group	Zone	Drillhole	From	To	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Ti	U	V	W	Y	Zn	Zr
Units						m	m	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
10x Crustal Abundance (Price 1997)								220	0.5	23	3700	--	--	96	--	8.5	27	1200	12.5	330	700	1650
R00017801	Mine Rock	3:1 Aqua Regia	TRA	Camp	BL-0282D	52.95	53.46	2.4	<0.20	<0.20	98	<0.010	0.14	3.5	350	0.70	0.51	4.0	0.30	11	56	45
R00017908	Ore-Grade Materials	3:1 Aqua Regia	VBX	East Extension	BL-0319	25.3	25.66	2.2	0.20	<0.20	175	<0.010	0.38	2.2	260	1.7	0.95	7.0	9.6	12	40	85
R00017838	Mine Rock	3:1 Aqua Regia	TRA	Camp	BL-0282D	100.49	100.89	7.4	<0.20	<0.20	131	<0.010	<0.010	1.4	380	0.12	0.19	100	0.080	12	46	14
R00017839	Mine Rock	3:1 Aqua Regia	VBX	Camp	BL-0280	126.31	126.74	9.7	<0.20	<0.20	91	<0.010	0.21	1.4	480	0.080	0.30	101	0.31	101	74	14
R00017823	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Camp	BL-0283	24.78	25.91	7.1	<0.20	<0.20	27	<0.010	<0.010	2.1	720	0.090	0.27	79	0.30	13	77	32
R00017824	Ore-Grade Materials	3:1 Aqua Regia	And. tuf. metaseds	Camp	BL-0283	83.36	84.12	4.6	0.30	<0.20	72	<0.010	<0.010	1.9	410	0.30	0.46	51	3.3	11	127	34
R00017802	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Camp	BL-0284	11.28	12.19	11	<0.20	<0.20	14	<0.010	<0.010	2.5	780	0.070	0.63	123	0.20	11	96	28
R00017825	Mine Rock	3:1 Aqua Regia	POR	Camp	BL-0284	50.29	50.9	2.2	<0.20	<0.20	51	<0.010	<0.010	2.5	260	0.18	0.66	27	0.21	8.6	63	20
R00017803	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Camp	BL-0284	74.8	76.14	4.1	<0.20	<0.20	101	<0.010	0.090	1.6	440	0.53	0.24	47	0.17	11	51	21
R00017826	Ore-Grade Materials	3:1 Aqua Regia	VBX	Camp	BL-0285D	25.3	25.57	4.6	6.0	<0.20	81	<0.010	9.0	0.60	930	2.6	1.2	60	0.97	10	132	37
R00017804	Mine Rock	3:1 Aqua Regia	VBX	Camp	BL-0285D	46.73	47.46	4.5	1.6	<0.20	359	<0.010	0.53	8.0	870	2.3	15	47	4.8	16	142	69
R00017880	Mine Rock	3:1 Aqua Regia	TRA	Camp	BL-0285D	73.91	75.68	7.5	0.30	<0.20	173	<0.010	0.13	2.5	1210	2.3	0.55	119	0.51	13	98	51
R00017840	Mine Rock	3:1 Aqua Regia	TRA	Camp	BL-0285D	100.77	101.16	19	<0.20	<0.20	89	<0.010	<0.010	1.9	720	0.070	0.21	294	0.10	15	110	17
R00017841	Mine Rock	3:1 Aqua Regia	VBX	Camp	BL-0285D	125.43	126.46	4.9	<0.20	<0.20	61	<0.010	<0.010	0.70	2570	0.22	0.11	88	0.22	6.1	62	7.1
R00017842	Mine Rock	3:1 Aqua Regia	TRA	Camp	BL-0285D	143.59	144.11	6.7	0.40	<0.20	51	<0.010	0.030	3.0	1270	0.30	0.65	63	0.15	5.5	73	17
R00017805	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	BL-0286	10.42	11.86	1.8	0.70	<0.20	186	<0.010	0.41	3.8	170	1.0	2.5	21	0.76	9.4	138	50
R00017806	Ore-Grade Materials	3:1 Aqua Regia	And. tuf. metaseds	Portage	BL-0286	40.72	41.18	4.1	1.3	0.20	196	<0.010	0.68	1.5	660	1.0	0.48	30	16	8.8	33	41
R00017827	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Camp	BL-0287	57.91	58.64	5.6	0.40	<0.20	91	<0.010	0.020	1.2	240	0.14	1.0	53	0.56	15	80	19
R00017843	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Camp	BL-0287	118.41	118.9	3.1	<0.20	<0.20	78	<0.010	<0.010	3.6	290	0.050	0.42	41	0.060	11	63	33
R00017828	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Camp	BL-0288	24.99	26.12	7.7	<0.20	<0.20	159	<0.010	0.13	1.4	410	0.40	0.19	92	0.10	10	71	13
R00017829	Ore-Grade Materials	3:1 Aqua Regia	And. tuf. metaseds	Camp	BL-0288	60.2	60.56	9.1	0.70	<0.20	192	<0.010	1.5	1.2	590	1.5	0.35	86	0.080	11	62	22
R00017844	Ore-Grade Materials	3:1 Aqua Regia	And. tuf. metaseds	Camp	BL-0288	101.5	102.5	9.1	<0.20	<0.20	179	<0.010	0.060	1.3	440	0.30	0.31	86	0.16	14	70	19
R00017881	Ore-Grade Materials	3:1 Aqua Regia	POR	Portage	BL-0289	10.12	10.79	3.5	0.30	<0.20	8.9	<0.010	0.16	2.0	1060	2.0	0.95	72	1.1	12	111	27
R00017882	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	BL-0289	24.54	25.12	3.6	<0.20	<0.20	139	<0.010	0.090	3.1	810	1.2	0.52	56	1.1	14	31	58
R00017909	Mine Rock	3:1 Aqua Regia	TRA	Camp	BL-0282D	84.25	84.64	11	<0.20	0.60	156	<0.010	0.080	2.2	2900	5.3	0.30	167	0.35	14	143	37
R00017807	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	BL-0290	30.78	31.52	3.4	0.20	<0.20	198	<0.010	0.15	1.6	490	0.81	0.43	41	2.1	9.6	36	39
R00017830	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	BL-0290	51.82	52.73	2.9	0.20	<0.20	111	<0.010	0.030	2.6	420	0.55	0.47	60	24	12	30	49
R00017831	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Portage	BL-0290	74.22	74.43	7.1	<0.20	<0.20	88	0.020	0.030	1.7	390	0.15	0.20	167	3.6	9.4	58	16
R00017832	Mine Rock	3:1 Aqua Regia	POR	East Extension	BL-0293	10.67	11.09	0.80	<0.20	<0.20	623	<0.010	0.020	4.9	50	0.25	8.7	5.0	0.24	11	90	57
R00017833	Mine Rock	3:1 Aqua Regia	POR	East Extension	BL-0293	25.3	25.8	1.2	<0.20	<0.20	767	<0.010	0.030	4.2	50	0.25	3.0	7.0	0.26	9.0	141	74
R00017834	Mine Rock	3:1 Aqua Regia	POR	East Extension	BL-0293	48.89	49.68	0.90	<0.20	<0.20	490	<0.010	0.030	6.6	170	0.87	3.9	5.0	0.27	10	186	94
R00017883	Mine Rock	3:1 Aqua Regia	VBX	East Extension	BL-0294	8.93	10.42	0.80	<0.20	<0.20	578	<0.010	<0.010	5.9	170	1.0	5.0	5.0	0.43	10	44	82
R00017884	Mine Rock	3:1 Aqua Regia	VBX	East Extension	BL-0294	22.86	22.95	0.80	<0.20	<0.20	364	<0.010	<0.010	5.8	90	0.70	6.9	5.0	0.31	9.7	75	66
R00017885	Mine Rock	3:1 Aqua Regia	VBX	East Extension	BL-0294	49.38	50.81	7.3	0.20	0.20	293	<0.010	0.040	0.60	1640	3.8	3.0	66	5.1	8.3	96	38
R00017835	Mine Rock	3:1 Aqua Regia	VBX	East Extension	BL-0295	11.28	11.83	2.1	0.50	<0.20	103	<0.010	0.050	2.1	150	0.22	2.8	8.0	0.58	6.9	43	33
R00017808	Mine Rock	3:1 Aqua Regia	VBX	East Extension	BL-0295	74.52	74.98	3.4	<0.20	<0.20	188	<0.010	0.020	0.70	430	1.4	0.54	22	0.81	7.5	70	43
R00017845	Mine Rock	3:1 Aqua Regia	VBX	East Extension	BL-0295	111.86	112.72	3.6	<0.20	<0.20	178	<0.010	0.050	1.3	670	2.1	0.52	37	0.70	7.5	74	50
R00017846	Ore-Grade Materials	3:1 Aqua Regia	VBX	East Extension	BL-0295	124.05	124.66	5.0	1.0	<0.20	450	<0.010	0.10	1.5	1606	0.86	1.1	34	3.2	9.1	245	54
R00017886	Mine Rock	3:1 Aqua Regia	TRA	Portage	BL-0297	10	10.79	5.2	0.50	<0.20	181	<0.010	0.050	1.7	1270	3.6	0.29	53	0.35	8.6	50	36
R00017887	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	BL-0297	24.84	25.12	2.8	0.30	<0.20	203	<0.010	0.54	1.5	420	0.97	0.39	29	0.71	10	396	39
R00017888	Mine Rock	3:1 Aqua Regia	TRA	Portage	BL-0297	47.85	48.46	5.6	0.30	<0.20	75	<0.010	0.020	0.90	240	0.29	0.20	48	0.24	8.3	61	17
R00017889	Mine Rock	3:1 Aqua Regia	TRA	Portage	BL-0297	83.39	83.7	5.2	<0.20	<0.20	90	<0.010	<0.010	1.0	230	0.30	0.47	59	4.5	9.0	80	26
R00017809	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Camp	BL-0298	8.84	10.36	5.2	<0.20	0.30	114	<0.010	0.030	2.2	1840	3.6	0.44	58	0.97	7.1	49	40
R00017836	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Camp	BL-0298	20.79	22.25	3.3	<0.20	<0.20	124	<0.010	0.030	1.4	1060	2.6	0.41	45	0.67	5.9	33	30
R00017890	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Camp	BL-0299	12.8	13.17	4.0	<0.20	<0.20	139	<0.010	<0.010	1.8	260	0.18	0.39	83	0.13	17	72	16
R00017891	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Camp	BL-0299	99.18	99.76	13	0.50	<0.20	194	0.010	0.35	1.2	2310	7.3	0.44	103	0.12	13	92	40
R00017892	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Camp	BL-0299	124.91	125.21	8.0	<0.20	<0.20	141	<0.010	<0.010	1.0	400	0.36	0.15	71	0.13	11	78	10
R00017810	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds	Camp	BL-0299	149.32	150.27	30	<0.20	<0.20	106	<0.010	0.060	0.60	3040	8.6	0.15	153	<0.050	12	51	4.6
R00017893	Mine Rock	3:1 Aqua Regia	VBX	Camp	BL-0302	23.16	23.35	3.2	0.30	<0.20	81	<0.010	0.19	1.9	1080	1.9	0.42	59	2.1	10.0	35	69
R00017894	Ore-Grade Materials	3:1 Aqua Regia	VBX	Camp	BL-0302	30.48	31.52	9.4	<0.20	<0.20	24	<0.010	0.020	0.80	420	0.13	0.050	105	0.24	5.4	147	8.1
R00017895	Mine Rock	3:1 Aqua Regia	VBX	Camp	BL-0302	43.01	43.25	4.4	<0.20	<0.20	120	<0.010	0.020	1.3	1100	1.7	0.26	53	0.53	12	45	35
R00017811	Mine Rock	3:1 Aqua Regia	VBX	Camp	BL-0303	45.78	46.54	6.5	0.20	<0.20	70	<0.010	0.020	0.80	1250	3.9	1.5	57	9.9	8.2	69	45
R00017812	Mine Rock	3:1 Aqua Regia	POR	Camp	BL-0303	71.48	71.78	5.6	<0.20	<0.20	77	<0.010	0.030	1.4	1380	3.5	0.45	65	0.62	9.0	95	61
R00017837	Mine Rock	3:1 Aqua Regia	VBX	Camp	BL-0304D	11.22	12.04	6.2	0.30	<0.20	138	<0.010	<0.010	1.1	1970	3.0	0.23	69	0.35	6.2	84	39
R00017813	Ore-Grade Materials	3:1 Aqua Regia	VBX	Camp	BL-0304D	49.23	50.9	5.3	0.70	<0.20	102	<0.010	0.49	1.7	1100	1.9	0.42	100	21	11	62	85
R00017814	Mine Rock	3:1 Aqua Regia	TRA	Camp	BL-0304D	91.29	91.9	7.9</														

Table B-6. Elemental Content Results

Sample ID	Classification	Digest Method ^(A)	Final Lithology Group	Zone	Drillhole	From	To	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Ti	U	V	W	Y	Zn	Zr
Units						m	m	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
10x Crustal Abundance (Price 1997)						220	0.5	23	2300	--	--	96	--	96	8.5	27	1200	12.5	330	700	1650	
R00017876	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	BL-0309	10.36	11.28	4.3	0.80	<0.20	168	<0.010	1.1	2.2	2050	3.8	0.44	70	0.51	7.3	93	47
R00017877	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	BL-0309	24.99	26.21	1.7	0.30	<0.20	106	<0.010	0.70	140	0.40	0.26	24	1.3	7.2	61	10	
R00017878	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	East Extension	BL-0316	51.82	52.62	3.2	<0.20	<0.20	95	<0.010	<0.010	0.80	50	0.12	0.090	41	0.060	7.3	76	5.7
R00017881	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	BL-0310	10.15	12.15	1.8	0.20	<0.20	132	<0.010	<0.010	0.70	110	0.28	0.28	25	1.0	8.5	65	8.9
R00017882	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	BL-0310	50.69	51.24	2.6	<0.20	<0.20	157	0.020	0.15	1.6	1260	2.8	0.32	35	0.35	6.3	47	30
R00017883	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	BL-0310	75.19	75.8	4.9	0.40	<0.20	109	<0.010	0.17	1.8	740	1.5	0.47	49	0.63	5.7	85	29
R00017884	Ore-Grade Materials	3:1 Aqua Regia	And tuf. metaseds	Portage	BL-0311	101.5	102.72	3.2	0.30	<0.20	102	<0.010	0.85	2.3	970	1.4	0.95	45	1.8	11	31	70
R00017885	Ore-Grade Materials	3:1 Aqua Regia	And tuf. metaseds	Portage	BL-0312	51.51	53.74	3.4	0.60	<0.20	173	<0.010	2.2	3.5	1600	3.0	2.6	61	0.82	11	29	60
R00017886	Ore-Grade Materials	3:1 Aqua Regia	And tuf. metaseds	Portage	BL-0312	100.58	102.11	3.6	0.40	<0.20	86	<0.010	0.57	3.0	1080	2.4	0.75	63	1.8	11	53	63
R00017887	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	East Extension	BL-0313	21.95	23.47	1.7	<0.20	<0.20	202	<0.010	<0.010	1.6	220	0.24	0.78	10	0.58	6.0	72	34
R00017888	Ore-Grade Materials	3:1 Aqua Regia	And tuf. metaseds	East Extension	BL-0313	50.9	52.43	2.3	0.60	<0.20	132	<0.010	0.79	0.90	650	1.8	0.40	27	13	8.7	46	40
R00017888	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	East Extension	BL-0313	99.67	100.58	3.9	<0.20	<0.20	210	<0.010	0.020	2.9	2400	7.0	1.0	43	2.2	13	190	112
R00017889	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	East Extension	BL-0313	122.53	124.05	4.1	<0.20	<0.20	217	<0.010	<0.010	2.8	1710	2.4	0.80	43	11	13	79	61
R00017884	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	East Extension	BL-0314	10.97	11.67	2.3	<0.20	<0.20	319	<0.010	<0.010	2.0	450	1.0	0.98	21	5.7	13	111	61
R00017885	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	East Extension	BL-0315	43.28	44.5	2.1	0.20	<0.20	267	<0.010	0.10	1.5	330	0.46	0.62	15	13	7.3	60	43
R00017886	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	East Extension	BL-0315	74.68	76.2	3.1	<0.20	<0.20	105	<0.010	0.020	3.6	1340	2.7	0.77	33	3.1	11	113	71
R00017867	Ore-Grade Materials	3:1 Aqua Regia	And tuf. metaseds	East Extension	BL-0315	100.4	101.19	6.2	0.40	<0.20	724	<0.010	0.090	1.1	310	0.82	0.70	18	0.70	17	2267	46
R00017868	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	East Extension	BL-0315	125.88	127.1	4.5	<0.20	<0.20	173	<0.010	<0.010	2.3	1900	5.2	0.72	56	4.4	11	161	74
R00017869	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	East Extension	BL-0316	29.87	31.39	2.0	<0.20	<0.20	217	<0.010	0.040	2.5	540	0.64	0.51	18	3.0	13	73	45
R00017879	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	East Extension	BL-0316	98.45	99.97	2.1	<0.20	<0.20	254	<0.010	<0.010	2.4	340	0.14	0.34	12	0.71	11	58	37
R00017870	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	East Extension	BL-0316	125.58	127.1	2.1	<0.20	<0.20	266	<0.010	<0.010	1.9	360	0.77	1.1	13	11	13	99	67
R00017904	Mine Rock	3:1 Aqua Regia	VBX	East Extension	BL-0319	10.24	10.67	1.7	0.50	<0.20	113	0.020	0.090	4.2	300	0.94	1.5	10	8.5	7.7	29	61
R00017905	Mine Rock	3:1 Aqua Regia	VBX	East Extension	BL-0319	44.81	45.72	3.3	<0.20	<0.20	590	<0.010	<0.010	4.9	130	0.36	0.92	33	0.48	9.7	38	46
R00017910	Mine Rock	3:1 Aqua Regia	VBX	East Extension	BL-0344	20.54	21.31	8.6	<0.20	0.20	460	<0.010	0.070	5.2	2610	4.5	1.0	86	0.38	10	100	73
R00017911	Mine Rock	3:1 Aqua Regia	TRA	East Extension	BL-0346	6.4	7.07	3.5	0.50	<0.20	144	<0.010	0.020	2.3	100	0.71	2.2	29	6.1	10.0	257	57
R00017912	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	East Extension	BL-0343	50.17	50.81	3.3	0.20	<0.20	581	<0.010	0.060	4.2	570	1.5	0.73	34	0.37	9.2	61	49
R00017913	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	BL-0323	93.57	94.49	12	<0.20	0.30	41	<0.010	<0.010	1.7	1970	0.16	0.31	122	0.14	8.8	67	17
R00017914	Mine Rock	3:1 Aqua Regia	TRA	Portage	BL-0323	150.42	150.88	4.2	<0.20	<0.20	48	<0.010	0.010	0.70	720	0.11	0.10	70	<0.050	4.2	78	4.8
R00017915	Mine Rock	3:1 Aqua Regia	TRA	Portage	BL-0323	253.14	254.05	0.90	2.5	<0.20	44	<0.010	0.87	4.5	50	0.15	2.8	15	0.73	8.4	488	39
R00017916	Mine Rock	3:1 Aqua Regia	TRA	Portage	BL-0323	300.26	301.17	13	2.4	0.30	421	0.010	0.82	2.6	1480	3.9	5.9	151	0.98	17	313	74
R00017917	Mine Rock	3:1 Aqua Regia	TRA	Portage	BL-0323	400.81	401.73	12	0.50	<0.20	117	<0.010	0.55	1.6	1720	3.1	0.57	123	0.85	7.8	130	32
R00017918	Ore-Grade Materials	3:1 Aqua Regia	VBX	East Extension	BL-0326	24.44	24.87	4.5	1.5	<0.20	308	<0.010	0.49	1.0	380	1.9	1.1	50	0.97	12	229	34
R00017919	Mine Rock	3:1 Aqua Regia	VBX	East Extension	BL-0326	47.91	48.59	9.0	<0.20	0.40	438	<0.010	<0.010	5.3	2880	4.8	1.2	90	0.25	11	82	91
R00017920	Mine Rock	3:1 Aqua Regia	TRA	East Extension	BL-0326	65.62	66.26	3.3	<0.20	<0.20	184	<0.010	<0.010	2.2	550	0.53	3.7	30	3.4	9.3	104	50
R00017921	Mine Rock	3:1 Aqua Regia	VBX	East Extension	BL-0327	10.12	10.82	8.6	<0.20	0.50	101	<0.010	<0.010	2.1	3440	4.8	0.31	72	14	8.9	118	36
R00017922	Mine Rock	3:1 Aqua Regia	VBX	East Extension	BL-0327	75.71	76.2	0.90	0.40	<0.20	348	<0.010	0.12	7.7	240	1.1	5.2	7.0	0.49	10.0	45	104
R00017923	Mine Rock	3:1 Aqua Regia	VBX	East Extension	BL-0331	15.94	16.76	6.4	0.40	<0.20	154	<0.010	0.030	1.5	970	1.3	9.7	63	9.4	15	76	63
R00017925	Ore-Grade Materials	3:1 Aqua Regia	VBX	East Extension	BL-0329	24.69	25.24	7.2	<0.20	0.70	113	<0.010	0.060	2.6	2550	4.7	0.47	88	27	14	85	58
R00017926	Mine Rock	3:1 Aqua Regia	VBX	East Extension	BL-0328	50.99	52.06	4.6	<0.20	0.20	149	0.030	0.010	2.7	2530	4.5	0.58	45	5.8	12	80	69
R00017927	Mine Rock	3:1 Aqua Regia	POR	East Extension	BL-0328	71.32	71.99	0.60	0.20	<0.20	664	<0.010	0.15	6.0	50	0.26	4.4	3.0	0.80	10	18	80
R00017928	Mine Rock	3:1 Aqua Regia	VBX	East Extension	BL-0330	37.34	38.1	5.9	<0.20	<0.20	280	<0.010	0.010	1.7	950	1.8	7.5	43	2.9	12	64	63
R00017929	Mine Rock	3:1 Aqua Regia	TRA	East Extension	BL-0330	74.49	75.13	2.7	<0.20	<0.20	208	<0.010	0.010	1.0	520	0.80	1.3	16	5.4	12	102	48
R00017930	Ore-Grade Materials	3:1 Aqua Regia	And tuf. metaseds	Portage	BL-0289	46.85	47.06	5.5	1.1	<0.20	79	<0.010	0.53	2.4	1650	2.4	0.88	93	5.3	14	43	80
R00017931	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	East Extension	BL-0333	15	15.64	4.4	<0.20	0.20	128	<0.010	<0.010	3.6	1910	2.2	0.41	44	0.44	9.3	116	47
R00017932	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	East Extension	BL-0333	40.36	41.06	2.5	<0.20	<0.20	141	<0.010	<0.010	2.5	940	1.8	1.0	27	1.2	13	115	55
R00017933	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	East Extension	BL-0333	75.74	76.54	2.0	<0.20	<0.20	441	<0.010	<0.010	2.2	520	0.30	0.82	8.0	40	15	82	44
R00017934	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	East Extension	BL-0336	25.15	25.91	3.2	<0.20	<0.20	308	<0.010	<0.010	2.3	670	0.87	1.2	21	0.86	12	68	53
R00017935	Ore-Grade Materials	3:1 Aqua Regia	And tuf. metaseds	East Extension	BL-0336	50.63	51.33	5.3	<0.20	<0.20	422	<0.010	0.010	2.2	690	1.1	0.59	36	0.82	11	114	54
R00017936	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	East Extension	BL-0336	65.99	66.63	4.0	<0.20	<0.20	162	<0.010	0.020	3.1	1480	2.2	0.45	36	0.27	9.2	127	48
R00017937	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	East Extension	BL-0337	10.03	11.25	2.8	0.20	<0.20	219	<0.010	0.19	1.7	750	1.1	0.69	25	0.82	6.7	101	38
R00017938	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	East Extension	BL-0337	25.51	26.09	2.8	<0.20	<0.20	130	<0.010	<0.010	1.8	940	1.6	0.56	24	0.79	7.8	69	39
R00017939	Mine Rock	3:1 Aqua Regia	TRA	East Extension	BL-0347	10.67	11.58	3.0	0.30	<0.20	396	<0.010	0.020	1.0	80	0.36	0.53	21	0.50	6.9	49	38
R00017940	Mine Rock	3:1 Aqua Regia	VBX	East Extension	BL-0345	33.83	34.81	2.1	0.30	<0.20	426	<0.010	0.040	7.4	990	1.7	2.9	23	0.94	12	46	112
R00017941	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	East Extension	BL-0338	12.25	12.8	1.8	<0.20	0.40	139	<0.010	0.020	5.9	830	0.79	1.7	11	5.9	16	146	108
R00017942	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	East Extension	BL-0338	24.84	25.3	3.7	0.20	0.50	207	<0.010	0.050	6.1	1670	1.4	2.0	19	2.2	21	200	170
R00017943	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Camp	BL-03																	

Table B-6. Elemental Content Results

Sample ID	Classification	Digest Method ^(A)	Final Lithology Group	Zone	Drillhole	From	To	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Ti	U	V	W	Y	Zn	Zr	
Units						m	m	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
10x Crustal Abundance (Price 1997)						220	0.5	23	3700	--	--	96	--	96	8.5	27	1200	12.5	330	700	1650		
W-007	Ore-Grade Materials	3:1 Aqua Regia	And tuf. metaseds	Portage	PM-DH-01	48	49	9.8	1.7	0.30	58	<0.010	4.1	1.9	2450	5.7	1.5	111	0.41	9.1	220	38	
W-008	Ore-Grade Materials	3:1 Aqua Regia	POR	Portage	PM-DH-02	150	151	0.50	1.9	0.20	300	<0.010	4.7	12	130	1.2	6.8	11	1.1	9.6	71	134	
W-009	Ore-Grade Materials	3:1 Aqua Regia	POR	Portage	PM-DH-01	198	199	3.7	4.4	<0.20	67	<0.010	9.0	1.4	1090	2.5	1.2	59	0.50	9.3	167	33	
W-010	Mine Rock	3:1 Aqua Regia	TRA	Portage	PM-DH-02	302	303	7.7	1.2	0.30	116	<0.010	1.6	2.1	2440	3.3	1.4	114	0.38	7.6	273	22	
W-011	Mine Rock	3:1 Aqua Regia	POR	Portage	PM-DH-02	78	79	0.30	2.9	0.20	260	<0.010	2.4	11	<50	0.16	5.0	3.0	0.37	11	6.0	97	
W-012	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	PM-DH-03	349	350	5.2	7.7	0.20	33	<0.010	12	1.3	500	1.9	2.6	29	2.5	11	79	71	
W-013	Ore-Grade Materials	3:1 Aqua Regia	VBX	Portage	PM-DH-02	200	201	8.6	2.7	0.30	52	<0.010	8.1	1.2	1250	5.4	1.2	104	1.2	6.8	120	30	
W-014	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	PM-DH-03	245	246	5.4	8.3	<0.20	72	<0.010	12	1.5	1170	2.8	2.6	47	1.0	12	144	49	
W-015	Ore-Grade Materials	3:1 Aqua Regia	And tuf. metaseds	Portage	PM-DH-02	299	300	9.2	5.9	0.50	34	<0.010	10	2.6	2140	4.4	2.4	94	1.7	16	152	59	
W-016	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SM20-001	5	6	1.6	0.90	0.30	487	<0.010	1.5	24	490	2.1	7.8	25	2.2	19	82	221	
W-017	Ore-Grade Materials	3:1 Aqua Regia	POR	Portage	PM-DH-02	249	250	0.30	1.9	<0.20	374	<0.010	5.1	4.6	250	1.2	4.0	12	5.0	4.4	97	79	
W-018	Mine Rock	3:1 Aqua Regia	VBX	Portage	SM20-001	150	151	0.90	0.30	0.20	316	<0.010	0.46	3.6	<50	0.27	5.5	9.0	0.57	8.1	98	49	
W-019	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	PM-DH-03	51	52	2.3	5.4	0.40	89	0.010	7.8	3.7	60	0.63	3.7	12	0.85	13	393	59	
W-020	Mine Rock	3:1 Aqua Regia	TRA	Portage	SM20-001	254	255	2.8	1.8	0.20	364	<0.010	3.1	3.4	390	2.1	5.9	41	1.1	16	194	88	
W-021	Ore-Grade Materials	3:1 Aqua Regia	VBX	Portage	PM-DH-03	97	98	3.1	4.4	0.40	163	<0.010	7.2	6.6	350	1.6	4.3	28	1.1	14	69	101	
W-022	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SM20-001	311	312	3.7	0.60	<0.20	42	<0.010	1.2	2.1	620	1.5	0.69	91	0.36	6.7	100	31	
W-023	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	PM-DH-03	150	151	5.2	1.6	<0.20	92	<0.010	3.6	1.7	2170	5.5	1.8	73	0.54	7.3	86	28	
W-024	Mine Rock	3:1 Aqua Regia	VBX	Portage	SM20-002	100	101	0.90	<0.20	0.20	871	<0.010	0.18	16	370	1.4	4.8	14	0.51	13	49	134	
W-025	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	PM-DH-03	200	201	7.2	4.9	0.60	85	<0.010	8.6	2.5	2360	4.5	3.1	105	0.45	12	126	44	
W-026	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SM20-002	388	389	4.1	3.1	<0.20	60	<0.010	5.5	1.9	2180	2.8	0.87	70	0.41	6.3	69	28	
W-027	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	SM20-001	348	349	11	0.30	0.30	21	<0.010	0.24	0.70	4450	11	0.39	149	0.22	3.8	87	23	
W-028	Ore-Grade Materials	3:1 Aqua Regia	VBX	Portage	SM20-002	301	302	0.60	0.40	0.30	278	<0.010	6.2	12	150	1.2	6.8	14	12	8.1	93	112	
W-029	Mine Rock	3:1 Aqua Regia	TRA	Portage	SM20-001	100	101	1.9	0.70	0.30	96	<0.010	1.9	26	410	3.3	16	28	2.3	23	189	225	
W-030	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SM20-002	263	264	2.8	2.1	0.30	297	<0.010	5.6	5.1	240	1.8	6.4	44	0.72	8.2	79	88	
W-031	Mine Rock	3:1 Aqua Regia	VBX	Portage	SM20-001	50	51	5.0	1.4	0.40	109	<0.010	2.1	15	300	3.7	38	36	1.7	25	837	137	
W-032	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP11-088	9	10	2.4	1.9	<0.20	92	<0.010	2.7	1.3	500	1.5	1.1	26	2.2	6.8	88	47	
W-033	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	SGH20-001	108	109	2.2	0.20	<0.20	26	<0.010	0.030	0.40	1590	0.070	0.10	55	0.080	30	91	4.8	
W-034	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	SP11-088	97	98	1.8	<0.20	<0.20	175	<0.010	0.16	1.7	<50	0.15	0.29	34	0.32	6.1	48	28	
W-035	Mine Rock	3:1 Aqua Regia	TRA	Portage	SM20-001	200	201	0.60	0.40	0.30	171	<0.010	1.7	4.2	<50	0.17	5.3	5.0	0.58	9.8	8.0	73	
W-036	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP11-088	344	345	346	1.2	2.3	<0.20	498	0.020	5.7	12	70	0.68	9.6	9.0	2.9	11	420	109
W-037	Mine Rock	3:1 Aqua Regia	VBX	Portage	SM20-002	50	51	0.20	3.0	<0.20	510	<0.010	0.63	10	60	0.34	7.0	3.0	0.31	8.3	67	122	
W-038	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP11-088	249	250	1.4	0.70	<0.20	961	<0.010	1.8	3.2	260	0.84	19	15	0.42	10	332	89	
W-039	Mine Rock	3:1 Aqua Regia	TRA	Portage	SM20-002	150	151	1.6	<0.20	<0.20	286	<0.010	0.020	4.9	230	0.63	1.5	19	0.29	7.1	67	30	
W-040	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SM20-003	401	402	4.1	6.8	<0.20	48	<0.010	9.4	0.70	1490	2.7	3.6	53	1.3	14	167	44	
W-041	Mine Rock	3:1 Aqua Regia	TRA	Portage	SM20-002	13	14	7.3	<0.20	0.30	260	0.010	0.080	3.7	2010	3.3	0.52	93	0.12	7.2	98	23	
W-042	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Camp	SP12-136	24	26	6.5	<0.20	<0.20	57	<0.010	<0.010	0.50	460	0.16	0.050	70	0.37	6.2	85	6.7	
W-043	Mine Rock	3:1 Aqua Regia	VBX	Portage	SM20-002	199	200	1.0	2.6	0.30	262	<0.010	3.4	35	140	1.2	21	9.0	1.8	24	344	118	
W-044	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	SP12-151	59	61	5.1	<0.20	<0.20	27	<0.010	1.7	1.2	60	0.070	0.34	78	0.080	8.6	277	6.9	
W-045	Ore-Grade Materials	3:1 Aqua Regia	VBX	Portage	SM20-002	355	356	2.9	3.1	0.30	440	<0.010	5.8	5.9	320	2.4	5.2	37	3.5	10	134	110	
W-046	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	SP12-151	98.5	100.5	1.9	0.20	<0.20	35	<0.010	0.35	0.90	<50	0.14	0.18	30	0.52	6.6	244	12	
W-047	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	SP11-088	150	151	2.2	<0.20	<0.20	208	<0.010	0.30	1.8	330	0.51	0.35	31	3.7	7.6	37	40	
W-048	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP12-151	147	149	9.4	3.3	0.30	34	<0.010	5.5	1.4	1590	2.8	1.3	101	3.0	7.8	84	36	
W-049	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	SP11-088	51	52	2.0	<0.20	<0.20	168	<0.010	0.020	1.4	210	0.20	0.19	18	0.34	4.5	61	23	
W-050	Mine Rock	3:1 Aqua Regia	TRA	Camp	SP12-135	99	101	6.9	0.20	<0.20	88	<0.010	0.030	1.0	1310	1.8	0.24	88	0.54	6.9	82	37	
W-051	Mine Rock	3:1 Aqua Regia	POR	Portage	SP11-088	199	200	0.30	0.50	<0.20	491	<0.010	0.20	5.1	200	0.79	5.9	60	0.52	6.0	47	120	
W-052	Mine Rock	3:1 Aqua Regia	VBX	Camp	SP12-135	42	43	4.5	0.40	<0.20	167	<0.010	0.040	1.0	990	2.6	0.71	49	13	7.6	88	43	
W-053	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP11-088	300	301	2.1	0.90	<0.20	228	0.020	1.5	3.5	590	1.9	3.6	26	0.78	8.3	114	88	
W-054	Mine Rock	3:1 Aqua Regia	TRA	Camp	SP12-135	128.7	130	4.3	1.0	<0.20	402	<0.010	0.33	3.5	1370	2.2	2.8	51	11	9.3	128	66	
W-055	Ore-Grade Materials	3:1 Aqua Regia	And tuf. metaseds	Portage	PM-DH-01	16.5	18	2.0	2.1	<0.20	17	<0.010	3.2	1.6	660	1.8	0.69	29	1.3	6.3	100	44	
W-056	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Camp	SP12-132	117	118.6	3.3	<0.20	0.20	48	<0.010	0.030	2.6	1140	2.3	0.54	58	0.61	9.1	65	65	
W-057	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	SGH20-009	17	18	4.5	<0.20	<0.20	72	<0.010	<0.010	1.7	410	0.050	0.22	65	<0.050	7.7	81	20	
W-058	Mine Rock	3:1 Aqua Regia	VBX	Camp	SP12-132	24	26	9.3	<0.20	0.30	83	<0.010	0.050	0.90	2160	2.8	0.24	103	30	6.3	124	34	
W-059	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Camp	SP12-136	96	98	8.6	<0.20	<0.20	48	<0.010	<0.010	0.70	300	0.36	0.14	94	22	7.9	101	18	
W-060	Mine Rock	3:1 Aqua Regia	VBX	Camp	SP12-132	54	55.4	8.9	0.60	0.20	101	<0.010	0.18	0.70	1410	2.3	0.21	90	0.83	5.3	57	41	
W-061	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Camp	SP12-136	72	74	5.9	0.20	<0.20	58	<0.010	<0.010	0.80	290	0.40	0.090	79	11	7.6	107	15	
W-062	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Camp	SP12-132	87	89	5.6	<0.20	0.20	81	<0.010	<0.010	1.5	1160	2.0	0.31	69	0.63	7.3	86	46	
W-063	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Camp	SP12-136	54	56	7.4	<0.20	<0.20	84	<0.010	<0.010	0.80	300	0.25	0.060	93	3.9	9.1	86	12	
W-064	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	Portage	SP12-123	6	8	2.1	<0.20	<0.20	453	<0.010	0.050	3.8	750	1.4	1.4	27	0.47	8.7	70	49	
W-065	Mine Rock	3:1 Aqua Regia	VBX	Camp	SP12-135	21	23																

Table B-6. Elemental Content Results

Sample ID	Classification	Digest Method ^(A)	Final Lithology Group	Zone	Drillhole	From	To	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Ti	U	V	W	Y	Zn	Zr
Units						m	m	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
10x Crustal Abundance (Price 1997)						220	0.5	23	3700	--	--	96	--	96	8.5	27	1200	12.5	330	700	1650	
W-082	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	SP12-120	51	52	1.8	<0.20	<0.20	154	<0.010	0.37	2.2	<50	0.16	0.59	29	0.23	6.3	53	34
W-084	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	SP12-120	150	152	4.1	1.0	<0.20	98	<0.010	2.0	1.8	830	1.2	0.34	83	0.30	9.8	42	46
W-086	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	SP12-120	243	245	8.2	4.8	0.30	162	<0.010	5.9	1.4	1380	2.5	0.93	88	1.3	8.4	114	50
W-088	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-113	490	401	5.3	1.7	0.20	85	<0.010	3.7	2.7	1690	2.8	3.1	75	2.5	8.4	151	40
W-090	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-113	447	448	4.0	1.5	0.20	26	<0.010	0.69	2.0	2470	3.8	1.1	76	0.45	6.6	133	40
W-091	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	SP12-129	189	191.1	3.8	0.40	<0.20	171	<0.010	0.010	1.7	650	0.92	0.31	50	0.58	15	77	15
W-092	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	SP11-107	198	199	11	0.20	0.50	179	0.02	0.27	1.1	2010	2.7	0.36	107	0.35	5.3	45	16
W-094	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	SP11-107	7	8	10	<0.20	<0.20	108	<0.010	0.010	1.6	610	0.070	0.21	110	0.20	11	118	20
W-096	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	SP11-107	301	302	6.4	0.50	<0.20	178	<0.010	0.61	0.50	1290	2.6	0.49	81	0.90	5.8	95	33
W-098	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	SP11-107	339	340	3.1	0.20	<0.20	180	<0.010	0.18	1.8	570	1.2	0.41	36	2.2	7.0	58	45
W-100	Mine Rock	3:1 Aqua Regia	POR	Portage	SP11-109	20	21	0.50	<0.20	<0.20	746	<0.010	0.28	6.2	100	0.39	4.3	4.0	0.35	9.8	73	74
W-102	Mine Rock	3:1 Aqua Regia	POR	Portage	SP11-109	39	39	0.70	<0.20	<0.20	1187	<0.010	0.030	7.9	270	0.89	3.8	6.0	0.23	10	41	118
W-103	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-123	477	479	2.7	0.80	<0.20	112	<0.010	1.9	2.0	830	1.3	1.8	63	0.32	9.6	142	24
W-105	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-123	501	503	2.9	0.40	<0.20	22	<0.010	0.45	2.0	730	1.2	1.0	79	0.59	8.0	99	30
W-107	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP12-123	351	353	1.5	1.0	0.20	177	<0.010	2.8	5.2	600	2.1	3.1	21	1.1	8.2	115	69
W-109	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP12-123	393	394	3.1	2.3	0.30	221	<0.010	3.0	5.4	420	2.7	8.4	32	1.4	13	172	74
W-111	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-123	519	521	5.6	<0.20	0.30	35	<0.010	0.44	1.8	2310	2.5	0.96	88	0.32	9.6	116	21
W-112	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	SP12-221	73	75	2.3	<0.20	<0.20	72	<0.010	0.040	1.4	500	0.090	0.24	48	0.20	7.5	52	21
W-113	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	SP12-113	7	8	2.4	<0.20	<0.20	397	<0.010	0.030	2.9	660	1.1	0.44	19	0.47	9.7	88	40
W-115	Mine Rock	3:1 Aqua Regia	POR	Portage	SP12-120	207	209	2.4	<0.20	<0.20	327	<0.010	2.8	5.0	540	1.3	2.0	25	0.75	9.2	98	75
W-117	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	SP12-120	105	107	4.0	0.20	<0.20	94	<0.010	0.46	1.7	470	0.15	0.31	78	1.0	8.4	93	22
W-119	Mine Rock	3:1 Aqua Regia	POR	Portage	SP12-113	51	52	0.70	<0.20	<0.20	577	<0.010	0.040	6.3	170	0.48	3.0	6.0	0.22	9.0	60	84
W-121	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-113	103	104	0.40	<0.20	<0.20	381	<0.010	0.30	1.7	1180	2.0	2.0	36	0.67	9.3	130	46
W-123	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP12-113	201	202	3.5	0.70	<0.20	396	<0.010	0.77	2.3	960	2.6	3.7	37	0.46	8.6	306	51
W-124	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	SG13-202	49	51	6.5	<0.20	<0.20	22	0.010	<0.010	2.0	540	0.060	0.54	89	0.18	7.8	105	12
W-125	Mine Rock	3:1 Aqua Regia	POR	Portage	SP12-113	300	301	1.7	1.9	0.30	344	0.010	2.1	5.6	370	2.4	6.0	24	1.6	8.3	102	79
W-126	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	SG13-202	94	96	2.8	<0.20	<0.20	58	<0.010	0.010	2.0	520	0.65	0.70	46	0.34	6.9	96	20
W-127	Mine Rock	3:1 Aqua Regia	POR	Portage	SP12-113	250	251	2.4	1.4	0.30	289	<0.010	2.6	4.7	450	2.5	5.7	40	1.1	8.3	141	92
W-128	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	SG13-200	98	100	4.7	0.20	0.20	43	<0.010	0.090	0.60	1570	0.49	0.10	120	0.51	4.7	107	4.6
W-129	Mine Rock	3:1 Aqua Regia	LAM	Portage	SP12-113	340	341	33	<0.20	0.80	43	<0.010	0.12	0.70	4590	3.3	18	227	2.9	37	325	14
W-130	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	SG13-200	50	52	11	0.20	0.30	25	<0.010	0.050	1.3	900	0.18	0.22	192	0.21	9.2	137	7.1
W-131	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	SP11-107	103	104	5.0	<0.20	<0.20	62	<0.010	<0.010	1.9	320	0.080	1.3	51	0.63	11	84	25
W-132	Ore-Grade Materials	3:1 Aqua Regia	VBX	Portage	SG13-201	185	186	12	2.9	0.50	49	<0.010	4.5	1.1	1430	3.1	1.5	126	1.2	9.2	1346	40
W-133	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	SP11-107	46	47	5.0	<0.20	<0.20	94	<0.010	0.010	0.90	320	0.20	0.22	39	9.4	7.2	132	14
W-134	Mine Rock	3:1 Aqua Regia	VBX	Portage	SG13-200	182	184	7.6	1.1	0.40	25	<0.010	3.4	2.6	2670	3.5	0.99	115	0.60	9.0	78	27
W-135	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	SP11-107	150	151	5.6	0.30	0.30	96	<0.010	0.10	3.3	1230	1.8	1.9	64	7.8	7.7	42	48
W-137	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	SP11-107	249	250	7.1	0.70	0.30	85	<0.010	1.6	1.9	2010	3.2	1.7	81	6.1	7.6	255	53
W-139	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP12-113	150	151	4.7	5.9	<0.20	343	<0.010	3.7	1.8	360	0.88	1.2	28	0.81	10	2667	50
W-141	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	SP11-109	5	6	1.7	<0.20	<0.20	338	<0.010	0.070	11	610	1.0	3.9	19	0.56	13	43	134
W-150	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	SP13-219	96	98	27	1.9	0.60	17	<0.010	3.9	1.5	3170	2.7	0.78	267	0.49	12	163	28
W-151	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	SP13-221	127	129	2.0	0.50	<0.20	63	<0.010	1.2	0.80	90	0.18	0.21	38	6.2	7.3	85	11
W-162	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	PM-DH-04	296	297	4.6	0.50	<0.20	47	0.020	0.63	0.40	400	1.3	0.37	54	1.5	5.3	129	18
W-163	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	SG13-201	51	53	3.4	0.60	0.20	23	<0.010	1.8	1.4	250	0.68	0.30	74	1.9	9.3	180	19
W-164	Ore-Grade Materials	3:1 Aqua Regia	VBX	Portage	PM-DH-04	249	250	5.3	4.0	0.20	214	0.010	6.8	2.7	230	1.6	1.4	37	1.1	17	87	79
W-165	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	SG13-202	151	153	3.2	0.40	<0.20	52	<0.010	1.2	1.7	790	0.99	0.87	55	0.48	7.5	135	27
W-166	Ore-Grade Materials	3:1 Aqua Regia	And tuf metaseds	Portage	PM-DH-04	200	201	11	3.2	<0.20	25	<0.010	4.0	0.40	2740	5.7	2.8	137	0.76	6.7	154	33
W-167	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	SG13-202	199	201	5.5	<0.20	0.20	24	<0.010	0.70	2.1	1200	1.1	0.69	93	0.32	12	95	31
W-168	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	PM-DH-04	55	56	9.3	<0.20	<0.20	74	<0.010	0.020	0.90	70	0.13	0.19	79	0.060	7.7	77	16
W-169	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	SG13-201	99	101	4.2	0.70	<0.20	14	<0.010	0.63	0.80	210	0.16	0.21	69	0.23	8.4	128	8.8
W-170	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	PM-DH-04	100	101	3.8	<0.20	<0.20	96	<0.010	0.040	0.80	650	1.4	0.31	54	3.1	9.1	62	14
W-171	Ore-Grade Materials	3:1 Aqua Regia	And tuf metaseds	Portage	SG13-201	150	152	4.2	3.0	<0.20	15	<0.010	7.3	1.5	1810	2.5	1.0	53	0.63	9.0	153	40
W-173	Mine Rock	3:1 Aqua Regia	VBX	Portage	SG13-200	200	202	4.9	2.4	0.50	54	<0.010	3.0	2.2	1100	1.8	3.4	61	1.0	9.6	267	44
W-179	Mine Rock	3:1 Aqua Regia	And tuf metaseds	Portage	SP13-219	30	32	3.7	0.20	<0.20	12	<0.010	0.56	1.8	340	0.24	0.41	62	0.26	8.1	227	14
W-180	Mine Rock	3:1 Aqua Regia	POR	Portage	SP13-216	42	44	0.30	1.2	0.30	168	<0.010	0.93	4.8	110	0.67	4.3	4.0	0.50	4.3	70	72
W-192	Mine Rock	3:1 Aqua Regia	TRA	Portage	SG13-206	199	201	4.5	0.30	0.20	225	<0.010	0.10	2.3	640	1.9	7.2	33	1.7	12	98	88
W-194	Mine Rock	3:1 Aqua Regia	POR	Portage	SG13-205	49	51	0.50	0.60	<0.20	298	<0.010	1.3	5.3	140	0.57	4.0	6.0	0.52	5.9	115	119
W-196	Mine Rock	3:1 Aqua Regia	VBX	Portage	SG13-204	154	156	2.4	0.20	<0.20	391	<0.010	0.23	4.1	680	1.2	2.2	33	0.51	10	174	74
W-198	Mine Rock	3:1 Aqua Regia	TRA	Portage	SG13-204	103	105	1.9	2.0	<0.20	177	<0.010	2.7	1.4	410	0.71	1.7	17	0.62	8.3	845	36

Table B-6. Elemental Content Results

Sample ID	Classification	Digest Method ^(A)	Final Lithology Group	Zone	Drillhole	From	To	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Ti	U	V	W	Y	Zn	Zr
Units						m	m	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
10x Crustal Abundance (Price 1997)						220	0.5	23	3700	--	--	--	--	96	8.5	27	1200	12.5	330	700	1650	
W-219	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds.	Portage	SG13-206	100	102	5.9	0.60	<0.20	8.6	<0.010	0.35	0.30	1180	2.6	0.51	72	1.1	6.4	200	22
W-220	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds.	Camp	SP11-030	12	13	5.4	0.20	<0.20	127	0.010	0.040	1.2	1060	2.5	0.54	54	0.55	7.4	50	26
W-221	Mine Rock	3:1 Aqua Regia	POR	Portage	SG13-205	97	99	0.70	0.90	<0.20	312	<0.010	1.3	4.4	210	1.2	8.1	11	0.64	7.0	660	149
W-222	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds.	Camp	SP11-030	150	151	5.4	<0.20	<0.20	111	<0.010	0.11	1.4	490	0.15	0.22	69	<0.050	8.2	71	15
W-223	Mine Rock	3:1 Aqua Regia	POR	Portage	SG13-205	201	203	0.40	0.40	<0.20	539	<0.010	0.83	4.4	100	0.45	4.4	4.0	0.57	6.0	52	125
W-224	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds.	Camp	SP11-030	100	101	3.1	0.20	<0.20	145	<0.010	0.050	0.80	340	0.19	0.18	45	0.060	11	77	11
W-225	Ore-Grade Materials	3:1 Aqua Regia	VBX	Portage	SG13-205	28	30	3.4	1.4	<0.20	212	<0.010	4.3	2.3	980	2.2	1.5	48	0.69	8.9	255	57
W-226	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SP11-050	150	151	7.6	1.4	0.30	19	<0.010	2.6	1.6	1450	1.8	0.51	95	1.1	8.3	117	41
W-227	Mine Rock	3:1 Aqua Regia	POR	Portage	SG13-204	52	54	0.20	<0.20	0.20	225	<0.010	0.14	9.9	<50	0.19	3.8	2.0	0.60	4.8	29	57
W-228	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP11-050	201	202	2.5	2.1	0.20	218	<0.010	3.1	3.7	610	1.6	3.0	40	1.6	9.4	177	80
W-229	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds.	Portage	SG13-203	151	153	3.5	<0.20	<0.20	108	<0.010	0.020	3.2	700	0.44	0.44	62	0.26	8.6	59	25
W-230	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds.	Portage	SP11-050	190	191	2.5	0.20	<0.20	78	<0.010	0.35	1.0	290	0.41	0.18	47	0.26	6.8	24	20
W-231	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-180	198	200	8.9	<0.20	0.40	41	<0.010	0.32	1.0	2740	1.9	0.51	129	0.36	6.8	458	11
W-232	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds.	Portage	SP11-050	9	10	5.8	0.30	<0.20	70	<0.010	0.40	2.1	710	0.33	0.32	74	0.39	7.1	61	30
W-233	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-180	56.5	57.9	6.6	<0.20	<0.20	45	<0.010	0.45	1.7	970	2.2	0.15	114	0.45	11	154	20
W-234	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds.	Portage	SP11-050	51	52	11	0.20	<0.20	147	<0.010	0.23	1.1	270	0.54	0.22	126	0.10	8.7	77	15
W-235	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds.	Portage	SP12-174	102	104	6.0	<0.20	<0.20	44	<0.010	0.10	1.7	430	0.070	0.39	86	0.16	6.5	87	12
W-236	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds.	Portage	SP12-180	102	104	3.3	0.40	<0.20	66	<0.010	1.4	1.2	140	0.42	0.10	54	0.15	7.9	347	17
W-237	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds.	Portage	SP12-174	54	56	3.6	<0.20	<0.20	70	<0.010	0.070	1.7	420	0.060	0.30	63	0.14	7.6	75	13
W-238	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds.	Portage	SP12-180	150	152	7.4	1.2	0.30	84	<0.010	2.0	1.3	1360	2.4	0.19	81	0.21	10	892	22
W-239	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds.	Portage	SP12-174	150	152	8.4	0.30	0.40	78	<0.010	0.22	2.2	1460	1.7	0.56	103	0.53	12	117	27
W-240	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-185	99	101	4.4	0.30	<0.20	116	<0.010	0.47	1.6	90	0.32	0.26	60	0.63	5.8	36	28
W-241	Mine Rock	3:1 Aqua Regia	TRA	East Extension	SP11-067	79	80	6.7	<0.20	<0.20	376	<0.010	<0.010	4.8	2030	2.9	0.98	61	0.79	11	82	68
W-243	Mine Rock	3:1 Aqua Regia	TRA	East Extension	SP11-067	59	60	8.3	<0.20	0.30	354	<0.010	0.020	4.7	2380	5.1	0.89	83	0.26	9.8	88	70
W-245	Mine Rock	3:1 Aqua Regia	TRA	East Extension	SP11-067	70	71	6.8	<0.20	0.20	520	<0.010	0.020	4.6	2400	3.7	0.89	66	0.34	9.6	80	58
W-247	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds.	Portage	SP11-055	22	23	8.6	1.9	0.20	78	<0.010	3.1	1.5	1140	3.2	0.53	93	0.46	6.3	247	35
W-249	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds.	Portage	SP11-064	199	200	4.8	<0.20	<0.20	128	<0.010	0.050	1.4	560	0.070	0.21	57	0.13	11	75	14
W-251	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds.	Portage	SP11-064	298	299	5.6	<0.20	<0.20	51	<0.010	0.11	1.8	640	0.46	0.72	78	0.20	8.9	88	21
W-253	Ore-Grade Materials	3:1 Aqua Regia	And. tuf. metaseds.	Camp	SP11-030	50	51	6.2	1.1	<0.20	188	<0.010	0.32	2.6	760	2.2	1.6	39	0.82	13	61	56
W-254	Mine Rock	3:1 Aqua Regia	TRA	Portage	SGH20-009	145	146	4.1	<0.20	<0.20	37	<0.010	0.34	1.2	290	0.54	0.58	62	0.12	8.4	97	16
W-256	Mine Rock	3:1 Aqua Regia	TRA	Portage	SGH20-007	17	18	1.0	<0.20	<0.20	579	<0.010	0.050	7.0	150	0.63	3.4	5.0	0.37	10	36	84
W-261	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds.	Portage	SP11-064	4	5	4.9	<0.20	<0.20	72	<0.010	0.040	1.6	580	0.060	0.25	63	0.090	9.8	98	16
W-262	Mine Rock	3:1 Aqua Regia	POR	Portage	SM20-003	107	108	2.8	1.8	0.20	726	<0.010	0.91	11	490	2.0	7.3	24	0.99	19	104	160
W-263	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds.	Portage	SP12-174	204	206	8.8	<0.20	0.30	37	0.010	0.23	2.5	1210	1.0	0.96	122	0.26	11	163	24
W-264	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds.	Portage	SGH20-009	74	75	7.0	<0.20	<0.20	92	<0.010	0.060	1.7	640	0.11	0.43	86	0.13	7.9	41	20
W-265	Mine Rock	3:1 Aqua Regia	VBX	Portage	SP12-185	147	149	3.2	0.30	<0.20	108	<0.010	0.34	1.6	240	0.12	0.27	40	4.1	5.7	53	26
W-266	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SM20-003	298	299	15	3.9	0.30	67	<0.010	6.5	1.1	2820	2.8	2.9	215	0.66	16	120	35
W-267	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-185	51	53	2.3	<0.20	<0.20	97	<0.010	0.13	1.6	250	0.62	0.26	34	0.31	4.5	44	27
W-268	Ore-Grade Materials	3:1 Aqua Regia	TRA	Portage	SM20-003	356	357	11	3.4	0.30	44	<0.010	5.3	1.5	1190	2.6	4.4	93	0.85	14	235	73
W-269	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds.	Portage	SG13-206	175	177	3.7	0.50	<0.20	239	<0.010	0.060	<0.200	70	0.41	0.35	38	0.71	6.6	42	12
W-270	Ore-Grade Materials	3:1 Aqua Regia	POR	Portage	SM20-003	254	255	7.0	5.8	0.30	311	<0.010	6.1	5.2	630	2.3	6.8	71	1.5	17	186	62
W-271	Mine Rock	3:1 Aqua Regia	TRA	Portage	SP12-185	9	11	7.6	<0.20	0.20	95	<0.010	0.15	1.4	610	1.1	0.28	95	0.55	5.6	85	27
W-272	Mine Rock	3:1 Aqua Regia	TRA	Portage	SGH20-006	304	305	5.3	16	<0.20	195	<0.010	48	1.8	250	1.3	4.1	19	0.62	12	377	62
W-273	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds.	Camp	SP11-030	199	200	13	0.50	<0.20	29	<0.010	0.080	0.40	1500	0.75	0.43	130	0.15	6.2	321	18
W-274	Mine Rock	3:1 Aqua Regia	TRA	Portage	SGH20-006	352	353	6.1	8.3	<0.20	166	<0.010	9.2	1.3	900	1.6	0.55	69	1.4	9.5	62	46
W-275	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds.	Portage	SGH20-001	43	44	2.7	<0.20	<0.20	21	<0.010	0.010	0.30	2030	0.18	0.070	65	0.15	3.3	92	3.8
W-278	Mine Rock	3:1 Aqua Regia	TRA	Portage	SGH20-006	17	18	5.2	2.0	<0.20	88	<0.010	4.0	1.2	620	1.5	0.27	47	0.77	7.8	99	28
W-280	Mine Rock	3:1 Aqua Regia	TRA	Portage	SGH20-006	110	111	4.5	0.50	<0.20	136	<0.010	0.89	1.2	370	0.70	0.27	32	1.0	4.7	110	26
W-283	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds.	Portage	SGH20-009	29	30	3.9	0.30	<0.20	83	<0.010	0.52	1.5	420	0.060	0.20	46	0.22	8.3	161	16
W-290	Mine Rock	3:1 Aqua Regia	TRA	Portage	SGH20-006	155	156	2.5	0.30	<0.20	203	<0.010	0.060	2.3	450	0.14	0.42	24	2.8	10.0	83	36
W-295	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds.	Portage	SGH20-009	54	55	6.6	<0.20	<0.20	103	<0.010	0.020	1.0	490	0.060	0.12	77	0.070	8.7	64	11
W-297	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds.	Portage	SGH20-009	104	105	3.5	<0.20	<0.20	48	0.020	0.030	0.70	1490	0.10	0.080	112	0.29	4.5	76	8.0
W-299	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds.	Portage	SGH20-007	44	45	3.1	0.60	<0.20	175	0.010	0.23	2.5	220	0.23	1.4	19	0.89	10	148	41
W-301	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds.	Portage	SGH20-004	36	37	4.2	<0.20	<0.20	263	0.020	0.030	1.6	920	1.6	1.6	40	1.2	8.0	90	59
W-302	Mine Rock	3:1 Aqua Regia	TRA	Portage	SGH20-006	229	230	10	1.2	0.30	391	0.010	1.4	3.2	1880	3.9	1.4	77	0.41	5.8	142	88
W-303	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds.	Portage	SGH20-004	11	12	5.8	0.70	<0.20	80	<0.010	0.040	1.3	290	0.12	0.17	70	0.41	8.2	53	29
W-304	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds.	Portage	SGH20-001	16	17	1.9	<0.20	<0.20	22	<0.010	<0.010	0.80	2200	0.12	0.13	62	0.36	4.1	72	11
W-305	Mine Rock	3:1 Aqua Regia	And. tuf. metaseds.	Portage	SGH20-004	19	20	7.0														

Table B-6. Elemental Content Results

Sample ID	Classification	Digest Method ^(A)	Final Lithology Group	Zone	Drillhole	From	To	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Ti	U	V	W	Y	Zn	Zr
Units						m	m	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
10x Crustal Abundance (Price 1997)						220	0.5	23	23	3700	--	--	96	--	8.5	27	1200	12.5	330	700	1650	
M112041	Mine Rock	3:1 Aqua Regia	TRA	East Extension	SM21-001	34	35	0.90	<0.20	<0.20	393	<0.010	0.060	6.7	70	0.31	4.1	5.0	0.44	8.6	63	36
M112065	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	East Extension	SM21-001	71	72	1.0	1.1	0.20	262	<0.010	0.25	0.30	3020	4.7	0.20	86	0.66	3.8	123	22
M112057	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	East Extension	SM21-001	65	66	8.3	<0.20	0.30	565	<0.010	0.040	4.6	2740	4.3	0.90	90	0.44	8.5	78	51
M112051	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	East Extension	SM21-001	59.53	61	7.7	<0.20	0.30	440	<0.010	0.040	4.7	2560	4.7	0.89	85	0.55	8.8	97	81
M112068	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	East Extension	SM21-001	74	75	13	16.0	0.30	208	<0.010	0.13	0.30	2880	4.1	0.15	104	2.5	3.5	124	18
M112074	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	East Extension	SM21-001	79	80	13	0.30	<0.20	514	<0.010	0.11	<0.20	790	1.2	0.080	103	0.10	3.4	78	14
M112078	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	East Extension	SM21-001	83	84.2	13	0.20	0.30	358	<0.010	0.090	0.60	3890	5.9	0.23	118	0.38	3.8	140	35
M112086	Mine Rock	3:1 Aqua Regia	TRA	East Extension	SM21-001	89	90	1.2	<0.20	<0.20	210	<0.010	0.060	5.4	490	1.2	2.6	13	0.32	7.9	54	111
M112089	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	East Extension	SM21-002	4	5.4	2.3	<0.20	0.20	165	<0.010	0.030	4.3	1320	2.5	1.2	16	9.5	13	64	62
M112092	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	East Extension	SM21-002	9	10	2.7	<0.20	<0.20	116	<0.010	0.040	2.5	960	1.8	0.61	36	18	8.0	81	50
M112105	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	East Extension	SM21-002	21	22	5.1	<0.20	0.40	174	<0.010	0.010	3.5	2940	3.5	0.55	62	1.1	8.5	106	36
M112103	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	East Extension	SM21-002	19	20	4.0	<0.20	0.40	209	0.090	0.020	4.0	2190	3.0	0.59	41	1.3	9.4	100	24
M112108	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	East Extension	SM21-002	22	24	3.6	<0.20	0.30	172	<0.010	0.020	2.9	1760	2.4	0.43	41	1.2	7.3	77	49
M112119	Mine Rock	3:1 Aqua Regia	TRA	East Extension	SM21-002	31	32	0.70	<0.20	<0.20	478	<0.010	0.040	5.8	110	0.57	3.8	6.0	0.35	8.2	67	92
M112122	Mine Rock	3:1 Aqua Regia	TRA	East Extension	SM21-002	34	35	0.70	<0.20	<0.20	402	<0.010	0.15	6.0	120	0.65	4.0	7.0	0.35	8.2	214	95
M112128	Mine Rock	3:1 Aqua Regia	TRA	East Extension	SM21-002	39	40	0.80	<0.20	<0.20	694	<0.010	0.090	6.1	230	1.1	3.7	8.0	0.38	8.7	42	127
M112133	Mine Rock	3:1 Aqua Regia	TRA	East Extension	SM21-002	44	45	0.70	<0.20	0.20	439	<0.010	0.050	5.6	100	0.46	3.8	6.0	0.37	8.1	57	107
M112139	Mine Rock	3:1 Aqua Regia	And tuf. metaseds	East Extension	SM21-002	49	50	8.6	<0.20	0.40	690	<0.010	0.060	4.8	2990	5.2	0.86	90	0.42	8.2	81	36
M112149	Mine Rock	3:1 Aqua Regia	TRA	East Extension	SM21-002	61	62	0.90	<0.20	<0.20	336	<0.010	0.11	9.1	190	0.79	5.1	7.0	1.3	10.0	46	86
M112153	Mine Rock	3:1 Aqua Regia	TRA	East Extension	SM21-002	65	66	0.90	0.30	<0.20	315	<0.010	0.18	6.7	120	0.55	4.9	8.0	1.2	9.1	53	91
M112158	Mine Rock	3:1 Aqua Regia	TRA	East Extension	SM21-002	69	70	0.90	<0.20	<0.20	365	<0.010	0.080	6.6	160	0.65	3.8	8.0	0.91	8.5	43	101
M112163	Mine Rock	3:1 Aqua Regia	TRA	East Extension	SM21-002	74	75	0.80	0.30	<0.20	310	<0.010	0.20	6.8	140	0.73	4.2	7.0	1.6	8.9	32	99
ABA-071	Mine Rock	4-Acid	And tuf. metaseds	East Extension	BL-0013	2.44	3.66	20	0.50	<1.0	672	<0.27	0.025	6.1	3720	3.6	1.5	164	3.6	13	92	129
ABA-072	Mine Rock	4-Acid	And tuf. metaseds	East Extension	BL-0013	60.96	62.18	20	1.0	<1.0	920	<0.22	0.025	5.4	3650	4.3	1.3	155	2.9	12	94	123
ABA-070	Mine Rock	4-Acid	POR	East Extension	BL-0013	120.4	121.62	3.5	1.0	<0.60	508	<0.16	0.20	5.0	1440	4.0	5.2	48	4.1	9.1	64	196
ABA-078	Mine Rock	4-Acid	And tuf. metaseds	East Extension	BL-0014	2.74	4.27	17	2.0	<1.6	394	<0.68	0.025	5.4	4940	3.8	8.4	105	8.0	26	350	211
ABA-079	Mine Rock	4-Acid	VBX	East Extension	BL-0014	50.9	52.43	21	2.0	<1.3	101	<0.48	0.025	2.2	6370	5.5	3.7	185	17	17	333	150
ABA-080	Mine Rock	4-Acid	VBX	East Extension	BL-0014	98.76	100.28	18	2.0	<1.5	488	<0.73	0.025	4.1	6360	3.9	2.4	124	17	21	103	208
ABA-017	Mine Rock	4-Acid	POR	East Extension	BL-0054	50.29	51.82	4.9	1.0	<0.70	1040	<0.21	0.050	19	1250	7.2	5.1	90	3.6	30	179	170
ABA-015	Mine Rock	4-Acid	And tuf. metaseds	East Extension	BL-0054	99.67	101.35	17	1.0	<0.40	529	<0.12	0.050	0.40	3700	1.5	0.30	116	4.4	7.0	136	47
ABA-021	Mine Rock	4-Acid	And tuf. metaseds	East Extension	BL-0054	157.95	159.41	18	1.0	<0.90	197	<0.13	0.090	1.4	2100	1.6	1.6	118	3.7	11	166	68
ABA-019	Mine Rock	4-Acid	And tuf. metaseds	East Extension	BL-0054	216.26	217.11	15	2.0	<1.6	220	<0.47	0.025	3.1	4530	1.9	4.8	133	13	14	110	118
ABA-056	Mine Rock	4-Acid	And tuf. metaseds	East Extension	BL-0114	50.29	51.82	14	1.0	<1.7	125	<0.72	0.14	5.2	4170	8.1	3.1	94	24	23	127	198
ABA-054	Mine Rock	4-Acid	POR	East Extension	BL-0114	158.5	160.02	3.3	1.0	<0.80	1595	<0.15	0.090	6.8	1060	4.7	5.3	36	7.2	11	79	264
ABA-055	Mine Rock	4-Acid	POR	East Extension	BL-0114	217.93	218.85	1.2	1.0	<0.80	739	<0.17	0.38	6.3	980	4.4	6.3	29	4.4	9.1	549	211
ABA-036	Mine Rock	4-Acid	VBX	East Extension	BL-0162	49.68	51.21	6.1	1.0	<0.70	595	<0.19	0.21	8.7	1960	5.2	8.3	65	5.6	13	96	155
ABA-033	Mine Rock	4-Acid	And tuf. metaseds	East Extension	BL-0223	2.59	3.65	15	2.0	<1.0	338	<0.45	0.11	3.6	4900	3.1	2.8	120	10	19	217	155
ABA-043	Ore-Grade Materials	4-Acid	And tuf. metaseds	East Extension	BL-0223	49.38	50.9	18	1.0	<0.90	427	<0.26	0.050	5.0	3760	4.7	1.3	148	5.9	12	119	115
ABA-037	Ore-Grade Materials	4-Acid	VBX	East Extension	BL-0223	99.06	100.58	6.2	1.0	<0.90	531	<0.20	0.45	5.4	2190	4.1	7.3	75	4.4	11	108	191
ABA-042	Mine Rock	4-Acid	And tuf. metaseds	East Extension	BL-0223	157.58	160.58	15	1.0	<1.3	211	<0.64	0.025	3.7	7080	2.2	1.1	150	6.5	14	119	164
ABA-044	Mine Rock	4-Acid	POR	East Extension	BL-0223	218.85	220.37	2.0	0.50	<0.70	580	<0.14	0.070	4.5	1010	3.9	6.4	34	3.8	8.1	121	234
ABA-034	Mine Rock	4-Acid	POR	East Extension	BL-0223	277.67	279.2	1.8	1.0	<0.70	1925	<0.17	0.025	4.0	1040	3.0	3.9	26	4.1	6.4	64	248
ABA-035	Mine Rock	4-Acid	And tuf. metaseds	East Extension	BL-0223	343.2	344.06	22	3.0	<1.3	293	<0.60	0.40	3.2	8710	2.3	1.2	199	16	20	89	176
ABA-004	Mine Rock	4-Acid	POR	East Extension	BL-0246	41.15	42.21	4.0	1.0	<0.90	774	<0.17	0.025	9.0	1200	6.1	8.7	42	4.4	14	199	280
ABA-003	Mine Rock	4-Acid	And tuf. metaseds	East Extension	BL-0266	1.22	2.62	12	2.0	<0.60	676	<0.19	0.050	4.3	2870	2.2	4.6	118	9.6	12	457	94
ABA-002	Mine Rock	4-Acid	And tuf. metaseds	East Extension	BL-0266	61.57	62.79	20	2.0	<1.6	159	<0.72	0.025	4.2	6930	2.3	1.4	122	10	22	147	215
ABA-001	Mine Rock	4-Acid	And tuf. metaseds	East Extension	BL-0266	106.68	107.9	21	2.0	<1.2	192	<0.51	0.025	2.4	6510	3.0	0.90	165	11	13	113	148
ABA-067	Mine Rock	4-Acid	And tuf. metaseds	East Extension	BL-0370	60.56	61.39	17	1.0	<1.4	163	<0.65	0.025	3.5	6450	4.2	1.4	145	7.9	16	135	179
ABA-068	Mine Rock	4-Acid	And tuf. metaseds	East Extension	BL-0370	118.87	119.91	15	1.0	<1.1	194	<0.49	0.025	5.5	3940	6.2	2.5	74	10	26	60	251
ABA-069	Mine Rock	4-Acid	And tuf. metaseds	East Extension	BL-0370	159.41	160.63	17	1.0	<1.5	282	<0.73	0.11	4.4	6830	5.4	1.6	123	18	20	110	207
ABA-016	Ore-Grade Materials	4-Acid	And tuf. metaseds	Portage	BL-0004	1.83	3.05	25	2.0	<0.70	202	<0.25	0.050	2.1	6740	7.4	3.0	198	18	14	83	97
ABA-014	Mine Rock	4-Acid	And tuf. metaseds	Portage	BL-0004	60.35	61.57	22	2.0	<0.60	149	<0.24	0.025	0.70	6090	2.5	0.20	149	2.5	12	86	63
ABA-013	Mine Rock	4-Acid	And tuf. metaseds	Portage	BL-0068	48.77	50.29	19	1.0	<0.80	119	<0.32	0.025	1.3	4890	0.63	0.40	136	1.5	13	111	83
ABA-009	Mine Rock	4-Acid	And tuf. metaseds	Portage	BL-0068	159.11	160.63	17	3.0	<1.3	260	<0.25	0.30	2.8	3120	5.9	2.5	127	12	15	118	128
ABA-011	Ore-Grade Materials	4-Acid	And tuf. metaseds	Portage	BL-0068	214.88	216.41	36	1.0	<0.70	219	<0.070	0.58	0.90	3760	4.7	1.7	233	11	11	154	85
ABA-007	Mine Rock	4-Acid	And tuf. metaseds	Portage	BL-0068	277.06	278.59	14	2.0	<1.9	253	<0.47	0.84	7.4	2650	4.1	3.3	52	11	34	107	339
ABA-005	Mine Rock	4-Acid	And tuf. metaseds	Portage	BL-0068	335.58	337.11	21	2.0	<0.80	237	<0.090	1.1	2.3	2390	7.5	2.8	167	7.9	13	153	105
ABA-038	Mine Rock	4-Acid	And tuf. metaseds	Camp	BL-0098	1.83	3.35	14	1.0	<0.70	220</											

Table B-6. Elemental Content Results

Sample ID	Classification	Digest Method ^(A)	Final Lithology Group	Zone	Drillhole	From	To	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Ti	U	V	W	Y	Zn	Zr
Units						m	m	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
10x Crustal Abundance (Price 1997)						220	220	0.5	23	3700	--	--	96	8.5	27	1200	12.5	1200	12.5	330	700	1650
ABA-076	Mine Rock	4-Acid	And. tuf. metaseds	Camp	BL-0288	59.47	60.2	30	2.0	<0.70	246	<0.19	0.31	1.5	5330	1.5	0.60	173	2.0	16	66	84
ABA-077	Ore-Grade Materials	4-Acid	And. tuf. metaseds	Camp	BL-0288	101.5	102.5	28	2.0	<0.60	209	<0.38	0.090	1.8	6710	0.92	0.70	181	2.7	17	91	96
ABA-078	Ore-Grade Materials	4-Acid	POR	Portage	BL-0289	2.93	3.08	21	3.0	<0.80	163	<0.24	0.28	2.3	4550	2.1	0.80	193	11	16	109	118
ABA-079	Mine Rock	4-Acid	POR	Portage	BL-0289	23.87	24.08	24	3.0	<0.60	202	<0.81	0.20	4.0	11100	2.6	1.0	172	8.9	20	52	213
ABA-074	Ore-Grade Materials	4-Acid	POR	Portage	BL-0289	47.12	47.27	28	3.0	<0.50	115	<0.36	0.49	4.4	7790	3.7	1.1	346	18	21	57	183
ABA-081	Mine Rock	4-Acid	And. tuf. metaseds	Camp	BL-0302	2.59	2.77	23	2.0	<0.80	193	<0.48	0.40	2.5	8470	3.6	0.70	217	6.2	16	137	132
ABA-082	Mine Rock	4-Acid	And. tuf. metaseds	Camp	BL-0302	23.78	24.7	27	2.0	<1.5	155	<0.59	0.090	2.8	10200	4.2	0.80	253	14	17	85	152
ABA-083	Mine Rock	4-Acid	And. tuf. metaseds	Camp	BL-0302	46.63	47.55	25	2.0	<0.80	164	<0.44	0.025	2.2	6830	2.4	0.60	187	4.9	15	48	110
ABA-059	Mine Rock	4-Acid	And. tuf. metaseds	Camp	BL-0307	1.22	2.41	22	1.0	<0.90	141	<0.41	0.025	1.8	6480	2.0	0.50	175	1.8	14	99	107
ABA-060	Mine Rock	4-Acid	And. tuf. metaseds	Camp	BL-0307	41.45	42.15	14	1.0	<1.0	557	<0.43	0.17	3.3	3930	2.2	1.1	119	5.3	18	48	133
ABA-061	Mine Rock	4-Acid	And. tuf. metaseds	Camp	BL-0307	79.8	80.1	30	1.0	<1.1	154	<0.52	0.025	2.6	8560	0.98	0.70	228	2.0	18	87	130
ABA-028	Mine Rock	4-Acid	And. tuf. metaseds	Camp	BL-0354	53.95	55.14	30	2.0	<0.80	133	<0.35	0.050	0.80	9590	4.2	0.30	231	13	9.5	155	90
ABA-029	Mine Rock	4-Acid	And. tuf. metaseds	Camp	BL-0354	162.76	163.68	31	2.0	<0.80	120	<0.63	0.10	3.1	11200	4.8	1.8	260	9.3	22	498	172
ABA-030	Mine Rock	4-Acid	And. tuf. metaseds	Camp	BL-0354	221.41	221.83	33	2.0	<0.70	209	<0.33	0.025	1.7	6240	0.36	0.40	174	1.5	19	64	72
ABA-115	Mine Rock	4-Acid	TRA	Camp	SP10-023	219	220	16	0.50	<1.4	158	<0.70	0.025	3.9	5780	1.1	0.90	141	2.6	15	86	157
ABA-112	Mine Rock	4-Acid	TRA	Camp	SP10-023	279	280	32	0.50	<0.50	193	<0.12	1.1	0.40	3490	0.79	0.20	205	3.1	14	101	51
ABA-113	Mine Rock	4-Acid	TRA	Camp	SP11-090	159	160	29	0.50	<0.70	182	<0.52	0.025	2.3	8880	2.1	0.90	222	4.6	16	83	118
ABA-114	Mine Rock	4-Acid	And. tuf. metaseds	Camp	SP11-090	204	205	15	0.50	<0.50	153	<0.22	0.35	0.90	4150	1.7	0.50	135	4.0	11	181	65
ABA-098	Mine Rock	4-Acid	TRA	Portage	SP11-107	159	160	15	2.0	<1.6	163	<0.51	0.17	3.9	4950	2.4	1.3	126	9.2	14	36	150
ABA-103	Mine Rock	4-Acid	TRA	Portage	SP11-107	218	219	19	0.50	<2.2	182	<0.38	0.37	4.2	4010	2.5	1.3	163	18	17	58	168
ABA-100	Mine Rock	4-Acid	TRA	Portage	SP11-107	277	278	30	0.50	<0.60	244	<0.11	1.6	0.50	4420	5.3	1.5	241	15	12	1160	57
ABA-089	Mine Rock	4-Acid	TRA	Portage	SP11-107	338	339	17	2.0	<0.70	279	<0.12	0.13	3.2	2710	2.4	1.1	128	15	11	82	118
ABA-012	Mine Rock	4-Acid	TRA	Portage	DH-92-02	120.4	121	24	7.0	<1.2	119	<0.16	14	1.9	4610	12	2.0	217	11	12	162	137
ABA-058	Mine Rock	4-Acid	POR	Portage	DH-92-03	180.9	181.9	3.0	1.0	<0.80	473	<0.13	4.8	8.7	820	6.1	9.6	72	4.2	13	139	271
ABA-025	Mine Rock	4-Acid	And. tuf. metaseds	Portage	BL-0142	66.14	67.06	23	2.0	<2.0	214	<0.84	0.025	4.9	9310	0.64	1.3	189	1.9	25	80	213
ABA-027	Mine Rock	4-Acid	And. tuf. metaseds	Portage	BL-0142	118.72	119.63	21	2.0	<1.7	207	<0.75	0.025	4.6	8650	0.42	1.2	177	0.90	24	75	192
ABA-026	Mine Rock	4-Acid	And. tuf. metaseds	Portage	BL-0142	178.63	179.63	21	2.0	<1.0	217	<0.47	0.16	2.4	6200	1.0	0.70	163	7.4	16	150	127
ABA-057	Mine Rock	4-Acid	And. tuf. metaseds	Portage	BL-0142	292.73	293.64	17	1.0	<1.0	358	<0.44	0.025	2.3	5940	0.86	0.60	158	1.1	18	80	115
ABA-024	Mine Rock	4-Acid	And. tuf. metaseds	Portage	BL-0145	62.18	63.09	19	2.0	<0.50	197	<0.12	1.4	1.2	2450	1.8	0.80	141	3.9	8.8	158	91
ABA-022	Mine Rock	4-Acid	And. tuf. metaseds	Portage	BL-0145	120.7	121.62	21	1.0	<0.80	214	<0.20	0.13	1.9	2490	1.2	1.4	157	2.1	19	188	141
ABA-020	Mine Rock	4-Acid	And. tuf. metaseds	Portage	BL-0145	180.62	181.62	22	1.0	<0.60	223	<0.12	0.45	1.1	2750	2.0	0.50	174	2.4	13	284	80
ABA-018	Mine Rock	4-Acid	And. tuf. metaseds	Portage	BL-0145	242.62	243.23	36	4.0	<0.60	330	<0.18	5.5	1.7	4620	2.4	0.70	214	2.8	20	3340	92
ABA-010	Mine Rock	4-Acid	And. tuf. metaseds	Portage	BL-0145	299.92	300.84	17	1.0	<0.80	318	<0.26	0.53	1.8	3540	1.7	1.8	133	4.4	12	247	104
ABA-008	Mine Rock	4-Acid	And. tuf. metaseds	Portage	BL-0145	365.76	366.67	17	2.0	<0.80	372	<0.27	0.97	1.2	5090	3.4	0.90	153	5.1	11	264	96
ABA-006	Mine Rock	4-Acid	And. tuf. metaseds	Portage	BL-0145	425.5	426.42	17	8.0	<0.60	637	<0.20	10	2.0	2860	3.9	4.2	117	15	25	857	107
ABA-064	Mine Rock	4-Acid	VBX	Portage	BL-0321	6.71	7.62	18	1.0	<1.7	81	<0.80	0.025	5.2	6280	0.75	1.6	112	1.6	32	100	236
ABA-063	Mine Rock	4-Acid	VBX	Portage	BL-0321	65.23	66.14	11	2.0	<2.5	170	<1.2	0.025	7.5	4570	0.54	1.9	38	0.80	34	113	337
ABA-065	Mine Rock	4-Acid	VBX	Portage	BL-0321	127.1	128.02	12	1.0	<2.6	163	<1.2	0.025	7.5	4570	0.70	1.9	39	7.5	32	100	340
ABA-062	Mine Rock	4-Acid	VBX	Portage	BL-0321	196.44	197.05	17	1.0	<1.7	195	<0.80	0.025	4.6	6250	0.71	1.2	101	2.0	26	101	222
ABA-179	Mine Rock	4-Acid	POR	Portage	SP10-002	243	244	31	1.0	<1.0	78	<0.16	0.72	2.1	4630	5.0	1.9	202	12	15	183	149
ABA-178	Mine Rock	4-Acid	VBX	Portage	SP10-002	365	366	17	2.0	<0.80	623	<0.17	0.56	5.2	2640	8.6	5.8	146	11	23	145	181
ABA-177	Mine Rock	4-Acid	POR	Portage	SP10-004	63	64	19	2.0	<1.6	248	<0.21	0.44	2.0	4060	10	0.90	156	10	12	87	100
ABA-109	Mine Rock	4-Acid	TRA	Portage	SP10-019	7	8	14	0.50	<2.1	347	<0.22	0.20	4.7	2720	1.6	2.6	109	3.4	13	78	208
ABA-108	Mine Rock	4-Acid	POR	Portage	SP10-019	67	68	4.4	1.0	<1.0	498	<0.25	0.90	5.4	1460	3.8	6.9	42	4.5	11	124	247
ABA-105	Mine Rock	4-Acid	VBX	Portage	SP10-019	127	128	6.7	0.50	<0.90	675	<0.14	2.0	5.3	1310	4.6	14	61	7.5	12	175	233
ABA-110	Ore-Grade Materials	4-Acid	VBX	Portage	SP10-019	247	250	19	4.0	<1.3	402	<0.15	4.4	6.7	2180	5.5	6.1	118	9.3	19	1820	179
ABA-106	Ore-Grade Materials	4-Acid	TRA	Portage	SP10-019	369	370	24	1.0	<1.3	104	<0.33	11	4.8	4180	3.5	4.4	178	12	28	170	213
ABA-107	Mine Rock	4-Acid	POR	Portage	SP10-021	181	182	19	0.50	<1.6	244	<0.78	0.025	4.0	8810	3.1	0.90	136	4.7	18	167	207
ABA-184	Mine Rock	4-Acid	POR	Portage	SP10-021	241	242	23	1.0	<1.3	341	<0.65	1.9	3.3	7280	2.3	2.0	156	14	19	167	158
ABA-183	Mine Rock	4-Acid	VBX	Portage	SP11-039	60	63	8.9	1.0	<1.0	540	<0.26	0.74	13	1480	4.8	8.7	72	4.6	19	69	294
ABA-182	Mine Rock	4-Acid	VBX	Portage	SP11-039	114	117	7.2	2.0	<0.90	573	<0.28	3.5	15	1180	5.6	25	64	7.5	33	36	308
ABA-149	Mine Rock	4-Acid	POR	Portage	SP11-040	126	127.5	4.3	1.0	<0.70	759	<0.16	27	10	980	6.0	11	91	9.7	32	285	248
ABA-180	Mine Rock	4-Acid	MS	Portage	SP11-046	7	8	22	0.50	<0.80	183	<0.34	0.025	1.4	3180	0.62	0.50	159	0.70	9.5	84	114
ABA-181	Mine Rock	4-Acid	MS	Portage	SP11-046	67	68	25	0.50	<0.90	176	<0.45	0.40	2.1	6500	1.0	0.90	162	7.6	15	152	120
ABA-097	Mine Rock	4-Acid	VBX	Portage	SP11-046	306.5	307.5	7.9	4.0	<0.70	581	<0.13	2.4	6.1	1590	5.3	6.2	86	5.1	15	228	172
ABA-122	Ore-Grade Materials	4-Acid	And. tuf. metaseds	Portage	SP11-049	123	124	29	2.0	<1.9	139	<0.13	4.4	2.3	4810	5.0	2.9	218	11	17	325	136
ABA-123	Mine Rock	4-Acid	And. tuf. metaseds	Portage	SP11-050	6.5	7	24	0.50	<1.4	190	<0.67	0.30	3.5	8350	0.66	0.90	195	5.5	18	61	167
ABA-092	Mine Rock	4-Acid	And. tuf. metaseds	Portage	SP11-050	66	67	21	1.0	<0.70	206	<0.22	0.21	1.6	3520	2.2	0.50	172	5.1	12	184	103
ABA-095	Mine Rock	4-Acid	And. tuf. metaseds	Portage	SP11-050	126	127	22	3.0	<0.80	199	<0.15	1.1									

Table B-6. Elemental Content Results

Sample ID	Classification	Digest Method ^(A)	Final Lithology Group	Zone	Drillhole	From	To	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Ti	U	V	W	Y	Zn	Zr
Units						m	m	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
10x Crustal Abundance (Price 1997)								220	0.5	23	3700	--	--	96	--	8.5	27	1200	12.5	330	700	1650
ABA-139	Mine Rock	4-Acid	POR	Portage	SP11-064	243	244	18	1.0	<1.0	291	<0.44	0.12	2.3	6460	1.3	0.80	158	3.2	16	136	110
ABA-138	Mine Rock	4-Acid	POR	Portage	SP11-064	303	304	19	1.0	<2.7	330	<0.46	0.080	2.5	6680	0.94	0.80	174	2.8	16	94	114
ABA-118	Mine Rock	4-Acid	POR	Portage	SP11-068	1	2	21	0.50	<1.1	243	<0.54	0.025	2.2	7150	0.32	0.40	191	0.70	17	98	134
ABA-116	Mine Rock	4-Acid	POR	Portage	SP11-068	61	62	18	0.50	<1.0	224	<0.49	0.025	2.2	6140	0.79	0.50	164	1.0	16	98	114
ABA-117	Mine Rock	4-Acid	VBX	Portage	SP11-068	121	122	19	0.50	<1.0	192	<0.46	0.097	2.2	5870	2.1	0.80	165	7.5	13	45	119
ABA-146	Mine Rock	4-Acid	TRA	Portage	SP11-068	181	182	21	3.0	<1.9	253	<0.89	0.060	5.3	10250	0.73	1.5	204	2.7	28	110	212
ABA-147	Mine Rock	4-Acid	TRA	Portage	SP11-068	241	242	19	2.0	<1.1	272	<0.43	1.9	2.2	5680	1.2	0.90	168	14	14	440	111
ABA-130	Mine Rock	4-Acid	VBX	Portage	SP11-068	300	301	21	0.50	<1.1	237	<0.52	1.1	2.3	6520	1.7	0.50	178	21	17	163	126
ABA-129	Mine Rock	4-Acid	VBX	Portage	SP11-068	360	361	21	1.0	<1.0	238	<0.53	1.6	2.3	6600	1.1	0.50	170	8.5	17	90	127
ABA-143	Mine Rock	4-Acid	POR	Portage	SP11-068	420	421	20	2.0	<1.1	315	<0.52	0.080	2.3	7010	1.1	0.60	187	2.4	18	106	121
ABA-141	Mine Rock	4-Acid	And. tuf. metaseds	Portage	SP11-072	4	5	15	0.50	<0.40	140	<0.25	0.050	0.80	4740	3.0	0.30	135	4.3	8.5	111	62
ABA-142	Mine Rock	4-Acid	And. tuf. metaseds	Portage	SP11-072	64	65	16	1.0	<0.60	198	<0.19	0.11	2.2	4030	2.5	2.2	153	7.4	9.8	109	77
ABA-166	Ore-Grade Materials	4-Acid	And. tuf. metaseds	Portage	SP11-072	124	125	14	1.0	<1.7	190	<0.32	0.47	3.3	3360	1.9	1.8	123	18	14	50	140
ABA-144	Mine Rock	4-Acid	And. tuf. metaseds	Portage	SP11-072	183	184	32	1.0	<0.40	407	<0.070	0.080	0.50	3330	3.5	0.30	225	13	8.1	90	51
ABA-165	Mine Rock	4-Acid	POR	Portage	SP11-072	243	244	14	1.0	<2.0	400	<0.42	0.59	7.0	2630	3.9	2.8	58	9.1	33	98	331
ABA-159	Mine Rock	4-Acid	TRA	Portage	SP11-072	307	310	21	6.0	<0.90	157	<0.15	12	1.8	3790	3.6	2.4	151	18	14	181	88
ABA-145	Mine Rock	4-Acid	POR	Portage	SP11-075	62	63	1.6	1.0	<0.80	423	<0.15	2.1	8.4	800	5.6	7.1	40	7.8	12	157	251
ABA-163	Ore-Grade Materials	4-Acid	POR	Portage	SP11-075	182	183	18	3.0	<1.1	653	<0.13	5.4	6.1	2160	5.5	11	137	15	20	154	153
ABA-164	Mine Rock	4-Acid	POR	Portage	SP11-075	241	242	8.9	2.0	<0.90	513	<0.15	1.5	7.3	1880	4.7	5.7	93	7.3	17	137	193
ABA-148	Mine Rock	4-Acid	TRA	Portage	SP11-076	2	3	17	2.0	<1.7	185	<0.68	0.070	4.2	6420	5.2	2.0	164	20	16	112	146
ABA-167	Mine Rock	4-Acid	And. tuf. metaseds	Portage	SP11-076	63	64	18	2.0	<1.2	250	<0.33	0.84	1.8	5950	3.4	1.0	155	11	12	98	80
ABA-172	Mine Rock	4-Acid	TRA	Portage	SP11-076	122	123	8.2	0.50	<0.80	443	<0.16	0.27	5.2	1570	6.1	11	68	17	14	105	172
ABA-173	Mine Rock	4-Acid	TRA	Portage	SP11-076	182	183	7.0	0.50	<0.60	951	<0.15	1.4	5.3	1470	5.0	6.0	54	10	14	134	158
ABA-170	Mine Rock	4-Acid	TRA	Portage	SP11-076	242.5	244	3.7	1.0	<1.0	550	<0.16	0.64	5.9	970	6.8	11	67	6.4	15	154	254
ABA-176	Mine Rock	4-Acid	TRA	Portage	SP11-076	303	304	3.5	3.0	<0.70	1035	<0.15	2.1	7.5	810	6.0	8.8	41	6.2	17	636	266
ABA-157	Mine Rock	4-Acid	TRA	Portage	SP11-076	365.5	367	25	2.0	<1.3	74	<0.24	1.1	2.7	4380	4.4	3.6	269	31	18	136	161
ABA-171	Mine Rock	4-Acid	TRA	Portage	SP11-082	5	6.5	3.5	0.50	<0.90	649	<0.29	0.27	13	1300	1.3	6.5	35	3.7	6.4	461	339
ABA-160	Ore-Grade Materials	4-Acid	TRA	Portage	SP11-082	306	307	16	1.0	<2.0	127	<0.43	0.29	8.0	1920	3.5	3.4	83	24	35	53	359
ABA-161	Mine Rock	4-Acid	TRA	Portage	SP11-082	365.5	367	20	3.0	<1.0	220	<0.12	3.8	2.3	3730	3.0	1.9	172	5.1	16	115	110
ABA-158	Mine Rock	4-Acid	TRA	Portage	SP11-082	426	427	5.0	2.0	<0.30	3060	<0.070	1.5	4.5	830	3.1	5.5	25	2.8	12	214	112
ABA-162	Mine Rock	4-Acid	POR	Portage	SP11-087	62	63	22	6.0	<0.80	288	<0.18	8.2	2.0	3120	5.1	5.4	180	8.7	15	132	116
ABA-174	Mine Rock	4-Acid	POR	Portage	SP11-087	122	123	36	0.50	<1.1	181	<0.44	0.52	1.8	8930	2.3	1.1	232	15	19	120	108
ABA-150	Mine Rock	4-Acid	POR	Portage	SP11-087	242	243	2.5	2.0	<1.0	502	<0.34	2.8	18	1050	3.6	7.1	43	8.4	20	166	314
ABA-156	Mine Rock	4-Acid	POR	Portage	SP11-087	301.5	303	9.5	2.0	<0.60	821	<0.16	1.1	7.0	1560	4.8	8.6	81	5.9	18	151	172
ABA-154	Mine Rock	4-Acid	TRA	Portage	SP11-087	362	363	21	2.0	<1.0	241	<0.24	1.9	2.2	4510	3.5	2.7	192	12	14	112	119
ABA-169	Mine Rock	4-Acid	POR	Portage	SP11-088	7	8	17	2.0	<1.0	186	<0.30	1.0	4.7	4530	3.3	1.0	156	17	12	157	122
ABA-168	Mine Rock	4-Acid	POR	Portage	SP11-088	66	67	22	2.0	<1.1	238	<0.50	0.57	2.7	6880	4.4	1.0	204	45	11	114	123
ABA-175	Mine Rock	4-Acid	POR	Portage	SP11-088	126	127	12	2.0	<1.0	293	<0.16	1.1	8.0	2040	2.7	3.2	100	15	17	116	190
ABA-152	Mine Rock	4-Acid	POR	Portage	SP11-088	246	247	7.1	1.0	<0.80	769	<0.13	0.54	4.7	1850	3.2	6.9	82	8.3	12	125	165
ABA-153	Mine Rock	4-Acid	POR	Portage	SP11-088	305.5	307	7.6	1.0	<0.90	373	<0.16	2.8	7.0	1860	5.1	9.2	90	13	17	364	184
ABA-151	Ore-Grade Materials	4-Acid	POR	Portage	SP11-088	365.5	367	26	9.0	<1.5	161	<0.13	18	2.8	3320	4.4	4.2	139	4.7	21	177	114
ABA-155	Mine Rock	4-Acid	POR	Portage	SP11-088	427	428.5	9.8	1.0	<1.0	873	<0.15	2.4	5.3	1920	6.0	5.1	103	7.2	15	96	178
ABA-104	Mine Rock	4-Acid	TRA	Portage	SP11-097	62	63	25	0.50	<1.1	161	<0.27	0.83	2.7	4090	2.0	1.9	193	8.5	17	102	138
ABA-090	Mine Rock	4-Acid	TRA	Portage	SP11-097	241	242	25	3.0	<0.60	205	<0.080	2.9	1.0	3000	2.9	1.5	216	3.9	12	189	78
ABA-111	Mine Rock	4-Acid	POR	Portage	SP11-099	64	65	1.4	0.50	<0.50	595	<0.19	0.32	9.3	990	3.8	5.0	32	3.9	9.7	90	275
ABA-087	Mine Rock	4-Acid	TRA	Portage	SP11-099	304	305	8.7	2.0	<1.5	1160	<0.16	0.28	8.1	1900	6.8	6.9	90	12	19	74	221
ABA-096	Mine Rock	4-Acid	And. tuf. metaseds	Portage	SP11-106	4	5	7.4	1.0	<0.90	760	<0.15	0.090	8.1	1820	6.7	6.5	73	10	12	102	196
ABA-091	Mine Rock	4-Acid	And. tuf. metaseds	Portage	SP11-106	64	65	6.9	1.0	<0.90	293	<0.16	0.11	6.4	1680	5.9	11	65	7.1	14	94	180
ABA-093	Mine Rock	4-Acid	And. tuf. metaseds	Portage	SP11-106	124	125	21	3.0	<1.6	481	<0.74	0.10	4.7	7500	3.5	1.8	125	13	23	95	230
ABA-094	Mine Rock	4-Acid	And. tuf. metaseds	Portage	SP11-106	182	185	8.9	1.0	<0.70	542	<0.12	0.28	5.0	1420	7.0	6.9	77	4.8	11	74	170
ABA-102	Mine Rock	4-Acid	POR	Portage	SP11-106	244	245	4.0	0.50	<1.6	1095	<0.44	0.69	30	1370	6.4	12	59	6.6	26	142	398
ABA-088	Mine Rock	4-Acid	POR	Portage	SP11-106	304	305	2.3	1.0	<1.1	1515	<0.37	0.50	22	1100	4.6	11	42	4.9	17	87	349
ABA-101	Mine Rock	4-Acid	And. tuf. metaseds	Portage	SP11-106	365.5	367	9.4	0.50	<2.7	632	<0.18	1.7	8.0	2040	7.8	8.4	92	10	22	149	205
ABA-099	Ore-Grade Materials	4-Acid	TRA	Portage	SP11-106	427	428.5	23	10	<1.2	103	<0.29	33	2.6	4290	6.4	3.2	209	15	19	165	135

Red highlight indicates metal concentrations that are greater than the ten times the crustal abundance value
 (A) 4-acid digest metals data shown for information purposes only.

Table B-7. Elemental Content Statistical Summary



	Parameter	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	
	Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
10x Crustal Abundance (Price 1997)		0.75	--	18	4E-05	100	4250	30	0.085	--	1.5	--	250	1020	--	600	--	190	15	--	0.85	--	--	--	390	200
All Samples	Count	694	694	694	694	694	694	694	694	694	690	694	694	694	694	694	694	694	694	694	694	694	694	694	694	
	No. Samples > 10x Crustal	272	0	495	694	1	0	0	340	0	61	4	0	2	0	3	0	0	0	0	22	0	0	10	35	
	% Samples > 10x Crustal	39%	0%	71%	100%	0%	0%	0%	49%	0%	9%	1%	0%	0%	0%	0%	0%	0%	0%	3%	0%	0%	1%	5%		
	Minimum	0.010	2000	1.6	0.00050	10	10	0.050	0.010	300	0.010	3.1	0.80	1.0	0.13	4.2	3300	0.77	0.050	0.030	0.0050	0.0050	400	1.8	1.0	
	10th Percentile	0.080	4200	7.1	0.0060	10	20	0.23	0.020	1730	0.050	21	6.8	24	1.1	18	16430	1.7	0.050	0.32	0.0093	0.0050	1500	9.3	6.0	
	Median	0.46	12650	36	0.098	10	59	0.52	0.080	29750	0.16	43	28	50	7.5	60	53900	4.8	0.10	0.87	0.048	0.013	6900	20	25	
	Average	1.9	15090	74	0.42	13	88	0.65	0.30	28536	0.72	64	27	71	14	77	51081	5.4	0.12	1.0	0.17	0.015	8818	48	52	
	Standard Deviation	4.8	10039	124	1.3	7.2	91	0.58	0.72	24009	2.7	76	13	102	21	111	22298	3.3	0.098	0.68	0.68	0.011	7356	186	110	
	90th Percentile	4.5	30670	170	0.97	18	188	1.1	0.67	54370	1.1	113	41	120	30	131	76400	10	0.21	2.0	0.30	0.025	19070	62	94	
	Maximum	60	60400	1254	25	163	969	7.6	15	195500	51	500	95	1303	270	2028	147100	27	1.5	4.6	13	0.13	56600	4269	1936	
All Mine Rock	Count	550	550	550	550	550	550	550	550	550	550	547	550	550	550	550	550	550	550	550	550	550	550	550	550	
	No. Samples > 10x Crustal	158	0	381	550	0	0	0	244	0	39	0	0	2	0	2	0	0	0	0	13	0	0	6	9	
	% Samples > 10x Crustal	29%	0%	69%	100%	0%	0%	0%	44%	0%	7%	0%	0%	0%	0%	0%	0%	0%	0%	2%	0%	0%	1%	2%		
	Minimum	0.010	2000	1.6	0.00050	10	10	0.050	0.010	300	0.010	3.1	1.5	2.0	0.13	4.2	3300	0.77	0.050	0.030	0.0050	0.0050	400	1.8	1.0	
	10th Percentile	0.070	4090	6.1	0.0053	10	20	0.22	0.010	2400	0.050	20	6.2	23	0.95	17	15590	1.6	0.050	0.29	0.0080	0.0050	1300	9.2	5.7	
	Median	0.31	12200	34	0.051	10	62	0.49	0.070	31800	0.13	42	28	48	6.8	55	53450	4.7	0.090	0.83	0.036	0.012	6150	20	22	
	Average	1.1	15203	72	0.16	12	93	0.59	0.28	29867	0.57	60	27	75	14	68	50476	5.4	0.11	1.0	0.12	0.015	7986	44	34	
	Standard Deviation	3.4	10468	130	0.53	4.2	95	0.50	0.76	21179	2.5	69	14	113	22	108	22850	3.4	0.089	0.70	0.48	0.0097	7210	197	49	
	90th Percentile	2.3	31710	158	0.34	18	200	0.95	0.60	54000	0.85	99	42	134	33	113	76700	10	0.18	2.0	0.21	0.025	17630	57	65	
	Maximum	60	60400	1254	10	33	969	7.1	15	195500	51	500	95	1303	270	2028	147100	27	1.5	4.6	9.8	0.089	56600	4269	570	
All Ore-Grade Materials	Count	144	144	144	144	144	144	144	144	144	143	144	144	144	144	144	144	144	144	144	144	144	144	144	144	
	No. Samples > 10x Crustal	114	0	114	144	1	0	0	96	0	22	0	0	0	0	1	0	0	0	0	9	0	0	4	26	
	% Samples > 10x Crustal	79%	0%	79%	100%	1%	0%	0%	67%	0%	15%	0%	0%	0%	0%	1%	0%	0%	0%	6%	0%	0%	3%	18%		
	Minimum	0.040	2200	3.8	0.0016	10	12	0.19	0.010	300	0.020	10	0.80	1.0	0.20	9.6	7100	0.96	0.050	0.14	0.0050	0.0050	1000	5.6	2.2	
	10th Percentile	0.43	5130	14	0.27	10	21	0.32	0.040	900	0.060	22	10	29	2.8	26	19050	2.2	0.063	0.57	0.029	0.0073	3560	9.6	10.0	
	Median	2.5	13600	44	0.83	11	47	0.68	0.16	4900	0.25	48	30	53	11	80	56900	4.8	0.13	1.1	0.13	0.013	10950	26	51	
	Average	4.8	14659	83	1.4	14	72	0.85	0.37	23449	1.3	80	28	57	14	109	53392	5.5	0.16	1.1	0.35	0.017	11995	61	120	
	Standard Deviation	7.5	8210	97	2.4	13	71	0.77	0.57	32226	3.4	96	11	29	13	115	19955	2.9	0.12	0.56	1.1	0.014	7055	136	208	
	90th Percentile	11	25570	214	2.8	19	143	1.5	0.88	55170	2.6	157	40	87	29	201	75850	9.8	0.26	1.8	0.57	0.028	21530	102	339	
	Maximum	57	37700	451	25	163	387	7.6	4.3	161700	20	500	67	205	78	988	100500	15	1.1	4.3	13	0.13	33900	906	1936	

Includes samples analyzed by 3:1 aqua regia digestion and ICP-MS finish (see text).

10x Crustal Abundance values based on Price (1997)

Table B-7. Elemental Content Statistical Summary



Parameter		Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	Zr
Units		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
10x Crustal Abundance (Price 1997)		--	9500	12	--	--	840	10500	140	--	--	3500	2	220	0.5	23	3700	--	--	96	--	8.5	27	1200	12.5	330	1650	700
All Samples	Count	694	694	694	694	694	694	694	694	694	694	694	694	694	694	694	694	694	694	694	694	694	694	694	694	694	694	694
	No. Samples > 10x Crustal	0	0	271	0	0	0	64	0	0	546	228	0	299	0	2	0	0	0	0	0	4	1	0	20	0	7	0
	% Samples > 10x Crustal	0%	0%	39%	0%	0%	0%	9%	0%	0%	79%	33%	0%	43%	0%	0%	0%	0%	0%	0%	1%	0%	0%	3%	0%	1%	0%	
	Minimum	200	13	0.070	100	0.050	1.9	33	0.60	2.2	0.0010	100	0.10	0.20	0.20	8.6	0.010	0.010	0.20	50	0.040	0.050	2.0	0.050	3.0	5.0	1.3	
	10th Percentile	5200	91	0.86	100	0.050	9.8	341	3.3	8.5	0.0010	1230	0.40	0.90	0.20	0.20	38	0.010	0.010	0.90	113	0.18	0.22	9.0	0.20	6.1	46	15
	Median	15200	994	6.7	200	0.070	36	807	13	74	0.0020	12150	1.4	3.9	0.40	0.20	144	0.010	0.38	2.2	615	1.5	1.1	48	0.73	9.1	100	44
	Average	16977	1064	36	268	0.13	47	835	66	98	0.018	17847	2.4	4.8	1.3	0.25	215	0.012	2.1	3.4	886	1.8	2.6	54	2.1	9.6	172	52
	Standard Deviation	11274	882	100	125	0.12	49	416	215	94	0.079	17141	5.5	4.2	2.2	0.15	394	0.011	4.6	3.9	806	1.7	3.6	40	6.1	3.4	381	35
	90th Percentile	30400	1856	82	400	0.26	92	1326	122	221	0.025	43440	4.7	9.2	3.5	0.30	438	0.010	6.4	6.2	2030	3.9	6.4	105	4.3	13	255	99
	Maximum	84400	9407	1228	1000	1.1	527	4551	3324	754	1.2	100000	108	39	26	3.0	8226	0.15	48	35	4590	15	38	294	122	28	6830	225
All Mine Rock	Count	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550
	No. Samples > 10x Crustal	0	0	163	0	0	0	42	0	0	408	178	0	181	0	1	0	0	0	0	0	4	1	0	14	0	3	0
	% Samples > 10x Crustal	0%	0%	30%	0%	0%	0%	8%	0%	0%	74%	32%	0%	33%	0%	0%	0%	0%	0%	0%	1%	0%	0%	3%	0%	1%	0%	
	Minimum	200	13	0.070	100	0.050	1.9	48	0.60	2.2	0.0010	100	0.10	0.20	0.20	8.6	0.010	0.010	0.20	50	0.040	0.050	2.0	0.050	3.0	6.0	1.3	
	10th Percentile	4600	108	0.74	200	0.050	9.6	358	3.0	7.8	0.0010	1000	0.36	0.90	0.20	0.20	41	0.010	0.010	0.80	109	0.16	0.20	8.0	0.18	6.0	45	14
	Median	15000	1026	4.9	200	0.070	36	809	9.9	62	0.0010	9550	1.3	3.8	0.30	0.20	148	0.010	0.17	2.3	600	1.3	0.87	47	0.63	8.7	97	44
	Average	17089	1101	24	273	0.13	49	852	55	86	0.0068	14041	2.1	4.7	0.79	0.24	210	0.012	1.1	3.5	880	1.7	2.4	54	1.9	9.3	156	51
	Standard Deviation	11869	837	70	125	0.12	53	426	187	90	0.024	14696	3.3	4.5	1.5	0.11	263	0.010	3.2	3.9	834	1.7	3.6	41	4.2	3.2	354	36
	90th Percentile	30520	1809	52	400	0.27	96	1339	103	198	0.011	33530	4.7	8.9	1.7	0.30	438	0.010	3.0	6.2	2054	3.7	6.2	104	4.2	13	243	101
	Maximum	84400	9407	977	1000	1.0	527	4551	3324	754	0.37	100000	55	39	16	1.2	4181	0.11	48	35	4590	15	38	294	44	28	6830	225
All Ore-Grade Materials	Count	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144
	No. Samples > 10x Crustal	0	0	108	0	0	0	22	0	0	138	50	0	118	0	1	0	0	0	0	0	0	0	0	6	0	4	0
	% Samples > 10x Crustal	0%	0%	75%	0%	0%	0%	15%	0%	0%	96%	35%	0%	82%	0%	1%	0%	0%	0%	0%	0%	0%	0%	4%	0%	3%	0%	
	Minimum	300	18	0.30	100	0.050	4.3	33	1.5	5.1	0.0010	200	0.18	0.30	0.20	0.20	8.6	0.010	0.010	0.20	50	0.12	0.050	2.0	0.050	4.2	5.0	8.1
	10th Percentile	5640	65	5.0	100	0.050	12	255	6.9	32	0.0010	9520	0.53	1.6	0.33	0.20	34	0.010	0.16	1.0	195	0.81	0.43	16	0.38	6.7	51	27
	Median	16050	710	28	200	0.070	37	794	26	131	0.0070	31850	1.4	4.2	2.2	0.20	101	0.010	4.3	1.9	680	2.2	1.9	49	0.97	10	120	46
	Average	16545	923	82	251	0.12	40	771	108	146	0.060	32384	3.6	5.0	3.2	0.26	236	0.013	5.9	3.1	908	2.3	3.1	56	3.0	11	236	53
	Standard Deviation	8654	1028	164	125	0.13	24	368	297	95	0.16	18059	10	3.2	3.3	0.25	698	0.015	6.6	3.8	690	1.4	3.4	36	11	3.8	468	29
	90th Percentile	28780	1918	189	400	0.23	74	1233	186	283	0.14	57600	5.1	9.4	7.1	0.37	428	0.020	13	6.0	1810	4.1	7.0	105	4.3	15	377	85
	Maximum	38400	5845	1228	800	1.1	123	1741	2755	397	1.2	74700	108	15	26	3.0	8226	0.15	48	26	3330	7.2	21	215	122	26	3182	221

Includes samples analyzed by 3:1 aqua regia digestion and ICP-MS finish (see text).

10x Crustal Abundance values based on Price (1997)

Table B-8. Elemental Content Statistical Summary (Lithology)



	Parameter	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li
Units		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
10x Crustal Abundance (Price 1997)		0.75	--	18	4E-05	100	4250	30	0.085	--	1.5	--	250	1020	--	600	--	190	15	--	0.85	--	--	390	200
All Andesite, Tuff, and Metasediments Samples	Count	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285
	No. Samples > 10x Crustal	72	0	193	285	0	0	0	71	0	19	0	0	0	0	1	0	0	0	0	10	0	0	2	9
	% Samples > 10x Crustal	25%	0%	68%	100%	0%	0%	0%	25%	0%	7%	0%	0%	0%	0%	0%	0%	0%	0%	0%	4%	0%	0%	1%	3%
	Minimum	0.010	2200	1.6	0.00050	10	10	0.050	0.010	300	0.010	5.3	3.0	1.0	0.35	8.7	5300	0.84	0.050	0.090	0.0050	0.0050	400	2.2	1.6
	10th Percentile	0.070	4880	5.2	0.0043	10	18	0.19	0.010	4000	0.040	17	19	26	1.6	27	40140	1.8	0.050	0.24	0.0070	0.0080	1040	7.9	6.2
	Median	0.24	15900	37	0.044	10	45	0.45	0.040	35700	0.10	34	31	60	18	64	58900	5.8	0.090	0.63	0.025	0.014	5200	16	26
	Average	1.1	18060	83	0.29	12	62	0.57	0.15	35086	0.72	45	32	81	26	81	59656	6.1	0.11	0.73	0.17	0.017	7736	27	46
	Standard Deviation	2.6	11987	142	0.83	6.0	52	0.56	0.36	23744	3.2	54	17	77	35	117	29080	3.8	0.089	0.51	0.87	0.013	7352	68	118
	90th Percentile	2.2	33260	183	0.54	17	127	0.99	0.26	58220	0.54	67	44	150	55	133	80720	11	0.17	1.3	0.16	0.028	18260	34	63
	Maximum	33	60400	1254	9.0	33	327	7.6	4.1	149000	51	500	93	623	478	2028	124600	18	1.1	3.1	13	0.13	50400	901	1936
Andesite, Tuff, and Metasediments Ore-Grade Materials	Count	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41
	No. Samples > 10x Crustal	28	0	35	41	0	0	0	20	0	7	0	0	0	0	0	0	0	0	0	5	0	0	2	6
	% Samples > 10x Crustal	68%	0%	85%	100%	0%	0%	0%	49%	0%	17%	0%	0%	0%	0%	0%	0%	0%	0%	0%	12%	0%	0%	5%	15%
	Minimum	0.090	2900	6.3	0.012	10	21	0.19	0.010	500	0.020	13	3.0	1.0	0.53	15	13000	1.3	0.050	0.22	0.013	0.0060	1000	5.6	3.0
	10th Percentile	0.43	4400	13	0.28	10	32	0.28	0.030	2100	0.060	20	13	29	2.6	30	36000	1.7	0.050	0.47	0.020	0.0090	2800	9.1	8.8
	Median	1.8	15100	63	0.72	10	44	0.63	0.080	32200	0.18	37	30	49	21	79	57600	4.9	0.090	0.96	0.081	0.014	10800	19	44
	Average	3.9	15410	116	1.5	12	60	0.93	0.26	33310	1.9	85	30	59	32	95	57122	5.8	0.16	0.97	0.57	0.022	11851	77	137
	Standard Deviation	5.6	9550	121	2.0	5.2	41	1.2	0.45	33007	4.1	123	14	40	69	72	25324	3.8	0.19	0.51	1.9	0.021	8383	179	300
	90th Percentile	9.8	28000	329	3.2	16	113	1.3	0.40	61200	7.4	218	41	93	55	176	77100	11	0.28	1.4	1.1	0.034	20800	136	334
	Maximum	33	32500	442	9.0	24	173	7.6	2.1	149000	17	500	52	205	478	318	86500	15	1.1	1.8	13	0.13	33900	901	1936
Andesite, Tuff, and Metasediments Mine Rock	Count	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244
	No. Samples > 10x Crustal	44	0	158	244	0	0	0	51	0	12	0	0	0	0	1	0	0	0	0	5	0	0	0	3
	% Samples > 10x Crustal	18%	0%	65%	100%	0%	0%	0%	21%	0%	5%	0%	0%	0%	0%	0%	0%	0%	0%	0%	2%	0%	0%	0%	1%
	Minimum	0.010	2200	1.6	0.00050	10	10	0.050	0.010	300	0.010	5.3	5.3	3.0	0.35	8.7	5300	0.84	0.050	0.090	0.0050	0.0050	400	2.2	1.6
	10th Percentile	0.063	5030	4.8	0.0042	10	18	0.18	0.010	5000	0.040	17	20	26	1.5	27	42030	1.9	0.050	0.24	0.0070	0.0073	1000	7.7	5.9
	Median	0.20	16450	34	0.027	10	46	0.43	0.040	36050	0.10	33	31	62	18	62	59000	6.0	0.080	0.59	0.022	0.014	4450	15	24
	Average	0.60	18506	78	0.092	12	62	0.51	0.13	35384	0.52	39	32	85	25	78	60082	6.1	0.097	0.69	0.11	0.016	7045	19	31
	Standard Deviation	1.4	12319	144	0.16	6.1	53	0.38	0.34	22091	3.0	30	17	81	26	122	29614	3.8	0.060	0.50	0.57	0.011	6991	17	40
	90th Percentile	1.3	33800	155	0.27	17	128	0.85	0.17	57640	0.45	62	45	154	54	125	81070	10	0.15	1.3	0.10	0.027	17170	31	50
	Maximum	18	60400	1254	2.0	33	327	2.8	4.1	96300	51	320	93	623	160	2028	124600	18	0.33	3.1	9.8	0.068	50400	188	478
All Porphyry Samples	Count	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77
	No. Samples > 10x Crustal	43	0	54	77	0	0	0	68	0	6	0	0	0	0	0	0	0	0	0	3	0	0	1	1
	% Samples > 10x Crustal	56%	0%	70%	100%	0%	0%	0%	88%	0%	8%	0%	0%	0%	0%	0%	0%	0%	0%	0%	4%	0%	0%	1%	1%
	Minimum	0.040	2000	3.0	0.00050	10	10	0.050	0.010	400	0.030	3.1	1.2	2.0	0.34	4.2	3300	0.98	0.050	0.030	0.0050	0.0050	400	1.8	1.7
	10th Percentile	0.16	3260	7.2	0.011	10	29	0.33	0.068	1020	0.056	34	4.2	22	1.1	10	8360	1.2	0.050	0.70	0.025	0.0050	2000	16	5.2
	Median	1.0	6700	28	0.15	10	129	0.54	0.42	4000	0.29	58	7.0	35	5.6	29	16600	2.5	0.090	1.6	0.11	0.0060	4700	31	17
	Average	2.2	8406	35	0.39	12	163	0.65	0.45	19787	0.91	77	13	40	29	46	25283	3.1	0.11	1.6	0.19	0.0078	6291	49	38
	Standard Deviation	3.3	6493	27	0.60	6.5	124	0.46	0.35	26339	1.9	59	12	26	44	59	20395	2.2	0.066	0.97	0.27	0.0049	4976	57	60
	90th Percentile	4.5	15120	70	0.86	17	354	1.1	0.81	48140	1.1	146	33	61	80	87	57840	5.5	0.17	2.5	0.41	0.013	13440	94	84
	Maximum	28	35900	135	4.7	30	537	2.9	2.1	195500	15	298	67	131	298	581	100500	11	0.34	3.9	2.0	0.023	29200	505	603
Porphyry Ore-Grade Materials	Count	14	14	14	14	14	14	14	14	14	14	13	14	14	13	14	14	14	14	14	14	14	14	14	14
	No. Samples > 10x Crustal	11	0	11	14	0	0	0	10	0	2	0	0	0	0	0	0	0	0	0	1	0	0	1	1
	% Samples > 10x Crustal	79%	0%	79%	100%	0%	0%	0%	71%	0%	14%	0%	0%	0%	0%	0%	0%	0%	0%	0%	7%	0%	0%	7%	7%
	Minimum	0.040	3000	4.3	0.0034	10	17	0.22	0.010	400	0.050	23	1.2	11	2.8	9.6	9300	1.2	0.060	0.23	0.027	0.0050	1900	10	3.3
	10th Percentile	0.11	4620	16	0.12	10	23	0.41	0.020	1100	0.060	25	4.0	33	3.2	18	11830	1.9	0.073	0.60	0.043	0.0050	2440	11	11
	Median	3.7	9050	30	0.86	10	104	0.76	0.38	3300	0.24	48	19	50	11	52	29350	4.2	0.13	1.3	0.15	0.0095	6100	26	31
	Average	4.6	12671	39	1.1	13	149	0.88	0.39	17986	1.7	77	22	58	42	100	38979	4.4	0.14	1.3	0.30	0.0098	7871	77	90
	Standard Deviation	4.5	9627	33	0.92	7.2	131	0.70	0.34	34498	3.6	74	20	37	72	136	30213	2.8	0.090	0.82	0.47	0.0060	5814	121	141
	90th Percentile	11	22960	70	2.3	17	348	1.4	0.85	40730	4.3	147	47	97	75	175	73340	7.2	0.22	2.0	0.39	0.014	15530	163	154
	Maximum	16	35900	135	3.2	30	387	2.9	0.98	143700	15	298	67	131	298	581	100500	9.4	0.34	2.8	2.0	0.023	19100	505	603
Porphyry Mine Rock	Count	63	63	63	63	63	63	63	63	63	63	63	6												

Table B-8. Elemental Content Statistical Summary (Lithology)



Parameter	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
10x Crustal Abundance (Price 1997)	0.75	--	18	4E-05	100	4250	30	0.085	--	1.5	--	250	1020	--	600	--	190	15	--	0.85	--	--	390	200
Count	132	132	132	132	132	132	132	132	132	132	130	132	132	130	132	132	132	132	132	132	132	132	132	132
No. Samples > 10x Crustal	59	0	110	132	1	0	0	80	0	12	0	0	0	0	2	0	0	0	0	6	0	0	5	3
% Samples > 10x Crustal	45%	0%	83%	100%	1%	0%	0%	61%	0%	9%	0%	0%	0%	0%	2%	0%	0%	0%	0%	5%	0%	0%	4%	2%
Minimum	0.030	2200	4.6	0.00060	10	12	0.070	0.010	300	0.010	11	0.80	2.0	0.25	13	7300	1.3	0.050	0.14	0.0050	0.0050	800	4.7	1.9
10th Percentile	0.090	4570	15	0.012	10	24	0.28	0.030	1010	0.060	22	12	24	2.8	25	18810	1.9	0.060	0.57	0.011	0.0060	2420	10	6.3
Median	0.58	10500	56	0.16	10	59	0.51	0.21	30500	0.22	49	25	41	12	55	51500	4.2	0.10	1.1	0.070	0.013	8250	24	22
Average	2.6	12058	100	0.41	14	83	0.58	0.38	28848	0.67	78	25	51	26	84	49024	4.9	0.13	1.2	0.19	0.014	8769	94	37
Standard Deviation	6.6	7768	113	0.73	14	76	0.38	0.63	25081	1.6	92	13	37	40	139	25693	3.4	0.14	0.65	0.40	0.0098	5728	373	49
90th Percentile	4.8	21690	267	1.1	21	161	0.97	0.69	52340	1.2	142	38	86	67	111	76240	8.2	0.20	2.0	0.39	0.022	15860	101	85
Maximum	57	37700	612	5.1	163	506	2.5	4.4	161700	14	500	55	273	351	1259	108700	27	1.5	2.7	3.4	0.089	28900	4269	390
Count	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
No. Samples > 10x Crustal	28	0	29	37	1	0	0	27	0	3	0	0	0	0	1	0	0	0	0	2	0	0	1	3
% Samples > 10x Crustal	76%	0%	78%	100%	3%	0%	0%	73%	0%	8%	0%	0%	0%	0%	3%	0%	0%	0%	0%	5%	0%	0%	3%	8%
Minimum	0.060	2200	14	0.0016	10	12	0.22	0.010	300	0.030	19	0.80	13	0.25	13	13900	1.6	0.050	0.14	0.0050	0.0050	1000	8.3	2.2
10th Percentile	0.41	4760	17	0.21	10	19	0.30	0.040	800	0.096	23	15	31	2.5	30	18500	2.0	0.070	0.63	0.035	0.0060	3260	11	10
Median	2.3	10700	38	0.60	10	52	0.49	0.33	16700	0.31	47	27	51	12	64	54800	4.2	0.12	1.1	0.13	0.014	9100	27	35
Average	6.5	12154	83	1.1	17	64	0.59	0.54	28346	0.95	82	25	52	26	111	51170	4.6	0.14	1.1	0.29	0.015	10014	65	64
Standard Deviation	12	7920	98	1.1	25	49	0.34	0.82	34737	2.3	101	10	27	34	169	22385	2.5	0.084	0.57	0.56	0.0075	6437	148	81
90th Percentile	14	21600	220	2.3	19	132	1.1	0.89	53920	1.3	180	36	76	71	137	71500	7.4	0.21	2.0	0.60	0.022	17580	118	128
Maximum	57	37700	451	5.1	163	255	1.4	4.3	161700	14	500	40	145	159	988	94700	12	0.49	2.4	3.4	0.034	28900	906	390
Count	95	95	95	95	95	95	95	95	95	93	95	95	95	93	95	95	95	95	95	95	95	95	95	95
No. Samples > 10x Crustal	31	0	81	95	0	0	0	53	0	9	0	0	0	0	1	0	0	0	0	4	0	0	4	0
% Samples > 10x Crustal	33%	0%	85%	100%	0%	0%	0%	56%	0%	9%	0%	0%	0%	0%	1%	0%	0%	0%	0%	4%	0%	0%	4%	0%
Minimum	0.030	2300	4.6	0.00060	10	13	0.070	0.010	300	0.010	11	1.5	2.0	0.41	13	7300	1.3	0.050	0.14	0.0050	0.0050	800	4.7	1.9
10th Percentile	0.080	4780	15	0.0087	10	24	0.28	0.024	1580	0.060	22	11	23	2.9	24	18960	1.9	0.060	0.50	0.010	0.0060	2040	9.6	6.2
Median	0.37	10300	59	0.095	11	63	0.52	0.14	32200	0.19	51	24	39	12	48	50100	4.0	0.090	1.1	0.052	0.012	7700	24	16
Average	1.00	12020	107	0.16	13	90	0.58	0.31	29043	0.56	77	24	50	27	73	48188	4.9	0.13	1.2	0.16	0.014	8284	106	27
Standard Deviation	1.5	7724	118	0.26	6.3	83	0.39	0.53	20836	1.2	89	14	40	42	125	26591	3.6	0.16	0.67	0.33	0.010	5348	425	25
90th Percentile	2.5	21660	282	0.36	20	179	0.95	0.60	50820	1.1	139	40	86	57	90	76360	8.3	0.18	2.0	0.26	0.022	14940	93	55
Maximum	11	33200	612	2.5	29	506	2.5	4.4	79400	8.4	500	55	273	351	1259	108700	27	1.5	2.7	2.2	0.089	22200	4269	130
Count	192	192	192	192	192	192	192	192	192	192	191	192	192	191	192	192	192	192	192	192	192	192	192	192
No. Samples > 10x Crustal	96	0	132	192	0	0	0	117	0	23	0	0	0	0	0	0	0	0	0	3	0	0	2	22
% Samples > 10x Crustal	50%	0%	69%	100%	0%	0%	0%	61%	0%	12%	0%	0%	0%	0%	0%	0%	0%	0%	0%	2%	0%	0%	1%	11%
Minimum	0.010	2200	2.4	0.0020	10	12	0.080	0.010	300	0.020	7.7	1.6	4.0	0.20	8.7	6400	0.77	0.050	0.080	0.0050	0.0050	500	3.3	1.0
10th Percentile	0.11	4500	8.1	0.0081	10	21	0.26	0.030	1810	0.050	24	6.6	24	2.3	19	15620	1.9	0.060	0.45	0.011	0.0061	2610	11	6.1
Median	0.77	12200	29	0.16	10	68	0.61	0.15	19150	0.20	52	29	54	17	68	53400	5.0	0.12	1.0	0.066	0.013	9250	24	30
Average	2.5	14766	59	0.63	13	99	0.72	0.40	22514	0.71	77	26	64	35	78	49399	5.5	0.14	1.2	0.14	0.015	10763	47	75
Standard Deviation	5.1	10105	87	1.9	6.4	109	0.51	1.0	20855	1.7	85	14	92	55	61	25777	3.5	0.082	0.82	0.21	0.0097	7700	70	109
90th Percentile	5.6	26680	146	1.4	20	205	1.4	0.89	51980	1.8	141	40	99	70	140	71290	10	0.24	2.1	0.33	0.024	21380	78	212
Maximum	60	41900	865	25	36	969	3.7	15	121000	20	500	54	1303	461	373	102300	16	0.45	4.6	1.9	0.063	33900	564	570
Count	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
No. Samples > 10x Crustal	46	0	38	51	0	0	0	38	0	10	0	0	0	0	0	0	0	0	0	1	0	0	0	16
% Samples > 10x Crustal	90%	0%	75%	100%	0%	0%	0%	75%	0%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	2%	0%	0%	0%	31%
Minimum	0.12	2200	3.8	0.0079	10	12	0.22	0.040	300	0.020	10	5.0	18	0.25	13	7100	0.96	0.050	0.45	0.016	0.0050	1700	5.7	2.3
10th Percentile	0.84	6100	11	0.39	10	17	0.46	0.050	700	0.070	30	11	29	6.3	38	24000	2.8	0.10	0.60	0.044	0.0090	5500	14	21
Median	3.5	16400	36	1.0	12	46	0.79	0.17	3400	0.29	61	32	61	19	110	58100	6.0	0.17	1.0	0.16	0.014	15200	30	88
Average	4.5	16525	68	1.7	14	67	0.97	0.32	13898	1.1	74	30	59	34	121	56276	6.2	0.18	1.1	0.23	0.017	14745	40	158
Standard Deviation	3.8	8521	77	3.4	6.7	71	0.55	0.42	23993	2.8	60	12	27	36	83	22181	3.1	0.077	0.69	0.22	0.010	7168	39	162
90th Percentile	8.9	25600	174	2.7	22	133	1.6	0.74	41500	2.4	115	41	82	92	243	74300	10	0.26	2.0	0.51	0.026	22600	69	421
Maximum	15	34100	391	25	36	379	2.8	2.6	121000	20	406	54	135	161	373	96100	12	0.34	4.3	1.1	0.063	28400	269	565
Count	141	141	141	141	141	141	141	141	141	141	140	141	141	140	141	141	141	141	141	141	141	141	141	141
No. Samples > 10x Crustal	50	0	94	141	0	0	0	79	0	13	0	0	1	0	0	0	0	0	0	2	0	0	2	6
% Samples > 10x Crustal	35%	0%	67%	100%	0%	0%	0%	56%	0%	9%	0%	0%	1%	0%	0%	0%	0%	0%	0%	1%	0%	0%	1%	4%
Minimum	0.010	2400	2.4	0.0020	10	13	0.080	0.010	300	0.020	7.7	1.6	4.0	0.20	8.7	6400	0.77	0.050	0.080	0.0050	0.0050	500	3.3	1.0
10th Percentile	0.060	4300	7.8	0.0065	10	25	0.25	0.020	2100	0.050	24	5.3	23	1.9	17	14800	1.8	0.050	0.38	0.0080	0.0050	2200	11	5.1
Median	0.45	11200	27	0.054	10	78	0.53	0.13	28900	0.17	48	27	47	16	61	50600	4.7	0.10	1.0	0.048	0.012	7500	24	24
Average	1.8	14130	55	0.25	13	110	0.63	0.44	25630	0.58	79	25	66	35	63	46911	5.3	0.12	1.2	0.11	0.014	9323	49	44
Standard Deviation	5.2	10424	90	0.83	6.2	118	0.46	1.2	19382	1.1	91	14	10											

Table B-8. Elemental Content Statistical Summary (Lithology)



Parameter		Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li
Units		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
10x Crustal Abundance (Price 1997)		0.75	--	18	4E-05	100	4250	30	0.085	--	1.5	--	250	1020	--	600	--	190	15	--	0.85	--	--	390	200
All Lamprophyre Samples	Count	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	No. Samples > 10x Crustal	2	0	6	8	0	0	0	4	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	% Samples > 10x Crustal	25%	0%	75%	100%	0%	0%	0%	50%	0%	13%	0%	0%	13%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	Minimum	0.060	9200	13	0.0079	10	32	0.55	0.010	900	0.050	6.5	8.8	35	6.7	14	16500	3.3	0.080	0.12	0.0050	0.0050	6800	2.8	31
	10th Percentile	0.081	9620	16	0.0091	10	55	0.96	0.010	1040	0.078	13	19	36	6.8	54	31130	3.4	0.12	0.18	0.0099	0.012	8130	5.6	34
	Median	0.44	35150	48	0.051	12	126	2.0	0.16	2050	0.16	32	43	535	35	89	62150	10	0.24	0.72	0.024	0.032	22800	14	57
	Average	0.58	31400	46	0.091	15	148	2.5	0.30	18775	0.52	61	46	558	73	83	68213	9.9	0.28	0.91	0.061	0.034	25775	36	69
	Standard Deviation	0.63	17046	24	0.11	7.1	100	2.1	0.37	31495	0.82	66	29	448	89	31	40959	5.0	0.16	0.81	0.088	0.020	16669	50	39
	90th Percentile	1.3	49960	74	0.23	24	264	4.6	0.81	67910	1.4	127	85	1044	168	108	113850	15	0.48	1.8	0.14	0.058	45400	77	122
	Maximum	1.9	50100	82	0.30	29	340	7.1	0.94	74000	2.4	206	95	1183	270	110	147100	16	0.51	2.5	0.27	0.067	56600	152	144
Lamprophyre Ore-Grade Materials	Count	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	No. Samples > 10x Crustal	1	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	% Samples > 10x Crustal	100%	0%	100%	100%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	Maximum	1.9	9200	71	0.30	10	32	0.55	0.94	1600	0.98	206	24	35	6.7	90	37400	3.4	0.080	1.5	0.27	0.015	8700	152	36
Lamprophyre Mine Rock	Count	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	No. Samples > 10x Crustal	1	0	5	7	0	0	0	3	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	% Samples > 10x Crustal	14%	0%	71%	100%	0%	0%	0%	43%	0%	14%	0%	0%	14%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	Minimum	0.060	9800	13	0.0079	10	65	1.1	0.010	900	0.050	6.5	8.8	36	6.8	14	16500	3.3	0.13	0.12	0.0050	0.0050	6800	2.8	31
	10th Percentile	0.078	15320	16	0.0089	10	75	1.2	0.010	1020	0.074	12	19	146	20	48	34140	5.6	0.15	0.17	0.0092	0.016	13700	5.2	42
	Median	0.40	41000	48	0.024	13	132	2.3	0.050	2400	0.11	25	44	654	37	88	74300	11	0.25	0.41	0.022	0.033	27000	11	58
	Average	0.38	34571	43	0.061	16	164	2.8	0.20	21229	0.45	40	49	632	82	82	72614	11	0.30	0.82	0.031	0.037	28214	19	73
	Standard Deviation	0.32	15656	24	0.070	7.3	96	2.1	0.28	33182	0.86	34	30	427	91	33	42147	4.6	0.15	0.83	0.029	0.021	16390	18	40
	90th Percentile	0.72	49980	67	0.13	25	275	4.9	0.49	68780	1.1	85	86	1064	183	108	118600	16	0.49	1.7	0.066	0.059	47000	44	125
	Maximum	0.96	50100	82	0.20	29	340	7.1	0.76	74000	2.4	94	95	1183	270	110	147100	16	0.51	2.5	0.085	0.067	56600	45	144

Includes samples analyzed by 3:1 aqua regia digestion and ICP-MS finish (see text).

10x Crustal Abundance values based on Price (1997)

Table B-8. Elemental Content Statistical Summary (Lithology)



	Parameter	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	Zr
Units		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
10x Crustal Abundance (Price 1997)		--	9500	12	--	--	840	10500	140	--	--	3500	2	220	0.5	23	3700	--	--	96	--	8.5	27	1200	12.5	330	1650	700
All Andesite, Tuff, and Metasediments Samples	Count	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285
	No. Samples > 10x Crustal	0	0	60	0	0	0	0	14	0	0	201	91	0	75	0	1	0	0	0	0	3	0	0	7	0	4	0
	% Samples > 10x Crustal	0%	0%	21%	0%	0%	0%	0%	5%	0%	0%	71%	32%	0%	26%	0%	0%	0%	0%	0%	1%	0%	0%	2%	0%	1%	0%	
	Minimum	300	24	0.12	100	0.050	4.4	58	0.60	2.2	0.0010	100	0.10	0.60	0.20	0.20	8.6	0.010	0.010	0.20	50	0.040	0.050	3.0	0.050	3.0	14	3.8
	10th Percentile	8600	521	0.71	140	0.050	18	430	2.6	5.2	0.0010	940	0.33	2.0	0.20	0.20	27	0.010	0.010	0.70	192	0.12	0.17	20	0.14	6.0	44	11
	Median	18300	1056	4.0	200	0.050	47	814	6.4	47	0.0010	9800	1.0	4.2	0.20	0.20	110	0.010	0.090	1.7	720	1.1	0.50	58	0.63	8.5	92	30
	Average	20273	1187	22	260	0.11	60	845	49	80	0.013	14940	2.1	5.4	0.77	0.23	169	0.013	1.1	2.1	958	1.6	1.1	64	1.9	9.1	175	36
	Standard Deviation	13294	827	90	149	0.12	54	462	212	88	0.077	15359	3.4	4.1	1.4	0.13	439	0.012	2.4	1.6	802	1.7	2.1	43	3.6	4.7	436	26
	90th Percentile	33360	1854	34	400	0.26	102	1309	44	201	0.0086	38300	4.3	10	1.7	0.30	274	0.016	2.6	3.6	2036	4.0	1.9	112	4.4	13	213	64
	Maximum	84400	5845	1228	900	1.1	498	2082	3324	647	1.2	100000	47	30	13	1.2	8226	0.11	24	12	4450	11	21	267	40	26	6830	170
Andesite, Tuff, and Metasediments Ore-Grade Materials	Count	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41
	No. Samples > 10x Crustal	0	0	24	0	0	0	0	6	0	0	40	14	0	29	0	1	0	0	0	0	0	0	0	2	0	3	0
	% Samples > 10x Crustal	0%	0%	59%	0%	0%	0%	0%	15%	0%	0%	98%	34%	0%	71%	0%	2%	0%	0%	0%	0%	0%	0%	5%	0%	7%	0%	
	Minimum	2700	35	0.53	100	0.050	5.4	58	3.8	5.1	0.0010	2900	0.34	1.5	0.20	0.20	15	0.010	0.010	0.40	50	0.14	0.17	12	0.080	4.2	22	14
	10th Percentile	8800	157	3.2	200	0.050	13	499	6.1	16	0.0010	15800	0.58	2.2	0.30	0.20	34	0.010	0.060	0.90	300	0.33	0.35	25	0.41	6.3	33	22
	Median	18000	1004	15	300	0.050	41	794	13	104	0.0040	30100	1.1	4.4	1.1	0.20	132	0.010	1.8	1.9	820	2.2	0.80	53	0.87	11	108	41
	Average	19593	1146	77	300	0.13	47	801	115	136	0.061	31156	3.1	5.4	2.1	0.23	356	0.015	4.1	2.0	1005	2.4	2.4	60	2.2	11	336	46
	Standard Deviation	11133	1085	217	158	0.18	30	386	286	110	0.21	17520	7.0	3.3	2.3	0.12	1177	0.015	5.0	1.2	723	1.8	4.2	37	3.1	5.3	633	24
	90th Percentile	33300	2041	61	400	0.23	86	1175	170	326	0.041	48100	3.5	9.8	5.9	0.30	415	0.030	11	3.5	1810	4.4	7.1	105	5.3	15	813	74
	Maximum	38400	5845	1228	700	1.1	123	1324	1565	355	1.2	65400	47	14	9.5	0.60	8226	0.090	24	4.9	2740	7.2	21	137	16	23	3171	85
Andesite, Tuff, and Metasediments Mine Rock	Count	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244
	No. Samples > 10x Crustal	0	0	36	0	0	0	0	8	0	0	161	77	0	46	0	0	0	0	0	0	3	0	0	5	0	1	0
	% Samples > 10x Crustal	0%	0%	15%	0%	0%	0%	3%	0%	0%	66%	32%	0%	19%	0%	0%	0%	0%	0%	0%	1%	0%	0%	2%	0%	0%	0%	
	Minimum	300	24	0.12	100	0.050	4.4	99	0.60	2.2	0.0010	100	0.10	0.60	0.20	0.20	8.6	0.010	0.010	0.20	50	0.040	0.050	3.0	0.050	3.0	14	3.8
	10th Percentile	8600	629	0.69	100	0.050	19	425	2.5	4.9	0.0010	900	0.30	2.0	0.20	0.20	27	0.010	0.010	0.70	170	0.090	0.15	19	0.13	5.9	48	11
	Median	18400	1066	3.2	200	0.050	47	814	5.7	39	0.0010	6500	1.0	4.2	0.20	0.20	109	0.010	0.065	1.7	705	0.94	0.44	60	0.55	8.4	89	27
	Average	20387	1194	12	254	0.11	62	852	38	71	0.0045	12215	1.9	5.4	0.54	0.23	137	0.012	0.58	2.1	950	1.5	0.86	65	1.8	8.8	148	34
	Standard Deviation	13595	783	43	146	0.10	57	472	198	82	0.017	13675	2.4	4.2	1.1	0.13	114	0.012	1.4	1.6	813	1.7	1.4	44	3.6	4.5	394	26
	90th Percentile	33370	1848	20	400	0.26	108	1330	35	186	0.0050	29640	4.3	10	0.90	0.30	267	0.010	1.6	3.7	2047	3.6	1.7	115	4.3	12	199	61
	Maximum	84400	5008	552	900	0.68	498	2082	3324	647	0.21	100000	21	30	13	1.2	690	0.11	15	12	4450	11	20	267	40	26	6830	170
All Porphyry Samples	Count	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77
	No. Samples > 10x Crustal	0	0	43	0	0	0	0	11	0	0	67	25	0	49	0	0	0	0	0	0	0	0	0	2	0	1	0
	% Samples > 10x Crustal	0%	0%	56%	0%	0%	0%	0%	14%	0%	0%	87%	32%	0%	64%	0%	0%	0%	0%	0%	0%	0%	0%	0%	3%	0%	1%	0%
	Minimum	200	16	0.18	100	0.050	2.0	48	0.80	2.2	0.0010	100	0.19	0.20	0.20	0.20	8.9	0.010	0.010	0.20	50	0.050	0.050	2.0	0.050	3.0	6.0	1.3
	10th Percentile	900	35	2.0	100	0.050	4.4	162	11	12	0.0010	3180	0.73	0.30	0.20	0.20	69	0.010	0.030	1.9	50	0.23	0.98	4.0	0.24	5.3	41	34
	Median	6300	516	16	300	0.11	11	595	43	50	0.0030	10200	1.4	1.0	0.70	0.20	273	0.010	1.3	5.0	210	0.89	4.4	10	0.62	8.9	104	82
	Average	8471	869	38	274	0.16	19	680	83	73	0.013	13610	2.2	1.7	1.3	0.25	325	0.011	2.6	6.3	357	1.2	4.7	19	1.6	8.9	176	82
	Standard Deviation	7305	1158	51	158	0.13	17	575	121	67	0.028	12187	2.2	1.6	1.4	0.15	266	0.0079	3.9	4.5	387	1.1	3.0	19	3.0	4.9	273	48
	90th Percentile	19060	1683	88	400	0.30	47	1277	150	163	0.028	29980	3.6	4.1	2.5	0.40	639	0.010	6.3	12	868	2.4	8.1	48	2.0	12	250	128
	Maximum	31700	9407	439	600	0.84	75	4551	1112	438	0.25	65800	18	8.8	7.8	0.70	1510	0.070	32	26	2770	8.5	12	118	26	19	2653	160
Porphyry Ore-Grade Materials	Count	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
	No. Samples > 10x Crustal	0	0	10	0	0	0	0	2	0	0	11	8	0	11	0	0	0	0	0	0	0	0	0	1	0	0	0
	% Samples > 10x Crustal	0%	0%	71%	0%	0%	0%	0%	14%	0%	0%	79%	57%	0%	79%	0%	0%	0%	0%	0%	0%	0%	0%	0%	7%	0%	0%	0%
	Minimum	400	41	0.71	100	0.050	4.3	111	3.4	12	0.0010	400	0.21	0.30	0.20	0.20	8.9	0.010	0.010	1.4	50	0.20	0.20	6.0	0.050	4.4	50	12
	10th Percentile	4850	50	1.2	100	0.062	6.4	189	5.3	17	0.0010	1340	0.73	0.56	0.23	0.20	59	0.010	0.055	1.5	83	0.3						

Includes samples analyzed by 3:1 aqua regia digestion and ICP-MS finish (see text).
10x Crustal Abundance values based on Price (1997)

Table B-8. Elemental Content Statistical Summary (Lithology)



	Parameter	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	10x Crustal Abundance (Price 1997)	--	9500	12	--	--	840	10500	140	--	--	3500	2	220	0.5	23	3700	--	--	96	--	8.5	27	1200	12.5	330	1650	700
All Lamprophyre Samples	Count	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
	No. Samples > 10x Crustal	0	0	3	0	0	0	0	0	0	0	5	2	0	4	0	0	0	0	0	0	1	0	0	0	0	0	
	% Samples > 10x Crustal	0%	0%	38%	0%	0%	0%	0%	0%	0%	0%	63%	25%	0%	50%	0%	0%	0%	0%	0%	0%	13%	0%	0%	0%	0%	0%	
	Minimum	7000	67	0.37	100	0.12	16	323	5.2	83	0.0010	500	0.45	0.70	0.20	0.20	37	0.010	0.010	0.40	280	1.5	0.070	10	0.12	3.3	64	5.4
	10th Percentile	7490	73	0.54	170	0.13	20	335	5.3	102	0.0010	850	0.49	1.3	0.20	0.20	41	0.010	0.087	0.47	378	1.8	0.23	16	0.17	3.6	78	6.7
	Median	49200	723	3.8	300	0.18	160	593	9.8	273	0.0020	6250	0.92	18	0.40	0.30	281	0.010	0.31	2.6	2715	4.6	4.3	122	0.85	7.3	194	38
	Average	43488	1230	15	275	0.21	192	613	27	313	0.0030	9913	1.3	19	0.58	0.45	222	0.011	0.70	4.9	2556	5.9	5.7	114	1.2	7.3	206	51
	Standard Deviation	29570	1676	21	104	0.093	180	252	37	215	0.0028	12127	0.96	15	0.45	0.28	127	0.0035	0.92	7.1	1623	4.4	6.1	77	1.2	3.3	114	53
	90th Percentile	75920	2657	36	400	0.34	431	931	61	513	0.0062	22180	2.6	35	1.2	0.83	332	0.013	1.6	11	4331	10	12	200	2.9	12	329	105
	Maximum	76200	5077	62	400	0.35	527	1033	113	754	0.0090	36600	3.1	39	1.3	0.90	373	0.020	2.7	22	4590	15	18	227	3.0	13	338	160
Lamprophyre Ore-Grade Materials	Count	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	No. Samples > 10x Crustal	0	0	1	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
	% Samples > 10x Crustal	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	Maximum	7700	67	62	100	0.14	21	553	113	110	0.0050	36600	2.4	1.6	1.3	0.30	160	0.020	2.7	5.1	420	2.0	7.8	19	1.2	11	338	82
Lamprophyre Mine Rock	Count	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
	No. Samples > 10x Crustal	0	0	2	0	0	0	0	0	0	0	4	1	0	3	0	0	0	0	0	0	1	0	0	0	0	0	
	% Samples > 10x Crustal	0%	0%	29%	0%	0%	0%	0%	0%	0%	0%	57%	14%	0%	43%	0%	0%	0%	0%	0%	0%	14%	0%	0%	0%	0%	0%	
	Minimum	7000	75	0.37	200	0.12	16	323	5.2	83	0.0010	500	0.45	0.70	0.20	0.20	37	0.010	0.010	0.40	280	1.5	0.070	10	0.12	3.3	64	5.4
	10th Percentile	14560	85	0.51	200	0.13	51	333	5.3	152	0.0010	800	0.49	6.0	0.20	0.20	41	0.010	0.076	0.46	1222	2.6	0.21	47	0.16	3.5	76	6.5
	Median	62800	1004	3.5	300	0.21	168	633	9.0	306	0.0020	4400	0.87	25	0.20	0.30	284	0.010	0.14	1.3	2830	4.7	2.4	127	0.57	7.1	157	17
	Average	48600	1397	8.5	300	0.21	216	622	15	342	0.0027	6100	1.1	21	0.47	0.47	231	0.010	0.41	4.9	2861	6.5	5.4	128	1.2	6.7	187	46
	Standard Deviation	27860	1738	11	82	0.096	180	271	13	215	0.0029	5992	0.90	14	0.37	0.29	134	0	0.44	7.7	1485	4.5	6.6	72	1.3	3.2	108	55
	90th Percentile	75960	3003	24	400	0.34	445	945	32	548	0.0054	13300	1.9	35	0.92	0.84	338	0.010	0.98	12	4368	11	13	204	2.9	9.8	324	100
	Maximum	76200	5077	26	400	0.35	527	1033	39	754	0.0090	16000	3.1	39	1.1	0.90	373	0.010	1.1	22	4590	15	18	227	3.0	13	325	160

Includes samples analyzed by 3:1 aqua regia digestion and ICP-MS finish (see text).

10x Crustal Abundance values based on Price (1997)

Table B-9. Elemental Content Statistical Summary (Zone)



	Parameter	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	
Units		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
10x Crustal Abundance (Price 1997)		0.75	--	18	4E-05	100	4250	30	0.085	--	1.5	--	250	1020	--	600	--	190	15	--	0.85	--	--	--	390	200
All Portage Samples	Count	488	488	488	488	488	488	488	488	488	488	484	488	488	488	488	488	488	488	488	488	488	488	488	488	
	No. Samples > 10x Crustal	247	0	312	488	1	0	0	276	0	57	0	0	2	0	3	0	0	0	0	0	20	0	0	10	35
	% Samples > 10x Crustal	51%	0%	64%	100%	0%	0%	0%	57%	0%	12%	0%	0%	0%	0%	1%	0%	0%	0%	0%	4%	0%	0%	2%	7%	
	Minimum	0.020	2000	1.6	0.00050	10	12	0.050	0.010	300	0.010	5.6	0.80	1.0	0.13	7.6	3300	0.91	0.050	0.080	0.0050	0.0050	600	2.4	1.0	
	10th Percentile	0.10	4670	6.0	0.0085	10	21	0.26	0.020	1100	0.050	22	7.0	26	0.94	21	16500	1.8	0.060	0.35	0.011	0.0050	1600	11	7.3	
	Median	0.76	12800	28	0.16	10	60	0.55	0.12	16600	0.18	47	28	52	7.3	65	53400	4.8	0.11	0.94	0.058	0.012	7300	24	29	
	Average	2.5	15069	47	0.51	13	92	0.70	0.35	22125	0.91	74	26	74	13	86	48851	5.5	0.14	1.1	0.19	0.015	9308	59	64	
	Standard Deviation	5.6	9703	62	1.5	8.2	97	0.65	0.82	21450	3.1	84	13	110	19	129	21662	3.3	0.11	0.72	0.55	0.011	7648	220	129	
	90th Percentile	5.5	29830	108	1.1	18	200	1.3	0.79	50950	2.0	136	41	117	29	142	72960	10	0.23	2.1	0.35	0.025	19700	85	131	
	Maximum	60	60400	612	25	163	969	7.6	15	161700	51	500	95	1303	270	2028	147100	27	1.5	4.6	9.8	0.13	56600	4269	1936	
Portage Ore-Grade Materials	Count	118	118	118	118	118	118	118	118	118	118	117	118	118	118	118	118	118	118	118	118	118	118	118	118	
	No. Samples > 10x Crustal	101	0	88	118	1	0	0	84	0	21	0	0	0	0	1	0	0	0	0	8	0	0	4	26	
	% Samples > 10x Crustal	86%	0%	75%	100%	1%	0%	0%	71%	0%	18%	0%	0%	0%	0%	1%	0%	0%	0%	0%	7%	0%	0%	3%	22%	
	Minimum	0.050	2200	3.8	0.0034	10	12	0.22	0.010	300	0.020	10	0.80	1.0	0.20	13	7100	0.96	0.050	0.22	0.016	0.0050	1000	5.6	2.2	
	10th Percentile	0.65	6070	13	0.34	10	21	0.34	0.050	770	0.060	25	9.6	32	3.0	34	17840	2.7	0.080	0.60	0.040	0.0067	4870	12	15	
	Median	3.2	13800	33	0.86	10	47	0.74	0.20	3800	0.26	54	30	55	11	89	55900	5.0	0.15	1.1	0.15	0.013	12600	29	65	
	Average	5.6	14917	58	1.5	14	74	0.93	0.42	14934	1.5	88	28	57	14	122	52024	5.7	0.17	1.2	0.29	0.017	13003	69	140	
	Standard Deviation	8.0	7629	60	2.6	15	75	0.82	0.62	24498	3.5	101	12	23	12	122	20191	2.8	0.13	0.58	0.46	0.014	6956	148	225	
	90th Percentile	13	25230	139	2.7	20	143	1.5	0.94	45670	3.0	160	40	81	29	245	75250	10	0.28	2.0	0.61	0.028	21830	115	388	
	Maximum	57	35900	334	25	163	387	7.6	4.3	161700	20	500	67	135	72	988	100500	15	1.1	4.3	3.4	0.13	33900	906	1936	
Portage Mine Rock	Count	370	370	370	370	370	370	370	370	370	370	367	370	370	370	370	370	370	370	370	370	370	370	370	370	
	No. Samples > 10x Crustal	146	0	224	370	0	0	0	192	0	36	0	0	2	0	2	0	0	0	0	12	0	0	6	9	
	% Samples > 10x Crustal	39%	0%	61%	100%	0%	0%	0%	52%	0%	10%	0%	0%	1%	0%	1%	0%	0%	0%	0%	3%	0%	0%	2%	2%	
	Minimum	0.020	2000	1.6	0.00050	10	12	0.050	0.010	300	0.010	5.6	1.5	4.0	0.13	7.6	3300	0.91	0.050	0.080	0.0050	0.0050	600	2.4	1.0	
	10th Percentile	0.089	4380	5.3	0.0068	10	21	0.22	0.020	1480	0.040	21	6.6	26	0.89	19	16090	1.7	0.060	0.31	0.0089	0.0050	1400	9.6	6.6	
	Median	0.50	12200	25	0.091	10	64	0.50	0.10	25000	0.17	45	28	51	6.5	58	52100	4.8	0.10	0.82	0.043	0.012	6400	22	26	
	Average	1.5	15118	44	0.20	12	98	0.63	0.33	24418	0.74	69	26	79	13	75	47839	5.5	0.12	1.1	0.16	0.014	8129	56	40	
	Standard Deviation	4.1	10285	62	0.62	4.4	103	0.57	0.87	19878	3.0	78	13	125	21	129	22041	3.4	0.10	0.76	0.58	0.0099	7490	239	57	
	90th Percentile	3.0	30340	97	0.38	18	213	1.1	0.74	51810	1.4	129	41	126	30	120	72520	10	0.20	2.1	0.26	0.023	17900	78	74	
	Maximum	60	60400	612	10	33	969	7.1	15	74000	51	500	95	1303	270	2028	147100	27	1.5	4.6	9.8	0.089	56600	4269	570	
All Camp Samples	Count	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	
	No. Samples > 10x Crustal	16	0	87	104	0	0	0	27	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
	% Samples > 10x Crustal	15%	0%	84%	100%	0%	0%	0%	26%	0%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	0%	0%	0%	0%	
	Minimum	0.010	2500	4.4	0.00050	10	10	0.050	0.010	2900	0.010	3.1	6.5	18	0.51	4.2	5300	0.94	0.050	0.030	0.0050	0.0050	400	1.8	2.2	
	10th Percentile	0.060	8660	13	0.0024	10	13	0.17	0.010	18740	0.050	17	23	32	1.3	18	46520	2.9	0.050	0.20	0.0050	0.010	1000	7.5	7.3	
	Median	0.20	18850	55	0.021	10	37	0.41	0.040	39750	0.10	27	33	65	11	67	65000	6.1	0.080	0.62	0.017	0.018	6750	13	27	
	Average	0.47	20428	98	0.23	13	58	0.47	0.16	44044	0.23	37	35	87	16	68	66823	6.6	0.092	0.70	0.042	0.019	7111	19	31	
	Standard Deviation	0.95	10542	111	0.68	4.0	52	0.34	0.50	25801	0.64	53	9.7	76	26	37	18331	3.2	0.043	0.45	0.14	0.0099	6616	34	24	
	90th Percentile	1.3	34830	297	0.53	18	119	0.81	0.25	68670	0.36	44	48	153	27	110	90030	11	0.14	1.3	0.063	0.032	13770	22	59	
	Maximum	8.5	43000	451	5.1	27	269	2.8	4.4	195500	6.2	459	60	623	158	251	124600	16	0.29	2.3	1.3	0.060	34300	278	136	

Includes samples analyzed by 3:1 aqua regia digestion and ICP-MS finish (see text).

10x Crustal Abundance values based on Price (1997)

Table B-9. Elemental Content Statistical Summary (Zone)



Parameter	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
10x Crustal Abundance (Price 1997)	0.75	--	18	4E-05	100	4250	30	0.085	--	1.5	--	250	1020	--	600	--	190	15	--	0.85	--	--	390	200
Camp Ore-Grade Materials	Count	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
	No. Samples > 10x Crustal	9	0	16	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	% Samples > 10x Crustal	56%	0%	100%	100%	0%	0%	0%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	Minimum	0.040	4100	20	0.0016	10	12	0.19	0.010	16700	0.050	20	25	18	1.1	9.6	51300	1.4	0.050	0.14	0.0050	0.011	1000	7.9
	10th Percentile	0.075	10200	43	0.0080	10	20	0.26	0.015	25750	0.060	21	28	28	1.8	27	55250	2.9	0.055	0.43	0.014	0.012	1200	9.0
	Median	1.1	14950	116	0.52	11	46	0.48	0.080	53350	0.16	33	34	63	15	62	64150	5.4	0.090	0.60	0.035	0.018	9450	15
	Average	1.5	18713	199	1.1	13	58	0.52	0.13	58894	0.18	54	34	75	18	63	67388	5.6	0.092	0.72	0.048	0.018	8888	31
	Standard Deviation	2.1	10109	161	1.4	4.2	43	0.26	0.14	31059	0.096	75	5.2	52	19	32	12033	2.8	0.030	0.36	0.038	0.0059	6308	54
	90th Percentile	2.5	32400	427	3.0	18	109	0.89	0.33	105850	0.31	77	41	132	33	107	84000	9.4	0.13	1.1	0.11	0.025	14000	43
	Maximum	8.5	37700	451	5.1	25	173	1.1	0.44	123700	0.33	326	44	205	78	111	94700	12	0.15	1.6	0.13	0.031	25300	231
	Count	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88
Camp Mine Rock	No. Samples > 10x Crustal	7	0	71	88	0	0	0	19	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0
	% Samples > 10x Crustal	8%	0%	81%	100%	0%	0%	0%	22%	0%	2%	0%	0%	0%	0%	0%	0%	0%	0%	1%	0%	0%	0%	0%
	Minimum	0.010	2500	4.4	0.00050	10	10	0.050	0.010	2900	0.010	3.1	6.5	23	0.51	4.2	5300	0.94	0.050	0.030	0.0050	0.0050	400	1.8
	10th Percentile	0.060	8570	11	0.0022	10	13	0.16	0.010	17840	0.050	16	23	34	1.3	18	45640	3.0	0.050	0.18	0.0050	0.010	900	6.6
	Median	0.16	20000	50	0.017	10	37	0.40	0.040	38800	0.090	27	33	65	11	68	66100	6.6	0.080	0.64	0.016	0.018	5150	13
	Average	0.29	20740	79	0.070	12	57	0.47	0.16	41344	0.24	34	35	90	15	69	66720	6.8	0.093	0.70	0.041	0.020	6788	17
	Standard Deviation	0.33	10645	89	0.16	4.0	54	0.36	0.54	23956	0.70	47	10	80	27	38	19308	3.2	0.045	0.47	0.15	0.010	6654	29
	90th Percentile	0.64	35190	171	0.15	18	120	0.80	0.16	63160	0.41	43	50	156	24	111	92340	11	0.14	1.3	0.044	0.032	13730	20
	Maximum	1.5	43000	387	0.98	27	269	2.8	4.4	195500	6.2	459	60	623	158	251	124600	16	0.29	2.3	1.3	0.060	34300	278
	Count	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102
	No. Samples > 10x Crustal	9	0	96	102	0	0	0	37	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0
All East Extension Samples	% Samples > 10x Crustal	9%	0%	94%	100%	0%	0%	0%	36%	0%	2%	0%	0%	0%	0%	0%	0%	0%	0%	1%	0%	0%	0%	0%
	Minimum	0.010	2000	9.0	0.00060	10	10	0.18	0.010	13300	0.030	5.3	3.3	2.0	0.53	8.3	7900	0.77	0.050	0.13	0.0060	0.0050	1000	2.2
	10th Percentile	0.061	3100	22	0.0048	10	34	0.29	0.020	27130	0.060	21	5.0	7.1	1.4	17	13730	1.3	0.050	0.57	0.017	0.0050	2710	9.1
	Median	0.19	6000	69	0.028	11	81	0.53	0.060	39600	0.12	45	22	27	6.4	38	49850	2.5	0.060	1.0	0.060	0.012	5500	20
	Average	0.37	9746	176	0.16	13	102	0.56	0.16	43394	0.35	47	22	45	15	40	45699	3.5	0.076	1.1	0.22	0.013	8214	23
	Standard Deviation	0.65	8123	244	0.41	3.6	85	0.26	0.21	19712	1.2	34	15	80	21	20	22306	2.3	0.037	0.52	1.3	0.0070	6326	23
	90th Percentile	0.65	20270	396	0.27	19	200	0.79	0.44	60100	0.49	68	35	70	47	69	73880	7.1	0.12	1.8	0.20	0.022	18750	31
	Maximum	5.6	36500	1254	2.5	23	522	2.1	1.2	149000	12	329	93	530	99	107	95200	9.6	0.28	2.8	1.3	0.048	26700	229
	Count	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92
	No. Samples > 10x Crustal	5	0	86	92	0	0	0	33	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
East Extension Mine Rock	% Samples > 10x Crustal	5%	0%	93%	100%	0%	0%	0%	36%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	Minimum	0.010	2000	9.0	0.00060	10	10	0.18	0.010	13300	0.030	5.3	3.3	2.0	0.73	8.3	7900	0.77	0.050	0.13	0.0060	0.0050	1000	2.2
	10th Percentile	0.060	3210	21	0.0044	10	35	0.35	0.020	27010	0.060	22	5.0	6.1	1.4	17	13070	1.3	0.050	0.55	0.016	0.0050	2710	9.4
	Median	0.18	6800	67	0.024	11	83	0.54	0.060	38150	0.12	47	22	27	7.8	38	49850	2.6	0.065	0.99	0.057	0.011	5850	21
	Average	0.31	10248	175	0.080	13	106	0.57	0.16	40804	0.20	49	23	47	16	40	45541	3.6	0.078	1.1	0.076	0.012	8554	24
	Standard Deviation	0.61	8327	254	0.26	3.6	88	0.27	0.21	13645	0.26	35	16	83	21	21	22702	2.3	0.038	0.54	0.082	0.0057	6484	24
	90th Percentile	0.51	20840	396	0.15	19	205	0.81	0.44	58320	0.39	69	37	71	50	71	76160	7.1	0.12	1.8	0.15	0.020	19070	31
	Maximum	5.6	36500	1254	2.5	23	522	2.1	1.2	82600	2.1	329	93	530	99	107	95200	9.6	0.28	2.8	1.3	0.048	26700	229
	Count	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	No. Samples > 10x Crustal	4	0	10	10	0	0	0	4	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0
East Extension Ore-Grade Materials	% Samples > 10x Crustal	40%	0%	100%	100%	0%	0%	0%	40%	0%	10%	0%	0%	0%	0%	0%	0%	0%	0%	10%	0%	0%	0%	0%
	Minimum	0.17	2200	27	0.041	10	24	0.22	0.030	39300	0.080	19	4.7	8.0	0.53	13	15300	1.2	0.050	0.71	0.035	0.0050	2200	8.3
	10th Percentile	0.19	2920	44	0.14	10	33	0.24	0.030	41010	0.098	19	7.4	11	1.9	18	22320	1.3	0.050	0.80	0.037	0.0095	2740	8.5
	Median	0.59	3950	214	0.74	12	51	0.40	0.055	48150	0.35	25	17	29	4.5	35	50000	1.9	0.055	1.1	0.25	0.016	3900	12
	Average	1.00	5130	186	0.90	13	66	0.43	0.16	67220	1.7	30	18	29	4.9	33	47150	2.4	0.062	1.2	1.5	0.020	5080	13
	Standard Deviation	0.79	3617	126	0.72	3.8	44	0.17	0.19	42173	3.8	12	8.8	17	3.3	13	19233	1.8	0.015	0.36	4.0	0.012	3454	4.7
	90th Percentile	2.0	6610	312	1.8	17	110	0.67	0.44	144230	2.5	45	28	47	7.6	46	68350	3.3	0.081	1.7	1.9	0.032	7350	19
	Maximum	2.1	14800	404	2.0	22	167	0.71	0.59	149000	12	54	30	62	12	52	69700	7.4	0.090	1.7	1.3	0.048	14100	23
	Count	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	No. Samples > 10x Crustal	4	0	10	10	0	0	0	4	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0

Includes samples analyzed by 3:1 aqua regia digestion and ICP-MS finish (see text).

10x Crustal Abundance values based on Price (1997)

Table B-9. Elemental Content Statistical Summary (Zone)



Parameter		Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	Zr
Units		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
10x Crustal Abundance (Price 1997)		--	9500	12	--	--	840	10500	140	--	--	3500	2	220	0.5	23	3700	--	--	96	--	8.5	27	1200	12.5	330	1650	700
All Portage Samples	Count	488	488	488	488	488	488	488	488	488	488	488	488	488	488	488	488	488	488	488	488	488	488	488	488	488	488	488
	No. Samples > 10x Crustal	0	0	240	0	0	0	0	58	0	0	401	101	0	273	0	2	0	0	0	0	3	1	0	6	0	6	0
	% Samples > 10x Crustal	0%	0%	49%	0%	0%	0%	0%	12%	0%	0%	82%	21%	0%	56%	0%	0%	0%	0%	0%	0%	1%	0%	1%	0%	1%	0%	
	Minimum	200	13	0.15	100	0.050	1.9	33	0.60	3.0	0.0010	100	0.10	0.20	0.20	0.20	8.6	0.010	0.010	0.20	50	0.050	0.070	2.0	0.050	3.0	5.0	3.8
	10th Percentile	4670	67	1.3	100	0.050	9.5	304	3.9	9.3	0.0010	1470	0.37	0.97	0.20	0.20	33	0.010	0.030	1.0	110	0.18	0.26	10	0.22	6.0	50	15
	Median	15650	853	11	200	0.060	37	766	20	80	0.0030	14950	1.0	3.7	0.70	0.20	133	0.010	1.0	2.2	565	1.5	1.6	47	0.71	8.9	113	44
	Average	16771	939	47	270	0.12	46	800	83	110	0.025	19967	2.2	4.6	1.7	0.26	210	0.013	3.0	3.8	820	1.8	3.1	54	1.6	9.5	202	53
	Standard Deviation	10942	862	116	128	0.12	43	439	251	102	0.093	17596	6.4	4.3	2.5	0.17	452	0.013	5.2	4.4	772	1.7	3.9	40	6.0	3.6	439	37
	90th Percentile	30130	1797	113	400	0.23	88	1276	159	244	0.041	47560	3.1	8.9	4.9	0.40	415	0.010	8.3	6.8	1850	3.6	7.0	107	2.6	13	322	102
	Maximum	81800	5139	1228	1000	1.1	527	4551	3324	754	1.2	100000	108	39	26	3.0	8226	0.15	48	35	4590	15	38	267	122	28	6830	225
Portage Ore-Grade Materials	Count	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118
	No. Samples > 10x Crustal	0	0	97	0	0	0	0	20	0	0	115	31	0	105	0	1	0	0	0	0	0	0	0	3	0	3	0
	% Samples > 10x Crustal	0%	0%	82%	0%	0%	0%	0%	17%	0%	0%	97%	26%	0%	89%	0%	1%	0%	0%	0%	0%	0%	0%	0%	3%	0%	3%	0%
	Minimum	300	18	0.71	100	0.050	4.3	33	4.0	7.5	0.0010	300	0.18	0.30	0.20	0.20	8.6	0.010	0.010	0.20	50	0.12	0.20	2.0	0.050	4.2	5.0	12
	10th Percentile	5400	62	8.0	100	0.050	11	229	8.9	56	0.0020	10360	0.51	1.6	0.50	0.20	31	0.010	0.62	1.0	215	0.92	0.69	16	0.41	6.7	55	28
	Median	15950	289	32	200	0.065	37	814	33	150	0.012	32450	1.1	4.0	2.9	0.20	84	0.010	5.7	1.9	720	2.3	2.4	48	1.0	10	122	47
	Average	16513	749	93	255	0.12	39	757	123	163	0.072	33416	3.7	5.0	3.7	0.27	224	0.014	7.1	3.4	929	2.4	3.4	57	2.8	11	247	55
	Standard Deviation	8847	914	176	130	0.13	22	380	325	94	0.17	17946	11	3.3	3.4	0.27	762	0.017	6.7	4.1	694	1.4	3.3	38	11	3.9	477	30
	90th Percentile	29200	1858	208	400	0.22	68	1211	205	299	0.17	59140	4.8	9.9	7.6	0.40	377	0.020	13	6.5	1810	4.1	7.2	106	3.2	15	407	88
	Maximum	38400	5139	1228	800	1.1	123	1741	2755	397	1.2	74700	108	15	26	3.0	8226	0.15	48	26	3330	7.2	21	215	122	26	3182	221
Portage Mine Rock	Count	370	370	370	370	370	370	370	370	370	370	370	370	370	370	370	370	370	370	370	370	370	370	370	370	370	370	370
	No. Samples > 10x Crustal	0	0	143	0	0	0	0	38	0	0	286	70	0	168	0	1	0	0	0	0	3	1	0	3	0	3	0
	% Samples > 10x Crustal	0%	0%	39%	0%	0%	0%	0%	10%	0%	0%	77%	19%	0%	45%	0%	0%	0%	0%	0%	0%	1%	0%	0%	1%	0%	1%	0%
	Minimum	200	13	0.15	100	0.050	1.9	48	0.60	3.0	0.0010	100	0.10	0.20	0.20	0.20	8.6	0.010	0.010	0.20	50	0.050	0.070	2.0	0.050	3.0	6.0	3.8
	10th Percentile	3900	75	0.96	100	0.050	9.4	328	3.4	8.3	0.0010	1100	0.36	0.90	0.20	0.20	34	0.010	0.020	0.90	90	0.16	0.22	8.0	0.19	5.8	48	14
	Median	15550	913	7.2	200	0.060	36	759	14	64	0.0020	11500	1.0	3.5	0.50	0.20	144	0.010	0.56	2.3	520	1.2	1.3	46	0.60	8.5	106	41
	Average	16853	1000	32	275	0.12	48	813	70	93	0.0093	15678	1.7	4.5	1.0	0.25	205	0.012	1.7	3.9	786	1.6	3.0	53	1.2	9.2	187	52
	Standard Deviation	11540	837	83	126	0.12	48	455	221	98	0.029	15174	3.5	4.6	1.7	0.13	293	0.011	3.8	4.5	793	1.7	4.0	41	2.2	3.4	426	39
	90th Percentile	30210	1780	76	400	0.24	94	1318	141	217	0.017	36320	3.0	8.6	2.0	0.40	418	0.010	3.8	7.0	1864	3.3	7.0	107	2.2	13	307	106
	Maximum	81800	5077	977	1000	1.0	527	4551	3324	754	0.37	100000	55	39	16	1.2	4181	0.11	48	35	4590	15	38	267	24	28	6830	225
All Camp Samples	Count	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
	No. Samples > 10x Crustal	0	0	18	0	0	0	0	2	0	0	71	47	0	17	0	0	0	0	0	0	1	0	0	6	0	0	0
	% Samples > 10x Crustal	0%	0%	17%	0%	0%	0%	0%	2%	0%	0%	68%	45%	0%	16%	0%	0%	0%	0%	0%	1%	0%	0%	6%	0%	0%	0%	
	Minimum	300	24	0.30	100	0.050	13	92	0.80	2.2	0.0010	100	0.19	0.70	0.20	0.20	9.4	0.010	0.010	0.20	50	0.040	0.050	6.0	0.050	4.2	11	1.3
	10th Percentile	10980	690	0.66	200	0.050	26	472	2.2	4.5	0.0010	1130	0.31	3.2	0.20	0.20	51	0.010	0.010	0.70	293	0.12	0.11	38	0.13	6.1	47	10
	Median	16850	1064	2.2	200	0.070	52	727	5.0	56	0.0010	5100	1.8	5.6	0.20	0.20	104	0.010	0.030	1.4	980	1.5	0.42	69	0.62	9.2	78	33
	Average	19557	1165	10	261	0.11	60	735	17	59	0.0020	13202	2.3	6.7	0.40	0.21	125	0.011	0.20	1.7	1048	1.7	0.90	76	2.9	9.6	92	34
	Standard Deviation	9098	511	39	92	0.075	32	230	57	57	0.0028	15366	2.6	4.4	0.62	0.058	91	0.0091	0.90	1.1	725	1.6	2.3	41	5.5	3.0	76	21
	90th Percentile	31710	1696	18	400	0.22	106	1028	26	117	0.0030	36140	4.0	10	0.70	0.20	210	0.010	0.36	3.0	1961	3.7	1.5	122	11	14	131	62
	Maximum	44000	4315	391	500	0.34	132	1593	547	280	0.022	65400	18	30	6.0	0.60	548	0.10	9.0	8.0	3210	8.6	19	294	30	19	735	103

Includes samples analyzed by 3:1 aqua regia digestion and ICP-MS finish (see text).

10x Crustal Abundance values based on Price (1997)

Table B-9. Elemental Content Statistical Summary (Zone)



	Parameter	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
10x Crustal Abundance (Price 1997)		--	9500	12	--	--	840	10500	140	--	--	3500	2	220	0.5	23	3700	--	--	96	--	8.5	27	1200	12.5	330	1650	700
Camp Ore-Grade Materials	Count	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
	No. Samples > 10x Crustal	0	0	6	0	0	0	0	0	0	0	13	10	0	8	0	0	0	0	0	0	0	0	0	1	0	0	0
	% Samples > 10x Crustal	0%	0%	38%	0%	0%	0%	0%	0%	0%	0%	81%	63%	0%	50%	0%	0%	0%	0%	0%	0%	0%	0%	6%	0%	0%	0%	0%
	Minimum	9200	687	0.30	100	0.050	26	491	1.5	5.1	0.0010	200	0.53	3.7	0.20	0.20	24	0.010	0.010	0.60	300	0.13	0.050	29	0.080	5.4	40	8.1
	10th Percentile	12500	907	0.70	150	0.050	27	504	3.6	6.6	0.0010	3100	0.84	4.2	0.20	0.20	65	0.010	0.015	0.80	415	0.30	0.21	37	0.20	6.4	54	20
	Median	18200	1086	5.9	300	0.060	54	663	11	83	0.0015	21900	2.1	5.5	0.60	0.20	183	0.010	0.27	1.8	845	2.1	0.46	65	0.74	11	73	31
	Average	20225	1374	33	250	0.084	59	696	19	78	0.0027	26994	2.0	6.2	0.96	0.20	209	0.011	0.89	1.7	968	2.0	1.9	66	2.1	11	84	34
	Standard Deviation	7196	851	96	82	0.045	30	192	24	57	0.0026	19445	0.84	2.1	1.4	2.9E-17	159	0.0025	2.2	0.70	610	1.4	4.6	24	5.1	3.7	34	14
	90th Percentile	29350	1748	25	300	0.14	101	924	29	143	0.0045	49200	3.0	9.3	1.5	0.20	462	0.010	1.3	2.6	1730	4.2	2.4	96	2.6	15	133	53
	Maximum	32400	4315	391	400	0.19	115	1176	101	203	0.011	65400	3.5	10	6.0	0.20	548	0.020	9.0	2.8	2540	4.3	19	105	21	19	147	65
Camp Mine Rock	Count	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88
	No. Samples > 10x Crustal	0	0	12	0	0	0	0	2	0	0	58	37	0	9	0	0	0	0	0	0	1	0	0	5	0	0	0
	% Samples > 10x Crustal	0%	0%	14%	0%	0%	0%	0%	2%	0%	0%	66%	42%	0%	10%	0%	0%	0%	0%	0%	0%	1%	0%	0%	6%	0%	0%	0%
	Minimum	300	24	0.37	100	0.050	13	92	0.80	2.2	0.0010	100	0.19	0.70	0.20	0.20	9.4	0.010	0.010	0.20	50	0.040	0.050	6.0	0.050	4.2	11	1.3
	10th Percentile	10380	668	0.70	200	0.050	24	462	2.2	4.0	0.0010	1100	0.30	3.1	0.20	0.20	50	0.010	0.010	0.67	287	0.11	0.11	40	0.13	6.0	46	9.5
	Median	16450	1064	2.1	200	0.075	51	737	4.3	46	0.0010	4750	1.6	5.7	0.20	0.20	102	0.010	0.030	1.4	1005	1.1	0.40	70	0.59	8.8	79	34
	Average	19435	1127	6.0	263	0.11	61	742	17	56	0.0019	10694	2.4	6.8	0.30	0.22	109	0.011	0.078	1.7	1062	1.7	0.72	78	3.1	9.4	94	35
	Standard Deviation	9432	418	10	94	0.079	32	236	61	56	0.0028	13153	2.8	4.6	0.21	0.063	63	0.0099	0.11	1.2	746	1.7	1.6	43	5.5	2.8	81	23
	90th Percentile	32250	1601	15	400	0.25	108	1037	22	112	0.0030	28590	4.3	11	0.53	0.20	162	0.010	0.23	3.2	2027	3.6	1.3	130	11	13	129	63
	Maximum	44000	2322	69	500	0.34	132	1593	547	280	0.022	61100	18	30	1.6	0.60	402	0.10	0.53	8.0	3210	8.6	15	294	30	17	735	103
All East Extension Samples	Count	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102
	No. Samples > 10x Crustal	0	0	13	0	0	0	0	4	0	0	74	80	0	9	0	0	0	0	0	0	0	0	0	8	0	1	0
	% Samples > 10x Crustal	0%	0%	13%	0%	0%	0%	0%	4%	0%	0%	73%	78%	0%	9%	0%	0%	0%	0%	0%	0%	0%	0%	8%	0%	1%	0%	
	Minimum	600	489	0.070	100	0.050	3.0	338	2.8	5.2	0.0010	100	0.59	0.30	0.20	0.20	95	0.010	0.010	0.20	50	0.12	0.080	3.0	0.060	3.4	18	5.7
	10th Percentile	4620	853	0.48	200	0.050	8.4	577	4.6	17	0.0010	900	1.6	0.80	0.20	0.20	140	0.010	0.010	1.0	100	0.31	0.41	6.0	0.27	7.1	43	34
	Median	11550	1347	2.3	200	0.13	22	1197	11	58	0.0010	6950	3.3	2.9	0.20	0.20	280	0.010	0.035	2.9	680	1.3	0.91	27	0.93	9.6	80	57
	Average	15329	1556	8.9	267	0.19	41	1105	34	83	0.0013	12442	3.9	3.7	0.29	0.23	333	0.011	0.10	3.4	1034	2.0	1.9	34	3.9	9.8	114	62
	Standard Deviation	14164	1074	24	143	0.14	78	340	84	71	0.00097	14445	2.2	2.9	0.23	0.085	224	0.0035	0.23	2.0	986	1.7	2.1	28	7.2	2.7	221	29
	90th Percentile	30660	2335	15	400	0.40	63	1474	52	191	0.0020	31900	6.6	7.7	0.50	0.30	578	0.010	0.20	6.1	2605	4.7	4.9	83	10	13	183	101
	Maximum	84400	9407	192	900	0.68	498	1749	628	314	0.0080	70600	12	13	1.5	0.70	1510	0.030	1.8	9.1	3890	7.3	9.7	118	44	21	2267	170
East Extension Mine Rock	Count	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92
	No. Samples > 10x Crustal	0	0	8	0	0	0	0	2	0	0	64	71	0	4	0	0	0	0	0	0	0	0	0	6	0	0	0
	% Samples > 10x Crustal	0%	0%	9%	0%	0%	0%	0%	2%	0%	0%	70%	77%	0%	4%	0%	0%	0%	0%	0%	0%	0%	0%	7%	0%	0%	0%	
	Minimum	600	489	0.070	100	0.050	3.0	338	2.8	5.2	0.0010	100	0.59	0.30	0.20	0.20	95	0.010	0.010	0.20	50	0.12	0.080	3.0	0.060	3.4	18	5.7
	10th Percentile	4620	826	0.47	200	0.050	8.4	577	4.5	17	0.0010	900	1.6	0.80	0.20	0.20	140	0.010	0.010	1.0	100	0.31	0.41	5.1	0.27	6.9	44	33
	Median	11250	1314	2.1	200	0.14	22	1202	9.2	60	0.0010	5800	3.3	2.9	0.20	0.20	274	0.010	0.030	3.0	740	1.4	0.91	28	0.87	9.5	78	57
	Average	15796	1479	7.1	273	0.19	43	1111	30	86	0.0013	10661	3.7	3.7	0.25	0.23	324	0.011	0.070	3.5	1086	2.0	2.0	35	3.6	9.7	89	62
	Standard Deviation	14752	1013	22	145	0.14	82	342	81	73	0.00093	13064	2.1	2.9	0.15	0.074	208	0.0037	0.14	2.0	999	1.8	2.1	29	7.1	2.7	46	29
	90th Percentile	31870	1935	7.2	400	0.40	65	1489	47	193	0.0019	25450	6.3	8.2	0.39	0.30	575	0.010	0.15	6.1	2727	4.8	4.9	85	9.5	13	141	101
	Maximum	84400	9407	192	900	0.68	498	1749	628	314	0.0080	70600	12	13	1.1	0.60	1510	0.030	1.2	9.1	3890	7.3	9.7	118	44	21	257	170
East Extension Ore-Grade Materials	Count	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	No. Samples > 10x Crustal	0	0	5	0	0	0	0	2	0	0	10	9	0	5	0	0	0	0	0	0	0	0	0	2	0	1	0
	% Samples > 10x Crustal	0%	0%	50%	0%	0%	0%	0%	20%	0%	0%	100%	90%	0%	50%	0%	0%	0%	0%	0%	0%	0%	0%	20%	0%	10%	0%	
	Minimum	2700	1082	1.7	100	0.050	6.2	515	5.2	16	0.0010	8000	2.0	0.70	0.20	0.20	132	0.010	0.010	0.90	90	0.33	0.40	7.0	0.21	8.7	22	34
	10th Percentile	4860	1163	2.0	100	0.077	9.6	656	8.7	20	0.0010	11600	2.4	0.88	0.20	0.20	168	0.010	0.028	0.99	153	0.50	0.46	7.0	0.65	8.7	38	40
	Median	12150	1883	13	200	0.13	17	1078	34	41	0.0010	24750	4.1	3.4	0.50	0.20	339	0.010	0.24	1.9	305	1.1	0.83	23	2.2	11	121	54
	Average	11040	2262	25	210	0.18	27	1056	72	54	0.0015	28830	4.9	3.6														

Includes samples analyzed by 3:1 aqua regia digestion and ICP-MS finish (see text

Table B-10. Shake Flask Extraction Results

Parameter	Classification	Final Lithology Group	Zone	Data Source	Weight of dry sample used	Volume of DI water used	pH	EC	Acidity (to pH 8.3)	Total Alkalinity (to pH 4.5)	Sulphate	P (Colorimetric)	Cl	F	TDS	Hardness	Al	Sb	As
Unit					g	mL	pH units	mV	mg CaCO ₃ /L	mg CaCO ₃ /L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
PWQO							-	-	-	-	-	-	-	-	-	-	-	-	0.1
Interim PWQO							-	-	-	-	-	0.02	-	-	-	-	0.075	0.02	0.005
009555	Mine Rock	And. tuf. metaseds	PORT	KCC (2020)	250	750	7.38	159	3.0	19	38	-	2.6	0.070	85	49	0.11	0.0037	0.0042
009573	Ore-Grade Materials	TRA	PORT	KCC (2020)	100	300	6.68	1308	1.3	28	606	-	1.5	1.0	925	558	0.12	0.0029	0.0061
009587	Ore-Grade Materials	And. tuf. metaseds	PORT	KCC (2020)	250	750	7.40	153	4.0	33	16	-	0.91	0.030	95	46	0.025	0.00050	0.0016
009594	Ore-Grade Materials	VBX	PORT	KCC (2020)	100	300	7.62	206	3.0	31	46	-	0.54	0.73	128	68	0.036	0.0027	0.0052
009608	Mine Rock	POR	PORT	KCC (2020)	250	750	7.22	231	3.0	17	68	-	0.41	0.40	128	66	0.060	0.0014	0.00070
009626	Ore-Grade Materials	And. tuf. metaseds	PORT	KCC (2020)	250	750	7.52	150	3.0	24	34	-	0.23	0.050	78	49	0.094	0.0025	0.00080
009668	Mine Rock	TRA	PORT	KCC (2020)	250	750	7.20	413	5.0	28	122	-	0.36	1.3	305	125	0.043	0.0020	0.0027
009688	Ore-Grade Materials	And. tuf. metaseds	Camp	KCC (2020)	250	750	8.83	113	<0.50	24	15	-	1.4	0.19	65	28	0.30	0.0027	0.0027
A00356169	Mine Rock	VBX	EAST-EXT	KCC (2020)	250	750	7.66	118	4.0	32	16	-	0.68	0.21	65	35	0.22	0.0028	0.0017
009702	Mine Rock	And. tuf. metaseds	Camp	KCC (2020)	250	750	7.63	101	3.5	32	9.0	-	1.0	0.13	55	29	0.26	0.012	0.0080
W-003	Ore-Grade Materials	And. tuf. metaseds	PORT	WSP (2021)	250	750	7.96	133	2.3	23	40	0.0075	-	-	-	43	0.20	0.012	0.0044
W-006	Ore-Grade Materials	POR	PORT	WSP (2021)	250	750	7.30	117	6.4	22	16	0.020	-	-	-	29	0.18	0.0042	0.0022
W-009	Ore-Grade Materials	POR	PORT	WSP (2021)	250	750	7.29	132	6.2	37	18	0.0085	-	-	-	50	0.061	0.0012	0.0020
W-014	Ore-Grade Materials	TRA	PORT	WSP (2021)	250	750	7.02	361	12	68	55	0.018	-	-	-	57	0.023	0.0029	0.0095
W-022	Ore-Grade Materials	TRA	PORT	WSP (2021)	250	750	6.83	172	5.9	9.7	52	0.010	-	-	-	53	0.36	0.00042	0.0041
W-028	Ore-Grade Materials	VBX	PORT	WSP (2021)	250	750	6.72	60	4.8	12	11	0.017	-	-	-	21	0.040	0.0036	0.0020
W-030	Ore-Grade Materials	TRA	PORT	WSP (2021)	250	750	6.83	120	6.1	9.3	26	0.0083	-	-	-	23	0.0096	0.0041	0.0059
W-032	Mine Rock	VBX	PORT	WSP (2021)	250	750	7.42	145	5.2	26	50	0.0082	-	-	-	57	0.28	0.0040	0.014
W-033	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	250	750	8.00	49	2.1	31	<0.50	0.012	-	-	-	20	0.56	0.0017	0.0015
W-035	Mine Rock	TRA	PORT	WSP (2021)	250	750	6.84	80	6.2	7.4	14	0.0082	-	-	-	15	0.036	0.0076	0.0033
W-041	Mine Rock	TRA	PORT	WSP (2021)	250	750	8.28	86	1.1	32	1.0	0.0087	-	-	-	16	0.32	0.0024	0.0082
W-042	Mine Rock	And. tuf. metaseds	Camp	WSP (2021)	250	750	7.86	65	3.5	36	<0.50	0.0085	-	-	-	26	0.42	0.015	0.00034
W-046	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	250	750	7.31	74	6.2	35	1.0	0.017	-	-	-	20	0.22	0.00037	0.00080
W-050	Mine Rock	TRA	Camp	WSP (2021)	250	750	8.06	86	2.2	44	<0.50	<0.0050	-	-	-	29	0.44	0.0063	0.0078
W-052	Mine Rock	VBX	Camp	WSP (2021)	250	750	7.57	160	5.3	39	41	<0.0050	-	-	-	61	0.18	0.013	0.0021
W-053	Mine Rock	VBX	PORT	WSP (2021)	250	750	7.31	155	6.0	22	45	<0.0050	-	-	-	50	0.19	0.0027	0.0028
W-054	Mine Rock	TRA	Camp	WSP (2021)	250	750	8.02	134	3.1	41	27	<0.0050	-	-	-	48	0.27	0.013	0.0020
W-055	Ore-Grade Materials	And. tuf. metaseds	PORT	WSP (2021)	250	750	7.13	138	6.4	25	30	<0.0050	-	-	-	57	0.096	0.0022	0.0044
W-059	Mine Rock	And. tuf. metaseds	Camp	WSP (2021)	250	750	7.93	99	3.7	36	11	<0.0050	-	-	-	40	0.44	0.026	0.014
W-060	Mine Rock	VBX	Camp	WSP (2021)	250	750	7.57	150	5.1	34	30	<0.0050	-	-	-	52	0.24	0.040	0.0051
W-063	Mine Rock	And. tuf. metaseds	Camp	WSP (2021)	250	750	7.95	80	3.8	37	6.2	<0.0050	-	-	-	33	0.51	0.020	0.0040
W-065	Mine Rock	VBX	Camp	WSP (2021)	250	750	7.38	156	5.9	28	41	<0.0050	-	-	-	60	0.14	0.0040	0.0029
W-067	Mine Rock	VBX	Camp	WSP (2021)	250	750	7.95	98	3.7	47	4.9	<0.0050	-	-	-	44	0.27	0.033	0.00093
W-070	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	250	750	8.39	89	0	36	12	<0.0050	-	-	-	25	0.48	0.019	0.023
W-072	Mine Rock	TRA	PORT	WSP (2021)	250	750	7.01	147	5.4	11	55	0.013	-	-	-	53	0.033	0.0019	0.0035
W-073	Mine Rock	TRA	Camp	WSP (2021)	250	750	7.66	150	3.4	38	32	0.0096	-	-	-	57	0.17	0.00095	0.00053
W-077	Mine Rock	And. tuf. metaseds	Camp	WSP (2021)	250	750	7.89	94	3.3	48	4.9	0.010	-	-	-	37	0.32	0.0099	0.013
W-079	Mine Rock	VBX	Camp	WSP (2021)	250	750	7.81	102	3.7	48	8.4	0.011	-	-	-	39	0.37	0.0027	0.018
W-081	Mine Rock	And. tuf. metaseds	Camp	WSP (2021)	250	750	7.88	76	3.3	41	4.3	0.010	-	-	-	26	0.59	0.014	0.0053
W-082	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	250	750	7.79	75	3.6	37	4.9	0.0099	-	-	-	27	0.31	0.00070	0.0023
W-086	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	250	750	7.71	110	3.1	33	21	0.0097	-	-	-	38	0.30	0.0013	0.0043
W-088	Mine Rock	TRA	PORT	WSP (2021)	250	750	6.84	164	16	39	31	0.011	-	-	-	46	0.084	0.0012	0.0046
W-091	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	250	750	7.34	85	15	44	7.3	0.014	-	-	-	29	0.32	0.0020	0.0050
W-102	Mine Rock	POR	PORT	WSP (2021)	250	750	7.39	90	14	42	12	0.0066	-	-	-	28	0.35	0.011	0.019
W-105	Mine Rock	TRA	PORT	WSP (2021)	250	750	7.14	118	16	24	35	0.0093	-	-	-	35	0.063	0.0010	0.0025
W-112	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	250	750	7.35	77	15	42	5.5	0.0073	-	-	-	29	0.29	0.00077	0.00079
W-126	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	250	750	7.21	138	17	36	45	0.0063	-	-	-	58	0.11	0.0011	0.00090
W-127	Mine Rock	POR	PORT	WSP (2021)	250	750	6.77	151	21	11	64	0.0060	-	-	-	49	0.088	0.0023	0.0058
W-137	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	250	750	7.23	104	15	39	18	0.0053	-	-	-	33	0.26	0.0023	0.0034
W-139	Mine Rock	VBX	PORT	WSP (2021)	250	750	7.19	165	17	41	48	<0.0050	-	-	-	65	0.10	0.0041	0.0011
W-150	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	250	750	7.18	95	14	23	23	0.0099	-	-	-	26	0.085	0.00059	0.00066
W-151	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	250	750	7.25	83	15	44	6.6	0.012	-	-	-	34	0.10	0.00080	0.00057

Greater than PWQO screening values

Greater than Interim PWQO screening values

Table B-10. Shake Flask Extraction Results



Parameter	Classification	Final Lithology Group	Zone	Data Source	Weight of dry sample used	Volume of DI water used	pH	EC	Acidity (to pH 8.3)	Total Alkalinity (to pH 4.5)	Sulphate	P (Colorimetric)	Cl	F	TDS	Hardness	Al	Sb	As
	Unit				g	mL	pH units	mV	mg CaCO3/L	mg CaCO3/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
PWQO					-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1
Interim PWQO					-	-	-	-	-	-	-	0.02	-	-	-	-	0.075	0.02	0.005
W-171	Ore-Grade Materials	And. tuf. metaseds	PORT	WSP (2021)	250	750	6.95	147	17	18	46	<0.0050	-	-	-	46	0.024	0.00045	0.00027
W-173	Mine Rock	VBX	PORT	WSP (2021)	250	750	6.99	154	19	26	35	0.064	-	-	-	56	0.076	0.0019	0.0025
W-176	Mine Rock	POR	PORT	WSP (2021)	250	750	7.20	55	13	23	6.8	0.027	-	-	-	16	0.062	0.00095	0.0037
W-179	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	250	750	7.11	55	13	21	10	0.0072	-	-	-	17	0.062	0.0010	0.00091
W-196	Mine Rock	VBX	PORT	WSP (2021)	250	750	7.33	105	14	44	14	0.0074	-	-	-	40	0.31	0.0027	0.011
W-199	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	250	750	7.32	88	15	44	9.2	0.0082	-	-	-	35	0.12	0.00066	0.0013
W-200	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	250	750	7.43	87	15	45	8.5	0.0088	-	-	-	36	0.47	0.018	0.0074
W-202	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	250	750	7.44	74	14	46	<0.50	0.017	-	-	-	28	0.44	0.021	0.0030
W-206	Mine Rock	VBX	EAST-EXT	WSP (2021)	250	750	6.87	83	12	45	4.4	0.0076	-	-	-	31	0.46	0.019	0.017
W-207	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	250	750	7.36	102	12	44	13	0.0064	-	-	-	42	0.31	0.0033	0.0041
W-208	Mine Rock	VBX	EAST-EXT	WSP (2021)	250	750	7.56	99	11	47	9.3	0.010	-	-	-	33	0.54	0.011	0.025
W-211	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	250	750	7.38	134	12	46	28	0.0077	-	-	-	44	0.27	0.0011	0.0035
W-215	Ore-Grade Materials	VBX	PORT	WSP (2021)	250	750	7.48	124	13	58	8.2	0.010	-	-	-	46	0.35	0.010	0.0050
W-217	Mine Rock	TRA	PORT	WSP (2021)	250	750	7.47	124	11	43	21	0.0096	-	-	-	42	0.40	0.016	0.015
W-220	Mine Rock	And. tuf. metaseds	Camp	WSP (2021)	250	750	7.24	177	12	40	58	0.0051	-	-	-	72	0.14	0.0019	0.0013
W-221	Mine Rock	POR	PORT	WSP (2021)	250	750	7.50	109	12	43	10	0.011	-	-	-	31	0.40	0.049	0.027
W-222	Mine Rock	And. tuf. metaseds	Camp	WSP (2021)	250	750	7.63	61	8.7	39	<0.50	0.0054	-	-	-	24	0.59	0.00093	0.0026
W-233	Mine Rock	TRA	PORT	WSP (2021)	250	750	7.56	99	11	41	12	0.015	-	-	-	33	0.50	0.014	0.026
W-234	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	250	750	7.56	94	11	50	5.0	<0.0050	-	-	-	33	0.39	0.00053	0.0012
W-237	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	250	750	7.52	85	11	41	11	0.0060	-	-	-	32	0.41	0.00089	0.0012
W-241	Mine Rock	TRA	EAST-EXT	WSP (2021)	250	750	7.62	88	10	54	1.0	0.0088	-	-	-	30	0.42	0.0054	0.0012
W-243	Mine Rock	TRA	EAST-EXT	WSP (2021)	250	750	7.52	86	10	49	1.0	0.0067	-	-	-	27	0.42	0.0056	0.0053
W-245	Mine Rock	TRA	EAST-EXT	WSP (2021)	250	750	7.46	74	10	41	5.2	0.0072	-	-	-	24	0.36	0.012	0.0059
W-253	Ore-Grade Materials	And. tuf. metaseds	Camp	WSP (2021)	250	750	7.46	126	11	45	19	0.026	-	-	-	47	0.34	0.0081	0.19
W-261	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	250	750	6.93	62	11	36	<0.50	0.0093	-	-	-	26	0.46	0.00046	0.0024
W-263	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	250	750	7.35	169	11	46	51	0.0062	-	-	-	63	0.30	0.0012	0.00072
W-266	Ore-Grade Materials	TRA	PORT	WSP (2021)	250	750	7.28	116	11	44	17	0.0081	-	-	-	41	0.030	0.0040	0.0046
W-267	Mine Rock	TRA	PORT	WSP (2021)	250	750	7.50	77	10	44	6.3	0.011	-	-	-	31	0.39	0.0011	0.0046
W-272	Mine Rock	TRA	PORT	WSP (2021)	250	750	7.31	133	11	41	26	0.0071	-	-	-	43	0.23	0.0088	0.0027
W-278	Mine Rock	TRA	PORT	WSP (2021)	250	750	7.42	134	11	44	24	0.0064	-	-	-	50	0.27	0.0035	0.0023
W-280	Mine Rock	TRA	PORT	WSP (2021)	250	750	6.79	118	11	29	23	0.0098	-	-	-	41	0.21	0.0029	0.00086
W-283	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	250	750	7.51	83	10	40	6.3	0.0058	-	-	-	29	0.35	0.0021	0.00088
W-290	Mine Rock	TRA	PORT	WSP (2021)	250	750	7.53	90	11	47	5.7	0.0059	-	-	-	34	0.44	0.0077	0.0018
W-299	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	250	750	7.31	133	12	33	30	0.0065	-	-	-	51	0.18	0.010	0.0093
W-301	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	250	750	7.50	96	11	42	9.3	<0.0050	-	-	-	35	0.28	0.013	0.018
W-306	Mine Rock	And. tuf. metaseds	Camp	WSP (2021)	250	750	7.55	69	10	39	0.50	<0.0050	-	-	-	25	0.49	0.029	0.0012
W-308	Mine Rock	And. tuf. metaseds	Camp	WSP (2021)	250	750	7.49	83	11	42	5.2	<0.0050	-	-	-	29	0.44	0.0011	0.00075
W-309	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	250	750	7.29	122	12	36	23	<0.0050	-	-	-	47	0.055	0.00091	0.0027
W-312	Mine Rock	And. tuf. metaseds	Camp	WSP (2021)	250	750	7.48	112	10	37	16	0.0050	-	-	-	37	0.27	0.0020	0.0040
W-314	Mine Rock	TRA	Camp	WSP (2021)	250	750	7.43	156	11	33	48	0.0056	-	-	-	52	0.33	0.032	0.010
W-324	Mine Rock	TRA	PORT	WSP (2021)	250	750	7.52	81	10	40	5.8	<0.0050	-	-	-	32	0.42	0.0015	0.0015
W-325	Mine Rock	TRA	PORT	WSP (2021)	250	750	7.38	143	11	34	32	<0.0050	-	-	-	47	0.19	0.0024	0.0016
M112005	Mine Rock	And. tuf. metaseds	EAST-EXT	WSP (2021)	250	750	6.90	86	3.3	34	6.7	<0.0050	-	-	-	30	0.41	0.0042	0.0086
M112010	Mine Rock	And. tuf. metaseds	EAST-EXT	WSP (2021)	250	750	6.88	86	4.8	39	7.1	0.0064	-	-	-	31	0.35	0.018	0.0015
M112016	Mine Rock	VBX	EAST-EXT	WSP (2021)	250	750	6.97	71	3.2	37	5.5	0.0077	-	-	-	26	0.42	0.013	0.012
M112031	Ore-Grade Materials	TRA	EAST-EXT	WSP (2021)	250	750	6.82	82	3.5	27	9.0	0.0076	-	-	-	30	0.28	0.013	0.0085
M112065	Mine Rock	And. tuf. metaseds	EAST-EXT	WSP (2021)	250	750	6.82	74	3.9	34	7.1	0.034	-	-	-	30	0.13	0.030	0.26
M112051	Mine Rock	And. tuf. metaseds	EAST-EXT	WSP (2021)	250	750	6.92	63	2.7	33	6.4	0.0082	-	-	-	21	0.36	0.0027	0.0050
M112068	Mine Rock	And. tuf. metaseds	EAST-EXT	WSP (2021)	250	750	6.80	67	2.9	30	6.9	0.041	-	-	-	24	0.13	0.010	0.25
M112074	Mine Rock	And. tuf. metaseds	EAST-EXT	WSP (2021)	250	750	6.67	67	3.7	29	7.7	0.022	-	-	-	30	0.12	0.010	0.13
M112086	Mine Rock	TRA	EAST-EXT	WSP (2021)	250	750	6.94	82	3.6	31	9.2	0.0091	-	-	-	28	0.33	0.036	0.024
M112089	Mine Rock	And. tuf. metaseds	EAST-EXT	WSP (2021)	250	750	7.19	71	1.7	36	6.7	0.0076	-	-	-	27	0.46	0.0062	0.0045
M112105	Mine Rock	And. tuf. metaseds	EAST-EXT	WSP (2021)	250	750	6.94	66	2.8	33	6.7	0.012	-	-	-	23	0.40	0.039	0.031
M112119	Mine Rock	TRA	EAST-EXT	WSP (2021)	250	750	7.04	79	3.0	33	7.3	0.0097	-	-	-	28	0.38	0.044	0.028
M112133	Mine Rock	TRA	EAST-EXT	WSP (2021)	250	750	7.07	72	2.4	32	7.3	0.0098	-	-	-	29	0.42	0.053	0.026
M112153	Mine Rock	TRA	EAST-EXT	WSP (2021)	250	750	6.84	64	2.5	26	7.9	0.011	-	-	-	24	0.36	0.018	0.019
M112163	Mine Rock	TRA	EAST-EXT	WSP (2021)	250	750	6.88	70	3.1	27	7.9	0.012	-	-	-	25	0.38	0.024	0.045

Greater than PWQO screening values

Greater than Interim PWQO screening values

Table B-10. Shake Flask Extraction Results

Parameter	Classification	Final Lithology Group	Zone	Data Source	Ba	Be	Bi	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	P
Unit					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
PWQO					-	0.011	-	-	0.002	-	0.001	0.009	0.005	0.3	0.005	-	-	-	0.002	-	0.025	-
Interim PWQO					-	-	0.2	-	0.0001	-	-	-	0.005	-	0.001	-	-	-	-	0.04	-	0.02
009555	Mine Rock	And. tuf. metaseds	PORT	KCC (2020)	0.093	<0.00010	<0.00010	<0.010	<0.00010	15	<0.00050	0.00020	0.0021	<0.020	0.00060	0.0016	2.6	0.023	<0.00050	0.0033	0.0039	0.050
009573	Ore-Grade Materials	TRA	PORT	KCC (2020)	0.051	0.00050	<0.00010	<0.010	0.015	187	<0.00050	0.80	0.078	1.2	<0.00050	0.0065	22	11	<0.00050	0.0010	0.51	<0.050
009587	Ore-Grade Materials	And. tuf. metaseds	PORT	KCC (2020)	0.0084	<0.00010	<0.00010	<0.010	0.00025	16	<0.00050	0.0019	0.069	0.020	<0.00050	0.0011	1.8	0.0067	<0.00050	0.0013	0.0091	<0.050
009594	Ore-Grade Materials	VBX	PORT	KCC (2020)	0.022	<0.00010	<0.00010	<0.010	0.000020	24	<0.00050	0.0013	0.038	0.030	<0.00050	0.0029	2.1	0.034	<0.00050	0.0037	0.011	0.070
009608	Mine Rock	POR	PORT	KCC (2020)	0.041	<0.00010	<0.00010	<0.010	0.000020	18	<0.00050	0.00030	0.0016	<0.020	<0.00050	0.0091	5.1	0.16	<0.00050	0.0084	0.0033	<0.050
009626	Ore-Grade Materials	And. tuf. metaseds	PORT	KCC (2020)	0.0073	<0.00010	<0.00010	<0.010	<0.00010	14	<0.00050	0.00010	0.0031	<0.020	<0.00050	0.0012	3.4	0.025	<0.00050	0.0049	0.0041	<0.050
009668	Mine Rock	TRA	PORT	KCC (2020)	0.067	<0.00010	<0.00010	<0.010	0.00024	47	<0.00080	0.0033	0.020	0.22	0.11	0.027	2.2	0.52	<0.00050	0.0039	0.031	<0.050
009688	Ore-Grade Materials	And. tuf. metaseds	Camp	KCC (2020)	0.0020	<0.00010	<0.00010	<0.010	<0.00010	9.2	<0.00050	<0.00010	0.00070	<0.020	<0.00050	0.0045	1.4	0.0021	<0.00050	0.00070	<0.00050	<0.050
A00356169	Mine Rock	VBX	EAST-EXT	KCC (2020)	0.0046	<0.00010	<0.00010	<0.010	<0.00010	12	<0.00050	<0.00010	0.0014	<0.020	<0.00050	0.0022	1.5	0.038	<0.00050	0.013	0.0019	<0.050
009702	Mine Rock	And. tuf. metaseds	Camp	KCC (2020)	0.013	<0.00010	<0.00010	<0.010	<0.00010	9.3	<0.00050	<0.00010	0.0018	<0.020	<0.00050	0.0027	1.4	0.015	<0.00050	0.011	<0.00050	0.060
W-003	Ore-Grade Materials	And. tuf. metaseds	PORT	WSP (2021)	0.68	<0.00010	<0.00010	<0.050	0.000015	16	<0.00010	0.000031	0.00039	0.0029	0.0011	0.0043	0.68	0.0025	<0.000050	0.067	0.0015	<0.010
W-006	Ore-Grade Materials	POR	PORT	WSP (2021)	0.10	<0.00010	<0.00010	<0.050	0.000034	10	0.00011	0.0017	0.0030	0.023	<0.000050	0.00096	0.62	0.0045	0.000017	0.12	0.0044	0.014
W-009	Ore-Grade Materials	POR	PORT	WSP (2021)	0.025	<0.00010	<0.00010	<0.050	0.000012	16	<0.00010	0.000060	0.00039	0.0065	<0.000050	0.0064	2.2	0.021	0.0000065	0.013	0.0014	<0.010
W-014	Ore-Grade Materials	TRA	PORT	WSP (2021)	0.024	<0.00010	<0.00010	<0.050	0.00013	18	<0.00010	0.0017	0.0049	0.0042	0.0013	0.016	2.7	0.012	<0.000050	0.020	0.014	0.013
W-022	Ore-Grade Materials	TRA	PORT	WSP (2021)	0.020	0.000015	<0.00010	0.014	0.0000051	17	0.00017	0.0026	0.016	0.017	<0.000050	0.0027	2.6	0.0037	<0.000050	0.013	0.0048	<0.010
W-028	Ore-Grade Materials	VBX	PORT	WSP (2021)	0.25	0.000011	<0.00010	0.0088	0.0000061	7.5	0.00010	0.00019	0.0020	0.035	0.00023	0.0011	0.51	0.0028	0.0000066	0.050	0.0016	<0.010
W-030	Ore-Grade Materials	TRA	PORT	WSP (2021)	0.068	0.000021	<0.00010	<0.050	0.00028	7.3	<0.00010	0.050	0.023	<0.0020	<0.000050	0.0017	1.2	0.028	0.0011	0.0090	0.051	<0.010
W-032	Mine Rock	VBX	PORT	WSP (2021)	0.0032	<0.00010	<0.00010	0.0066	0.0000036	18	<0.00010	0.00021	0.0020	<0.0020	<0.000050	0.0032	3.1	0.0067	<0.00001	0.0077	0.0048	<0.010
W-033	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	0.0073	<0.00010	<0.00010	0.0090	<0.0000020	6.9	0.00020	0.000098	0.00017	<0.0020	<0.000050	0.00017	0.61	0.0021	<0.0000050	0.00029	0.00091	0.011
W-035	Mine Rock	TRA	PORT	WSP (2021)	0.15	<0.00010	<0.00010	<0.050	0.000043	4.7	0.00012	0.0046	0.0053	0.0036	<0.000050	0.0011	0.90	0.021	0.0000025	0.10	0.015	<0.010
W-041	Mine Rock	TRA	PORT	WSP (2021)	0.020	<0.00010	<0.00010	<0.050	0.000012	4.4	<0.00010	0.000040	0.00019	0.0029	<0.000050	0.0021	1.2	0.0017	<0.0000050	0.090	0.00012	<0.010
W-042	Mine Rock	And. tuf. metaseds	Camp	WSP (2021)	0.0011	<0.00010	<0.00010	0.0076	<0.0000020	7.3	<0.00010	0.000086	0.00050	<0.0020	<0.000050	0.00092	1.9	0.0013	<0.0000050	0.00025	0.0037	<0.010
W-046	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	0.0012	<0.00010	<0.00010	<0.050	0.0000032	6.6	0.00012	0.00047	0.044	0.021	<0.000050	0.00082	0.83	0.024	0.0000057	0.00021	0.0042	0.014
W-050	Mine Rock	TRA	Camp	WSP (2021)	0.0042	<0.00010	<0.00010	0.0059	0.0000068	7.7	<0.00010	0.00012	0.00034	0.017	<0.000050	0.0013	2.4	0.0063	<0.0000050	0.0018	0.0020	<0.010
W-052	Mine Rock	VBX	Camp	WSP (2021)	0.0078	<0.00010	<0.00010	0.0050	0.0000039	16	0.00012	0.00018	0.00029	0.0042	<0.000050	0.0045	5.2	0.080	<0.0000050	0.0019	0.0052	<0.010
W-053	Mine Rock	VBX	PORT	WSP (2021)	0.12	<0.00010	<0.00010	0.0057	0.0000029	13	0.00014	0.00069	0.0040	0.033	0.0016	0.0041	4.0	0.21	0.0000091	0.0060	0.0097	<0.010
W-054	Mine Rock	TRA	Camp	WSP (2021)	0.025	<0.00010	<0.00010	<0.050	0.0000037	14	<0.00010	0.00053	0.00027	0.0023	<0.000050	0.0022	3.4	0.031	<0.0000050	0.0049	0.0022	<0.010
W-055	Ore-Grade Materials	And. tuf. metaseds	PORT	WSP (2021)	0.24	0.000012	<0.00010	0.0077	0.000014	17	0.00012	0.0023	0.0086	0.024	<0.000050	0.0033	3.3	0.011	0.000019	0.022	0.0068	<0.010
W-059	Mine Rock	And. tuf. metaseds	Camp	WSP (2021)	0.0020	<0.00010	<0.00010	<0.00500	<0.0000020	14	<0.00010	0.00089	0.00027	0.0045	<0.000050	0.00050	1.5	0.020	<0.0000050	0.00036	0.018	<0.010
W-060	Mine Rock	VBX	Camp	WSP (2021)	0.0023	<0.00010	<0.00010	0.0060	0.0000027	12	<0.00010	0.00017	<0.00010	0.0076	<0.000050	0.0023	4.7	0.037	<0.0000050	0.012	0.0016	<0.010
W-063	Mine Rock	And. tuf. metaseds	Camp	WSP (2021)	0.0011	<0.00010	<0.00010	<0.050	<0.0000020	13	<0.00010	0.00021	0.00065	0.0040	<0.000050	0.00065	0.81	0.014	<0.0000050	0.00028	0.0095	<0.010
W-065	Mine Rock	VBX	Camp	WSP (2021)	0.0094	<0.00010	<0.00010	<0.050	0.0000068	15	<0.00010	0.00063	0.00084	0.0049	<0.000050	0.0030	5.6	0.082	<0.0000050	0.024	0.0088	<0.010
W-067	Mine Rock	VBX	Camp	WSP (2021)	0.0075	<0.00010	<0.00010	0.0069	<0.0000020	13	<0.00010	0.00034	0.0022	0.0064	<0.000050	0.0020	2.9	0.011	<0.0000050	0.0068	0.013	<0.010
W-070	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	0.022	<0.00010	<0.00010	<0.050	<0.0000020	8.5	<0.00010	0.00018	0.00075	0.0039	<0.000050	0.0038	0.88	0.013	<0.0000050	0.0037	0.0053	<0.010
W-072	Mine Rock	TRA	PORT	WSP (2021)	0.13	0.00025	<0.00010	<0.050	0.00064	17	<0.00010	0.064	0.0022	<0.0020	0.012	0.0096	2.8	0.87	<0.0000050	0.0013	0.12	<0.010
W-073	Mine Rock	TRA	Camp	WSP (2021)	0.011	<0.00010	<0.00010	<0.050	<0.0000020	15	0.0015	0.00014	0.00061	0.012	<0.000050	0.0027	5.0	0.037	<0.0000050	0.0011	0.0035	<0.010
W-077	Mine Rock	And. tuf. metaseds	Camp	WSP (2021)	0.0017	<0.00010	<0.00010	0.0072	<0.0000020	10	<0.00010	0.00028	0.00056	<0.0020	0.00024	0.0011	2.9	0.012	<0.0000050	0.0029	0.0044	<0.010
W-079	Mine Rock	VBX	Camp	WSP (2021)	0.0032	<0.00010	<0.00010	<0.050	<0.0000020	11	<0.00010	0.00058	0.00087	0.0026	<0.000050	0.0024	2.7	0.037	<0.0000050	0.0043	0.0075	<0.010
W-081	Mine Rock	And. tuf. metaseds	Camp	WSP (2021)	0.0012	<0.00010	<0.00010	<0.050	<0.0000020	7.3	<0.00010	0.00018	0.00069	0.013	<0.000050	0.0017	2.0	0.011	<0.0000050	0.00039	0.0018	<0.010
W-082	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	0.0091	<0.00010	<0.00010	<0.050	<0.0000020	8.5	<0.00010	0.00075	0.0065	0.0026	<0.000050	0.0010	1.4	0.012	<0.0000050	0.0017	0.0043	<0.010
W-086	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	0.14	<0.00010	<0.00010	<0.050	0.0000066	13	0.00014	0.00021	0.0039	0.0093	0.000075	0.0048	1.6	0.021	<0.0000050	0.025	0.0040	<0.010
W-088	Mine Rock	TRA	PORT	WSP (2021)	0.014	0.000044	0.000013	<0.050	0.0000038	16	0.00059	0.0024	0.039	0.20	0.0023	0.0027	1.6	0.019	0.000015	0.0040	0.018	<0.010
W-091	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	0.0033	<0.00010	<0.00010	<0.050	<0.0000020	9.7	0.00017	0.000061	0.00097	0.0024	<0.000050	0.00081	1.2	0.012	<0.0000050	0.0023	0.0057	<0.010
W-102	Mine Rock	POR	PORT	WSP (2021)	0.18	<0.00010	<0.00010	<0.050	<0.0000020	9.5	<0.00010	0.00020	0.0013	0.0033	<0.0000							

Table B-10. Shake Flask Extraction Results

Parameter	Classification	Final Lithology Group	Zone	Data Source	Ba	Be	Bi	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	P
Unit					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
PWQO					-	0.011	-	-	0.002	-	0.001	0.009	0.005	0.3	0.005	-	-	-	0.0002	-	0.025	-
Interim PWQO					-	-	-	0.2	0.001	-	-	-	0.005	-	-	-	-	-	-	0.04	-	0.02
W-171	Ore-Grade Materials	And. tuf. metaseds.	PORT	WSP (2021)	0.018	<0.000010	<0.000010	<0.0050	0.00028	11	0.00014	0.0028	0.0046	0.013	0.00113	0.011	4.8	1.9	<0.000050	0.0018	0.013	<0.010
W-173	Mine Rock	VBX	PORT	WSP (2021)	0.058	0.000071	0.00012	0.0057	0.00061	16	0.00081	0.011	0.065	0.18	0.011	0.012	3.7	0.27	0.000012	0.013	0.023	0.087
W-176	Mine Rock	POR	PORT	WSP (2021)	0.23	0.000010	0.000048	0.0061	0.00015	3.9	0.00016	0.0015	0.026	0.026	0.0017	0.00079	1.4	0.015	<0.000050	0.0040	0.0065	0.035
W-179	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	0.0065	<0.000010	<0.000010	<0.0050	0.000033	4.2	0.00013	0.00094	0.023	0.016	0.000061	0.0021	1.7	0.050	<0.000050	0.0045	0.0051	<0.010
W-196	Mine Rock	VBX	PORT	WSP (2021)	0.046	<0.000010	<0.000010	<0.0050	<0.000020	12	<0.00010	0.000068	0.0053	0.0034	<0.000050	0.0021	2.3	0.026	<0.000050	0.0030	0.0019	<0.010
W-199	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	0.092	<0.000010	<0.000010	<0.0050	0.000094	12	0.00012	0.00012	0.0070	0.019	0.00011	0.00074	1.3	0.037	0.0000084	0.00062	0.0031	0.013
W-200	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	0.0033	<0.000010	<0.000010	<0.0050	0.0000024	12	0.00018	0.000039	0.0016	0.027	0.000055	0.00047	1.3	0.016	<0.000050	0.0032	0.0046	0.011
W-202	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	0.0028	<0.000010	<0.000010	<0.0050	<0.000020	9.1	0.00011	0.000051	0.0018	0.0090	<0.000050	0.00024	1.4	0.079	<0.000050	0.0067	0.0048	0.019
W-206	Mine Rock	VBX	EAST-EXT	WSP (2021)	0.0035	<0.000010	<0.000010	0.0075	<0.000020	9.9	<0.00010	0.00020	0.00044	0.0062	<0.000050	0.0021	1.5	0.026	<0.000050	0.0024	0.0029	<0.010
W-207	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	0.0031	<0.000010	<0.000010	0.0062	<0.000020	10	<0.00010	0.000056	0.00026	0.0026	<0.000050	0.0032	4.0	0.017	<0.000050	0.0025	0.0054	<0.010
W-208	Mine Rock	VBX	EAST-EXT	WSP (2021)	0.0032	<0.000010	<0.000010	0.0077	<0.000020	11	0.00010	0.00071	0.0021	0.013	<0.000050	0.0037	1.4	0.029	<0.000050	0.0027	0.011	<0.010
W-211	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	0.0079	<0.000010	<0.000010	0.0053	<0.000020	15	<0.00010	0.000036	0.00019	<0.0020	<0.000050	0.0060	1.9	0.039	<0.000050	0.0057	0.0031	<0.010
W-215	Ore-Grade Materials	VBX	PORT	WSP (2021)	0.0077	<0.000010	<0.000010	<0.0050	<0.000020	11	<0.00010	0.000099	0.0014	0.0050	<0.000050	0.0035	4.5	0.050	<0.000050	0.0041	0.0026	<0.010
W-217	Mine Rock	TRA	PORT	WSP (2021)	0.012	<0.000010	<0.000010	<0.0050	0.000039	13	0.00016	0.000022	0.0022	0.0061	<0.000050	0.0021	2.1	0.052	<0.000050	0.0047	0.0024	<0.010
W-220	Mine Rock	And. tuf. metaseds	Camp	WSP (2021)	0.0025	<0.000010	<0.000010	0.0082	<0.000020	17	<0.00010	0.00015	0.00053	<0.0020	<0.000050	0.0036	7.1	0.054	<0.000050	0.0029	0.0011	<0.010
W-221	Mine Rock	POR	PORT	WSP (2021)	0.15	<0.000010	<0.000010	0.0055	0.000090	11	<0.00010	0.00021	0.0013	0.0024	0.00081	0.0029	1.2	0.057	<0.000050	0.0021	0.0013	<0.010
W-222	Mine Rock	And. tuf. metaseds	Camp	WSP (2021)	0.023	<0.000010	<0.000010	0.0056	0.000029	8.4	0.00019	0.000030	0.00031	0.0025	<0.000050	0.00028	0.75	0.040	<0.000050	0.00020	0.0025	<0.010
W-233	Mine Rock	TRA	PORT	WSP (2021)	0.20	<0.000010	<0.000010	0.0053	0.000055	12	0.00012	0.00010	0.0049	0.0080	0.00016	0.0024	0.67	0.017	<0.000050	0.012	0.0010	<0.010
W-234	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	0.0081	<0.000010	<0.000010	0.0065	<0.000020	11	0.00045	0.00059	0.010	0.014	<0.000050	0.00056	1.5	0.022	<0.000050	0.0011	0.0054	<0.010
W-237	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	0.0073	<0.000010	<0.000010	<0.0050	<0.000020	11	<0.00010	0.00051	0.0034	0.0030	<0.000050	0.00079	1.4	0.021	<0.000050	0.0012	0.0039	<0.010
W-241	Mine Rock	TRA	EAST-EXT	WSP (2021)	0.0052	<0.000010	<0.000010	0.0061	<0.000020	7.2	0.00013	0.00018	0.00072	0.0046	<0.000050	0.0028	3.0	0.012	<0.000050	0.00020	0.0011	<0.010
W-243	Mine Rock	TRA	EAST-EXT	WSP (2021)	0.0056	<0.000010	<0.000010	0.0066	<0.000020	6.6	0.00017	0.00023	0.0025	0.013	<0.000050	0.0032	2.5	0.010	<0.000050	0.0011	0.0012	<0.010
W-245	Mine Rock	TRA	EAST-EXT	WSP (2021)	0.0044	<0.000010	<0.000010	0.0058	<0.000020	5.7	0.00011	0.00033	0.00082	0.010	<0.000050	0.0025	2.4	0.012	<0.000050	0.0024	0.0012	<0.010
W-253	Ore-Grade Materials	And. tuf. metaseds	Camp	WSP (2021)	0.0085	<0.000010	<0.000010	0.011	<0.000020	15	0.00013	0.000048	0.0019	0.0028	<0.000050	0.0058	2.3	0.022	0.0000061	0.0030	0.0012	<0.010
W-261	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	0.0037	<0.000010	<0.000010	0.0062	<0.000020	9.6	0.00024	0.000051	0.0020	0.0029	<0.000050	0.00065	0.46	0.058	<0.000050	0.00079	0.0047	<0.010
W-263	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	0.026	<0.000010	<0.000010	<0.0050	0.0000025	22	0.00013	0.00033	0.0036	0.0037	<0.000050	0.00086	1.8	0.046	<0.000050	0.00034	0.0020	<0.010
W-266	Ore-Grade Materials	TRA	PORT	WSP (2021)	0.038	<0.000010	<0.000010	<0.0050	0.000023	13	0.00012	0.00016	0.0026	0.0072	0.000087	0.021	2.3	0.012	<0.000050	0.0013	0.0019	<0.010
W-267	Mine Rock	TRA	PORT	WSP (2021)	0.0034	<0.000010	<0.000010	<0.0050	<0.000020	8.1	<0.00010	0.00042	0.0014	0.0034	<0.000050	0.0012	2.7	0.021	<0.000050	0.0024	0.0026	<0.010
W-272	Mine Rock	TRA	PORT	WSP (2021)	0.17	<0.000010	0.00012	<0.0050	0.000032	15	0.00011	0.000041	0.00033	0.0025	0.0096	0.0039	1.2	0.056	0.0000082	0.016	0.0042	<0.010
W-278	Mine Rock	TRA	PORT	WSP (2021)	0.0025	<0.000010	<0.000010	<0.0050	0.000032	12	0.00012	0.000034	0.00024	<0.0020	0.000088	0.0045	4.6	0.033	<0.000050	0.0053	0.0028	<0.010
W-280	Mine Rock	TRA	PORT	WSP (2021)	0.0028	<0.000010	<0.000010	<0.0050	0.000032	9.5	<0.00010	0.000020	0.0012	0.0020	<0.000050	0.0019	4.2	0.029	<0.000050	0.0053	0.0088	<0.010
W-283	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	0.0028	<0.000010	<0.000010	0.0056	<0.000020	10	<0.00010	0.000012	0.00032	0.0026	<0.000050	0.00056	0.99	0.022	<0.000050	0.0021	0.000084	<0.010
W-290	Mine Rock	TRA	PORT	WSP (2021)	0.014	<0.000010	<0.000010	<0.0050	<0.000020	9.2	<0.00010	0.000032	0.00018	<0.0020	<0.000050	0.00098	2.6	0.015	<0.000050	0.00036	0.0042	<0.010
W-299	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	0.0064	<0.000010	<0.000010	<0.0050	0.0000049	14	<0.00010	0.00036	0.00025	0.0025	<0.000050	0.0018	4.3	0.076	<0.000050	0.0020	0.0029	<0.010
W-301	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	0.0030	<0.000010	<0.000010	0.0050	<0.000020	9.2	<0.00010	0.00013	0.00016	<0.0020	<0.000050	0.0030	3.0	0.018	<0.000050	0.0020	0.0070	<0.010
W-306	Mine Rock	And. tuf. metaseds	Camp	WSP (2021)	0.00049	<0.000010	<0.000010	0.0052	<0.000020	6.4	<0.00010	0.000019	0.00015	0.0022	<0.000050	0.00055	2.2	0.0078	<0.000050	0.00056	0.0015	<0.010
W-308	Mine Rock	And. tuf. metaseds	Camp	WSP (2021)	0.0031	<0.000010	<0.000010	0.0063	<0.000020	7.6	<0.00010	0.000025	0.00017	0.0023	<0.000050	0.0012	2.4	0.016	<0.000050	0.00035	0.0023	<0.010
W-309	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	0.0064	<0.000010	<0.000010	<0.0050	0.0000026	13	<0.00010	0.000078	0.00065	0.0034	<0.000050	0.0051	3.3	0.036	0.0000053	0.0046	0.0015	<0.010
W-312	Mine Rock	And. tuf. metaseds	Camp	WSP (2021)	0.0026	<0.000010	<0.000010	0.0053	<0.000020	9.6	<0.00010	0.000068	0.00021	0.0033	<0.000050	0.0022	3.3	0.022	<0.000050	0.0086	0.0060	<0.010
W-314	Mine Rock	TRA	Camp	WSP (2021)	0.013	<0.000010	<0.000010	<0.0050	0.0000107	17	<0.00010	0.000046	0.00026	<0.0020	<0.000050	0.0082	2.4	0.029	0.00001	0.0036	0.0022	<0.010
W-324	Mine Rock	TRA	PORT	WSP (2021)	0.0015	<0.000010	<0.000010	<0.0050	<0.000020	8.8	<0.00010	0.000023	0.00011	<0.0020	<0.000050	0.00055	2.3	0.010	<0.000050	0.00037	0.00070	<0.010
W-325	Mine Rock	TRA	PORT	WSP (2021)	0.18	<0.000010	<0.000010	<0.0050	0.0000035	15	<0.00010	0.000015	0.00028	<0.0020	<0.000050	0.0024	2.5	0.021	<0.000050	0.0046	0.00021	<0.010
M112005	Mine Rock	And. tuf. metaseds	EAST-EXT	WSP (2021)	0.0027	<0.000010	<0.000010	0.0065	<0.000020	8.8	<0.00010	0.000031	0.00039	0.0076	<0.000050	0.0025	1.8	0.014	<0.000010	0.00083	0.00012	<0.010
M112010	Mine Rock	And. tuf. metaseds	EAST-EXT	WSP (2021)	0.0022	<0.000010	<0.000010	0.0066	<0.000020</													

Table B-10. Shake Flask Extraction Results

Parameter	Classification	Final Lithology Group	Zone	Data Source	K	Se	Si	Ag	Na	Sr	S	Te	Ti	Th	Sn	Ti	W	U	V	Zn	Zr
Unit					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
PWQO					-	0.1	-	0.0001	-	-	-	-	-	-	-	-	-	-	0.03	-	-
Interim PWQO					-	-	-	-	-	-	-	-	0.0003	-	-	-	0.03	0.005	0.006	0.02	-
009555	Mine Rock	And tuf. metaseds	PORT	KCC (2020)	4.8	0.00070	0.42	<0.000080	2.0	0.19	12	<0.00020	<0.000050	<0.00010	<0.00050	0.00070	0.00030	0.00010	<0.0010	<0.0010	<0.0010
009573	Ore-Grade Materials	TRA	PORT	KCC (2020)	24	0.012	0.34	<0.000080	6.3	0.42	182	<0.00020	0.00058	<0.00010	<0.00050	<0.00050	<0.00010	0.00032	<0.0010	0.93	0.00040
009587	Ore-Grade Materials	And tuf. metaseds	PORT	KCC (2020)	4.5	0.011	1.1	<0.000080	5.6	0.34	5.7	<0.00020	<0.000050	<0.00010	<0.00050	<0.0005	0.00021	0.00027	<0.0010	0.0080	0.00020
009594	Ore-Grade Materials	VBX	PORT	KCC (2020)	8.7	0.030	1.6	0.00014	1.6	0.67	15	0.00050	<0.000050	<0.00010	<0.00050	0.00090	0.0088	0.0024	0.0030	0.0020	0.0012
009608	Mine Rock	POR	PORT	KCC (2020)	13	0.0025	0.39	<0.000080	2.7	0.19	22	<0.00020	<0.000050	<0.00010	<0.00050	0.00060	0.00057	<0.0010	<0.0010	<0.00010	<0.00010
009626	Ore-Grade Materials	And tuf. metaseds	PORT	KCC (2020)	3.6	0.0023	0.51	<0.000080	1.9	0.22	10	<0.00020	<0.000050	<0.00010	<0.00050	0.00050	0.00018	<0.0010	<0.0010	<0.00010	<0.00010
009668	Mine Rock	TRA	PORT	KCC (2020)	19	0.0034	0.25	0.00013	11	0.50	40	0.0019	0.000070	<0.00010	<0.00050	0.00060	0.037	0.0025	<0.0010	0.012	0.0065
009688	Ore-Grade Materials	And tuf. metaseds	Camp	KCC (2020)	9.0	<0.00050	0.71	<0.000080	0.68	0.041	6.8	<0.00020	<0.000050	<0.00010	<0.00050	0.00060	0.0015	0.000090	0.0030	<0.0010	<0.00010
A00356169	Mine Rock	VBX	EAST-EXT	KCC (2020)	7.6	<0.00050	0.71	<0.000080	0.43	0.072	5.5	<0.00020	<0.000050	<0.00010	<0.00050	<0.0005	0.0029	0.00023	<0.0010	<0.0010	<0.00010
009702	Mine Rock	And tuf. metaseds	Camp	KCC (2020)	7.5	0.00050	0.68	<0.000080	0.61	0.14	3.0	<0.00020	<0.000050	<0.00010	<0.00050	<0.00050	0.0017	0.0011	0.0010	<0.0010	<0.00010
W-003	Ore-Grade Materials	And tuf. metaseds	PORT	WSP (2021)	4.8	0.00081	0.71	<0.000010	0.96	13	12	0.00050	0.000057	<0.000010	0.000059	<0.00020	0.0014	0.0019	0.00064	<0.0010	0.000077
W-006	Ore-Grade Materials	POR	PORT	WSP (2021)	2.8	0.0032	0.64	<0.000010	0.38	0.25	6.0	0.00043	0.00027	<0.000010	0.000079	0.00063	0.0025	0.0029	0.0021	<0.0010	0.00039
W-009	Ore-Grade Materials	POR	PORT	WSP (2021)	4.1	0.0019	1.4	<0.000010	4.0	0.88	7.1	0.00020	0.000020	<0.000010	<0.000050	<0.00020	0.00094	0.0011	0.00054	<0.0010	0.00017
W-014	Ore-Grade Materials	TRA	PORT	WSP (2021)	6.0	0.0037	1.9	0.000018	25	0.57	17	0.0022	0.000035	<0.000010	0.000091	<0.00020	0.023	0.0019	0.00046	0.0010	0.0011
W-022	Ore-Grade Materials	TRA	PORT	WSP (2021)	2.8	0.00070	2.1	<0.000010	2.4	0.35	17	<0.000050	0.000059	0.000070	0.000082	0.0011	0.0015	0.000055	0.00061	0.0014	0.00057
W-028	Ore-Grade Materials	VBX	PORT	WSP (2021)	2.6	0.0014	0.92	0.000057	0.53	0.33	4.8	0.00032	0.000026	0.00011	<0.000050	0.00054	0.0060	0.000091	0.00036	0.0015	0.00052
W-030	Ore-Grade Materials	TRA	PORT	WSP (2021)	3.9	0.0013	0.37	0.000048	0.48	0.33	8.0	0.00023	0.00042	<0.000010	<0.000050	<0.00020	0.00073	0.00091	0.00088	0.0073	0.000045
W-032	Mine Rock	VBX	PORT	WSP (2021)	7.2	0.00081	0.90	0.000013	1.4	0.066	17	<0.000050	0.000066	<0.000010	<0.000050	<0.00020	0.0011	0.00037	0.00098	<0.0010	0.000045
W-033	Mine Rock	And tuf. metaseds	PORT	WSP (2021)	2.9	0.00022	1.3	<0.000010	1.9	0.050	<1.0	0.000083	0.000010	<0.000010	<0.000050	<0.00020	0.00045	0.00000333	0.0012	<0.0010	<0.000020
W-035	Mine Rock	TRA	PORT	WSP (2021)	2.7	0.00031	0.51	0.00013	0.33	0.23	4.6	<0.000050	0.000075	0.000028	0.000062	<0.00020	0.0023	0.00078	0.0016	0.0075	0.00067
W-041	Mine Rock	TRA	PORT	WSP (2021)	7.4	0.00020	1.1	<0.000010	1.3	0.050	<1.0	<0.000050	0.000056	<0.000010	<0.00005	0.00024	<0.00020	0.000024	0.0027	<0.0010	0.00024
W-042	Mine Rock	And tuf. metaseds	Camp	WSP (2021)	3.1	<0.00010	0.68	<0.000010	1.2	0.033	<1.0	<0.000050	0.000030	<0.000010	<0.000050	0.00038	0.0000035	0.00047	<0.0010	<0.000020	<0.000020
W-046	Mine Rock	And tuf. metaseds	PORT	WSP (2021)	3.1	0.00033	1.4	<0.000010	3.3	0.15	1.1	<0.000050	0.000026	<0.000010	0.000051	0.00024	0.0010	0.000033	0.00045	0.0011	0.00032
W-050	Mine Rock	TRA	Camp	WSP (2021)	8.9	0.00019	0.96	<0.000010	1.4	0.066	<1.0	<0.000050	0.000060	0.000026	<0.000050	<0.00020	0.0010	0.000032	0.00069	0.0014	0.000042
W-052	Mine Rock	VBX	Camp	WSP (2021)	8.8	0.00040	0.76	0.000016	1.5	0.13	17	<0.000050	0.000051	<0.000010	<0.000050	<0.00020	0.0017	0.00010	<0.00020	<0.0010	<0.000020
W-053	Mine Rock	VBX	PORT	WSP (2021)	10	0.0010	1.2	0.000042	1.7	1.5	16	<0.000050	0.00012	0.000021	<0.000050	0.00090	0.00086	0.00060	<0.00020	0.0014	0.000067
W-054	Mine Rock	TRA	Camp	WSP (2021)	8.9	0.00093	0.87	0.000013	1.2	0.19	12	<0.000050	0.000046	<0.000010	<0.000050	<0.00020	0.0018	0.00066	0.00023	<0.0010	0.000026
W-055	Ore-Grade Materials	And tuf. metaseds	PORT	WSP (2021)	3.9	0.0016	1.5	0.000023	1.2	0.39	11	<0.000050	0.000050	0.000082	0.000061	0.0032	0.020	0.00033	0.00056	0.011	0.0047
W-059	Mine Rock	And tuf. metaseds	Camp	WSP (2021)	3.3	0.00012	0.74	<0.000010	1.1	0.14	5.0	<0.000050	0.000032	<0.000010	<0.000050	<0.00020	0.0011	0.000017	0.00065	<0.0010	0.000028
W-060	Mine Rock	VBX	Camp	WSP (2021)	10	0.00052	0.82	<0.000010	1.5	0.11	15	<0.000050	0.000058	<0.000010	<0.000050	0.00028	0.00062	0.000052	0.00029	<0.0010	0.00035
W-063	Mine Rock	And tuf. metaseds	Camp	WSP (2021)	3.0	0.00019	0.73	<0.000010	1.1	0.078	2.3	<0.000050	0.000048	<0.000010	<0.000050	<0.00020	0.0012	0.0000088	0.00077	<0.0010	<0.000020
W-065	Mine Rock	VBX	Camp	WSP (2021)	6.1	0.00035	0.64	0.000016	1.6	0.074	17	<0.000050	0.000069	<0.000010	<0.000050	<0.00020	0.00050	0.000054	<0.00020	0.0012	<0.000020
W-067	Mine Rock	VBX	Camp	WSP (2021)	2.5	0.00031	0.82	<0.000010	1.9	0.021	1.0	<0.000050	0.000041	<0.000010	0.000057	<0.00020	0.0038	0.000044	0.00022	<0.0010	0.000028
W-070	Mine Rock	And tuf. metaseds	PORT	WSP (2021)	9.1	0.00061	1.4	<0.000010	2.3	0.15	6.0	<0.000050	0.000056	<0.000010	<0.000050	<0.00020	0.00058	0.00062	0.0026	<0.0010	0.000039
W-072	Mine Rock	TRA	PORT	WSP (2021)	9.4	0.0017	0.73	<0.000010	1.3	3.1	18	<0.000050	0.00055	<0.000010	<0.000050	<0.00020	0.00039	0.0013	<0.00020	0.052	0.000071
W-073	Mine Rock	TRA	Camp	WSP (2021)	8.9	0.00028	0.66	<0.000010	1.5	0.13	15	<0.000050	0.000055	<0.000010	<0.000050	<0.00020	0.00032	0.000044	<0.00020	<0.0010	<0.000020
W-077	Mine Rock	And tuf. metaseds	Camp	WSP (2021)	8.9	0.00013	0.80	<0.000010	1.3	0.060	2.0	0.000052	0.000065	<0.000010	<0.000050	0.00024	0.00035	0.000042	0.00028	<0.0010	<0.000020
W-079	Mine Rock	VBX	Camp	WSP (2021)	11	0.00013	1.0	<0.000010	1.4	0.041	4.7	<0.000050	0.000057	<0.000010	<0.000050	0.00024	0.0010	0.000021	0.00027	<0.0010	<0.000020
W-081	Mine Rock	And tuf. metaseds	Camp	WSP (2021)	8.8	<0.00010	1.7	<0.000010	2.2	0.051	1.6	<0.000050	0.000032	<0.000010	<0.000050	0.00054	0.0015	0.00016	0.0020	<0.0010	0.000068
W-082	Mine Rock	And tuf. metaseds	PORT	WSP (2021)	6.5	<0.00010	1.2	<0.000010	2.1	0.085	1.8	<0.000050	0.000039	<0.000010	<0.000050	<0.00020	0.00045	0.00029	0.0012	<0.0010	0.000045
W-086	Mine Rock	And tuf. metaseds	PORT	WSP (2021)	10	0.0058	1.6	<0.000010	1.5	0.43	9.4	0.000086	0.000059	<0.000010	<0.000050	0.00026	0.0018	0.00030	0.0020	<0.0010	0.00012
W-088	Mine Rock	TRA	PORT	WSP (2021)	6.1	0.0016	1.2	0.000043	12	0.47	15	0.000045	0.000053	0.000017	0.000094	0.00026	0.016	0.0021	0.00053	0.0025	0.0045
W-091	Mine Rock	And tuf. metaseds	PORT	WSP (2021)	5.4	0.00024	0.69	<0.000010	1.7	0.067	2.5	0.000054	0.000031	<0.000010	0.00024	<0.00020	0.00037	0.000014	0.00079	<0.0010	0.000089
W-102	Mine Rock	POR	PORT	WSP (2021)	8.1	<0.00010	1.1	<0.000010	0.81	5.1	5.1	<0.000070	0.000044	<0.000010	0.000062	<0.00020	<0.00020	0.00053	0.00034	<0.0010	0.000072
W-105	Mine Rock	TRA	PORT	WSP (2021)	7.1	0.00029	0.88	0.000035	4.1	0.32	15	<0.000050	0.000046	0.000023	<0.000050	0.0013	0.0019	0.00028	0.00048	0.0020	0.0016
W-112	Mine Rock	And tuf. metaseds	PORT	WSP (2021)	4.6	<0.00010	0.95	<0.000010	1.7	0.084	1.5	<0.000050	0.000020	<0.000010	<0.000050	0.00065	0.00050	0.00012	0.00023	<0.0010	0.00033
W-126	Mine Rock	And tuf. metaseds	PORT	WSP (2021)	5.1	0.00012	0.67	<0.000010	1.3	0.22	15	<0.00005	0.000055	<0.000010	<0.000050	<0.00020	0.00029				

Table B-10. Shake Flask Extraction Results



Parameter	Classification	Final Lithology Group	Zone	Data Source	K	Se	Si	Ag	Na	Sr	S	Te	Ti	Th	Sn	Ti	W	U	V	Zn	Zr
Unit					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
PWQO					-	0.1	-	0.0001	-	-	-	-	-	-	-	-	-	-	-	0.03	-
Interim PWQO					-	-	-	-	-	-	-	-	0.0003	-	-	-	0.03	0.005	0.006	0.02	-
W-171	Ore-Grade Materials	And. tuf. metaseds	PORT	WSP (2021)	11	0.0036	1.1	0.000023	2.3	0.16	23	0.000063	0.00011	<0.000010	0.00022	0.00036	<0.000020	0.000053	<0.000020	0.0038	0.00038
W-173	Mine Rock	VBX	PORT	WSP (2021)	10	0.0045	0.76	0.000046	1.8	0.38	19	0.000085	0.00010	0.000054	<0.000050	0.0019	0.0012	0.0019	0.0019	0.12	0.0094
W-176	Mine Rock	POR	PORT	WSP (2021)	5.3	0.0043	0.72	0.000098	0.90	0.17	3.6	0.00034	0.000028	0.000037	0.000056	<0.000020	0.0095	0.00072	<0.000020	0.0048	0.0055
W-179	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	3.2	0.00066	0.91	0.000012	2.4	0.046	4.6	<0.000050	0.000019	0.000017	<0.000050	<0.000020	0.0022	0.000032	0.00029	<0.0010	0.00058
W-196	Mine Rock	VBX	PORT	WSP (2021)	5.9	0.00017	1.0	<0.000010	2.6	0.36	9.3	<0.000050	0.000038	<0.000010	<0.000050	<0.000020	0.00030	0.00073	0.00063	<0.0010	0.000099
W-199	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	4.4	0.0010	1.4	0.000024	1.2	0.19	5.3	0.000054	0.000038	<0.000010	<0.000050	<0.000020	0.0017	0.000073	0.00067	0.0015	0.00050
W-200	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	3.3	0.00020	1.2	0.000018	1.7	0.042	4.3	0.000062	0.000025	0.000013	0.000070	0.000038	0.00072	0.00027	0.0029	<0.0010	0.0014
W-202	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	4.9	0.00016	1.2	<0.000010	1.3	0.033	1.1	0.000061	0.000034	<0.000010	<0.000050	0.00061	0.00070	0.00020	0.0019	0.00016	0.00033
W-206	Mine Rock	VBX	EAST-EXT	WSP (2021)	8.8	0.00010	1.3	<0.000010	0.27	0.054	1.4	<0.000050	0.000080	<0.000010	<0.000050	<0.000020	0.0052	0.00026	0.00060	0.0044	0.00012
W-207	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	6.6	0.00024	0.90	<0.000010	0.52	0.037	5.2	<0.000050	0.000070	<0.000010	0.000052	<0.000020	0.00078	0.00013	0.00049	<0.0010	<0.000020
W-208	Mine Rock	VBX	EAST-EXT	WSP (2021)	11	0.00021	1.4	<0.000010	0.34	0.046	3.9	<0.000050	0.00013	<0.000010	0.000057	0.00024	0.0018	0.00057	0.0018	<0.0010	0.00062
W-211	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	7.3	<0.00010	1.1	<0.000010	4.5	0.12	6.8	<0.000050	0.000039	<0.000010	<0.000050	<0.000020	0.00095	0.00013	0.0015	<0.0010	0.000023
W-215	Ore-Grade Materials	VBX	PORT	WSP (2021)	8.7	0.00031	1.2	0.000016	3.6	0.16	3.7	<0.000050	0.000065	<0.000010	0.000053	0.00053	0.0016	0.00027	0.00098	<0.0010	0.000024
W-217	Mine Rock	TRA	PORT	WSP (2021)	10	0.00021	1.4	<0.000010	0.83	0.18	13	<0.000050	0.000056	<0.000010	0.000057	<0.000020	0.0014	0.00032	0.00076	<0.0010	0.000071
W-220	Mine Rock	And. tuf. metaseds	Camp	WSP (2021)	7.1	<0.00010	0.77	<0.000010	1.2	0.037	19	<0.000050	0.000072	<0.000010	<0.000050	<0.000020	0.00027	0.00060	0.00022	<0.0010	0.000024
W-221	Mine Rock	POR	PORT	WSP (2021)	9.4	0.0014	1.5	<0.000010	1.0	0.82	5.3	0.000069	0.000093	<0.000010	0.000067	<0.000020	0.00098	0.00025	0.00068	0.0021	0.00021
W-222	Mine Rock	And. tuf. metaseds	Camp	WSP (2021)	2.4	0.00013	1.0	<0.000010	1.2	0.051	<1.0	<0.000050	0.000021	<0.000010	<0.000050	<0.000020	0.0000082	0.0012	<0.0010	0.000032	
W-233	Mine Rock	TRA	PORT	WSP (2021)	7.2	0.00068	1.8	0.000010	1.4	2.7	4.3	0.000094	0.000039	0.000020	0.000062	0.00021	0.00081	0.0016	0.00092	<0.0010	0.0011
W-234	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	4.5	0.00028	1.2	<0.000010	3.9	0.059	<1.0	<0.000050	0.000032	<0.000010	0.000064	<0.000020	0.0019	0.00031	0.0016	<0.0010	0.00024
W-237	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	3.1	0.00016	1.1	<0.000010	2.4	0.082	4.1	<0.000050	0.000018	<0.000010	0.000056	<0.000020	0.00044	0.000044	0.0012	<0.0010	0.000093
W-241	Mine Rock	TRA	EAST-EXT	WSP (2021)	10	<0.00010	1.5	<0.000010	1.3	0.055	<1.0	<0.000050	0.000074	<0.000010	<0.000050	0.00043	0.00087	0.00064	0.0014	0.0052	0.000034
W-243	Mine Rock	TRA	EAST-EXT	WSP (2021)	11	<0.00010	1.7	<0.000010	1.2	0.076	<1.0	<0.000050	0.00010	<0.000010	0.000053	0.00091	0.0010	0.000078	0.0025	<0.0010	0.00010
W-245	Mine Rock	TRA	EAST-EXT	WSP (2021)	8.6	<0.00010	1.2	<0.000010	0.53	0.086	<1.0	<0.000050	0.000055	<0.000010	0.000051	0.00049	0.00059	0.00014	0.0014	<0.0010	0.00014
W-253	Ore-Grade Materials	And. tuf. metaseds	Camp	WSP (2021)	7.1	0.00025	1.2	0.000025	1.7	0.100	11	<0.000050	0.000040	<0.000010	<0.000050	0.00022	0.00055	0.00047	0.0014	<0.0010	0.000065
W-261	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	1.9	<0.00010	1.1	<0.000050	0.97	0.017	<1.0	<0.000050	0.000090	<0.000010	0.000060	<0.000020	0.00021	0.0000099	0.0011	<0.0010	0.00013
W-263	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	7.8	<0.00010	1.1	<0.000010	2.1	0.19	16	<0.000050	0.000046	<0.000010	0.000062	0.00033	0.00042	0.00022	0.00094	<0.0010	0.000093
W-266	Ore-Grade Materials	TRA	PORT	WSP (2021)	4.9	0.0015	1.8	0.000037	3.0	0.38	7.2	0.00022	<0.000040	<0.000010	0.000056	<0.000020	0.0065	0.0024	0.0013	<0.0010	0.000054
W-267	Mine Rock	TRA	PORT	WSP (2021)	3.8	0.00011	1.2	<0.000010	1.1	0.100	1.4	<0.000050	0.000032	<0.000010	<0.000050	<0.000020	0.00037	0.00012	0.00088	<0.0010	0.00020
W-272	Mine Rock	TRA	PORT	WSP (2021)	9.3	0.016	1.1	0.000063	0.56	0.99	14	0.00057	0.000047	<0.000010	<0.000050	<0.000020	0.00040	0.00068	<0.00020	0.0017	<0.000020
W-278	Mine Rock	TRA	PORT	WSP (2021)	4.9	0.0010	1.0	0.000026	2.9	0.039	9.9	<0.000050	0.000048	<0.000010	<0.000050	<0.000020	0.00063	0.000049	0.00083	<0.0010	<0.000020
W-280	Mine Rock	TRA	PORT	WSP (2021)	4.4	0.00034	0.88	<0.000010	3.6	0.070	9.1	0.000053	0.000026	<0.000010	<0.000050	<0.000020	0.00074	0.000029	0.00049	<0.0010	0.000036
W-283	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	3.5	0.00015	0.83	<0.000010	1.7	0.047	2.2	<0.000050	0.000017	<0.000010	<0.000050	<0.000020	0.00029	0.0000040	0.00050	<0.0010	<0.000020
W-290	Mine Rock	TRA	PORT	WSP (2021)	5.6	0.00030	1.1	<0.000010	1.8	0.12	1.3	<0.000050	0.000037	<0.000010	<0.000050	<0.000020	0.0011	0.000064	0.00070	<0.0010	<0.000020
W-299	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	3.5	0.0011	0.92	0.000018	2.1	0.14	12	0.000056	0.000022	<0.000010	<0.000050	<0.000020	0.00033	0.00048	0.00030	<0.0010	<0.000020
W-301	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	5.8	0.00023	0.85	<0.000010	1.4	0.069	4.0	<0.000050	0.000044	<0.000010	<0.000050	<0.000020	0.00067	0.00070	0.00057	<0.0010	0.00013
W-306	Mine Rock	And. tuf. metaseds	Camp	WSP (2021)	4.4	<0.00010	1.1	<0.000010	1.7	0.041	<1.0	0.000060	0.000032	<0.000010	<0.000050	<0.000020	0.00069	0.0000058	0.00063	<0.0010	<0.000020
W-308	Mine Rock	And. tuf. metaseds	Camp	WSP (2021)	7.4	<0.00010	0.97	<0.000010	1.4	0.072	1.9	<0.000050	0.000032	<0.000010	<0.000050	<0.000020	0.0010	0.000023	0.00055	<0.0010	<0.000020
W-309	Mine Rock	And. tuf. metaseds	PORT	WSP (2021)	5.9	0.00028	0.94	0.000017	0.90	0.079	7.9	0.00011	0.000042	<0.000010	<0.000050	<0.000020	0.0054	0.00097	0.00076	<0.0010	0.00011
W-312	Mine Rock	And. tuf. metaseds	Camp	WSP (2021)	7.9	0.00065	0.89	0.000015	1.1	0.084	6.5	<0.000050	0.00012	<0.000010	<0.000050	<0.000020	0.0034	0.000045	0.00046	<0.0010	<0.000020
W-314	Mine Rock	TRA	Camp	WSP (2021)	9.3	0.0013	1.5	0.000014	0.71	0.12	16	0.000057	0.00014	<0.000010	<0.000050	<0.000020	0.00074	0.00012	0.0011	<0.0010	<0.000020
W-324	Mine Rock	TRA	PORT	WSP (2021)	3.6	0.00032	0.95	<0.000010	1.5	0.061	1.9	<0.000050	0.000054	<0.000010	<0.000050	<0.000020	0.0014	0.000042	0.00066	<0.0010	<0.000020
W-325	Mine Rock	TRA	PORT	WSP (2021)	7.3	0.0047	1.5	<0.000010	2.1	1.9	11	0.00038	0.000050	<0.000010	<0.000050	<0.000020	0.0012	0.00058	0.0017	<0.0010	<0.000020
M112005	Mine Rock	And. tuf. metaseds	EAST-EXT	WSP (2021)	9.0	0.00010	0.88	0.000010	0.70	0.039	<1.0	<0.000050	0.000097	<0.000010	0.000056	0.00029	0.00098	0.00012	0.00030	<0.0010	0.000085
M112010	Mine Rock	And. tuf. metaseds	EAST-EXT	WSP (2021)	9.1	0.00014	0.88	<0.000010	0.44	0.032	2.3	<0.000050	0.000083	<0.000010	0.000052	0.00028	0.00071	0.000070	<0.0002	<0.0010	0.00017
M112016	Mine Rock	VBX	EAST-EXT	WSP (2021)	8.6	<0.00010	0.98	<0.000010	0.53	0.028	<1.0	<0.000050	0.000087	<0.000010	<0.000050	0.00024	0.00076	0.000028	0.00046	<0.0010	0.00014
M112031	Ore-Grade Materials	TRA	EAST-EXT	WSP (2021)	5.5	0.0018	0.86	<0.000010	0.57	0.12	3.6	<0.000050	0.000056	<0.000010	<0.000050	<0.000020	0.00031	0.00035	0.00044	<0.0010	0.00012
M112065	Mine Rock	And. tuf. metaseds	EAST-EXT	WSP (2021)	6.9	0.00076	0.70</														

Table B-11. NAG Extract Results



Parameter	Unit	Sample ID										Sample ID								Sample ID							
Sample ID		009555	009573	009587	009594	009608	009626	009668	009688	A00356169	009702	W-009	W-014	W-022	W-030	W-046	W-053	W-055	W-072	W-088	W-105	W-139	W-150	W-173	W-180	W-266	
Data Source		KCC (2020)										WSP (2021)								WSP (2021)							
Weight of pulp sample used	g	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
Volume of 15% H ₂ O ₂ used	mL	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	
pH	pH units	7.6	2.2	2.8	2.4	3.1	7.6	7.6	7.6	7.6	7.9	2.8	2.2	2.5	2.3	3.8	2.4	2.5	2.9	2.4	2.6	2.6	2.8	2.4	3.3	2.5	
EC	mV	189	5440	1713	3400	1610	175	262	407	259	104	1069	3450	1600	2270	289	2220	1692	866	2210	1283	2570	1115	2000	313	1890	
Acidity (to pH 8.3)	mg CaCO ₃ /L	8.0	1315	403	758	206	7.5	5.0	5.0	5.0	5.8	369	760	340	517	69	501	375	225	479	294	403	226	462	94	397	
Total Alkalinity (to pH 4.5)	mg CaCO ₃ /L	38	<0.50	<0.50	<0.50	<0.50	41	38	35	36	37	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
Sulphate	mg/L	49	1009	364	675	685	34	69	145	80	32	326	618	262	412	86	498	298	231	447	284	1084	260	402	81	373	
Chloride	mg/L	0.62	0.35	0.11	0.050	0.050	0.16	0.15	0.30	0.24	0.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Fluoride	mg/L	0.030	0.95	0.43	2.2	0.76	0.050	2.1	0.070	0.060	0.040	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Total Dissolved Solids (TDS)	mg/L	110	1300	575	788	910	110	185	285	172	108	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Phosphorous (IC)	mg/L	--	--	--	--	--	--	--	--	--	--	<0.0050	0.015	0.12	0.0066	0.035	0.0082	<0.0050	0.0085	0.026	0.026	<0.0050	0.026	0.28	<0.0050	0.017	
Hardness (CaCO ₃)	mg/L	67	225	118	197	493	60	100	159	99	60	62	58	31	19	54	105	30	111	68	39	828	71	78	28	102	
Aluminum	mg/L	0.14	13	7.6	12	2.1	0.013	0.11	0.087	0.11	0.067	3.6	5.1	8.4	9.0	1.5	9.0	7.7	10	7.2	7.1	4.4	6.5	8.4	3.5	5.9	
Antimony	mg/L	0.015	0.0024	<0.00010	<0.00010	<0.00010	0.0035	0.0022	0.0062	0.0085	0.010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00010	<0.00090	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
Arsenic	mg/L	0.0033	0.0092	0.0011	0.0028	0.0011	0.00070	0.0020	0.015	0.0079	0.0023	0.0013	0.0017	0.0011	0.0046	<0.00020	0.00060	0.00090	0.0022	0.0027	0.0011	0.0043	0.0018	<0.00020	0.0014	0.0012	
Barium	mg/L	0.049	0.10	0.095	0.082	0.097	0.0056	0.0060	0.0026	0.015	0.016	0.18	0.071	0.17	0.17	0.020	0.11	0.20	0.072	0.13	0.12	0.071	0.26	0.14	0.38	0.14	
Beryllium	mg/L	<0.00010	0.0022	0.0074	0.0033	0.0019	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.0042	0.0043	0.0030	0.00090	0.0015	0.0016	0.0016	0.0019	0.0043	0.0026	0.0010	0.0028	0.0030	0.0018	0.0074	
Bismuth	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
Boron	mg/L	0.020	0.10	0.14	0.070	0.080	0.040	0.020	0.090	0.010	0.020	0.030	0.060	0.020	<0.010	<0.010	0.010	0.050	0.030	<0.0100	0.020	0.010	0.010	<0.010	<0.010	0.16	
Cadmium	mg/L	0.000060	0.0060	0.14	0.0023	0.0033	0.000010	0.000090	0.000010	0.000030	0.000070	0.0023	0.0021	0.00020	0.0029	0.00094	0.0014	0.00017	0.012	0.0018	0.0012	0.048	0.0020	0.0053	0.0035	0.0017	
Calcium	mg/L	23	81	35	54	113	16	38	61	31	16	17	16	8.4	4.5	15	24	7.4	40	18	8.7	224	12	25	8.9	29	
Chromium	mg/L	0.0082	0.19	0.036	0.077	0.0046	0.012	0.0038	0.011	0.0076	0.010	0.0092	0.040	0.0050	0.016	0.0049	0.0096	0.0067	0.011	0.016	0.011	0.011	0.0031	0.026	0.010	0.015	
Cobalt	mg/L	0.00050	0.22	0.13	0.19	0.18	<0.00010	<0.00010	<0.00010	0.00020	<0.00010	0.31	0.17	0.37	0.11	0.079	0.16	0.23	0.068	0.24	0.29	0.21	0.27	0.13	0.034	0.28	
Copper	mg/L	0.00090	0.58	1.4	0.55	0.34	<0.00050	0.0033	<0.00050	0.0012	<0.00050	0.55	1.6	0.60	0.57	0.26	0.33	1.4	0.26	0.76	0.45	0.23	0.95	2.3	0.080	1.7	
Iron	mg/L	<0.020	93	16	44	17	0.24	0.24	0.12	0.060	0.050	84	69	4.4	25	0.060	23	12	4.0	30	15	27	5.5	35	0.27	19	
Lead	mg/L	0.0008	0.027	0.15	0.067	0.92	<0.00050	0.0012	<0.00050	0.00060	0.00060	0.024	0.20	0.0073	0.010	0.0010	0.23	0.016	1.9	0.17	0.020	3.1	0.028	0.28	0.060	0.053	
Lithium	mg/L	0.0027	0.048	0.012	0.14	0.032	0.0017	0.015	0.010	0.0024	0.0070	0.056	0.075	0.043	0.0075	0.0067	0.015	0.023	0.016	0.054	0.052	0.0067	0.091	0.037	0.0047	0.19	
Magnesium	mg/L	2.3	5.4	7.7	15	51	5.1	1.0	1.6	4.9	5.1	5.0	4.1	2.5	1.8	4.3	11	2.9	2.9	5.9	4.3	65	9.8	4.0	1.5	7.3	
Manganese	mg/L	0.052	4.6	0.40	3.8	12	0.097	0.060	0.011	0.042	0.021	41	0.21	0.041	0.087	9.4	4.0	0.12	4.2	0.26	12	14	8.1	0.39	0.86	13	
Mercury	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00010	<0.00010	<0.00010	<0.00010	0.00002	0.00004	0.00001	<0.000010	<0.000010	<0.000010	<0.000060	<0.000010	<0.000010	<0.000010	<0.000010	
Molybdenum	mg/L	0.14	0.0056	0.0018	0.00090	0.00030	0.079	0.12	0.053	0.32	0.21	0.00010	0.00080	0.00020	0.0017	0.035	0.00050	0.00030	0.010	0.0036	0.00010	0.00010	0.00010	0.024	0.020	0.00030	
Nickel	mg/L	0.00060	0.20	0.14	0.16	0.15	<0.00050	0.0006	0.00060	<0.00050	<0.00050	0.12	0.13	0.085	0.088	0.044	0.11	0.087	0.066	0.13	0.15	0.13	0.040	0.078	0.028	0.076	
Phosphorous	mg/L	0.090	0.080	0.15	0.61	0.060	0.060	0.10	0.090	0.060	<0.05000	<0.050	<0.050	0.15	<0.050	0.10	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.26	0.060	<0.050	
Potassium	mg/L	7.4	16	3.2	18	11	2.5	5.0	12	5.1	9.3	11	8.1	14	12	2.9	15	11	10	17	18	8.8	38	17	5.5	16	
Selenium	mg/L	0.0018	0.021	0.0051	0.030	0.028	0.0023	0.017	0.0020	0.0011	0.0011	0.024	0.030	0.0052	0.013	0.0019	0.0065	0.011	0.013	0.010	0.0035	0.037	0.012	0.013	0.0094	0.020	
Silicon	mg/L	2.0	15	13	17	6.1	3.0	1.9	2.5	1.5	2.6	7.4	8.4	8.8	6.5	5.9	7.7	6.8	12	9.2	7.7	5.4	9.1	6.7	5.3	11	
Silver	mg/L	<0.000080	0.034	0.0058	0.0085	0.0023	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	0.0084	0.022	0.0044	0.0056	0.0016	0.0050	0.011	0.00097	0.010	0.0021	0.0039	0.0054	0.0075	0.0035	0.024	
Sodium	mg/L	4.4	4.5	6.1	5.4	4.0	4.7	4.4	5.0	3.6	4.1	3.5	6.3	2.8	2.9	3.6	3.6	3.0	3.3	4.3	4.1	3.8	4.1	3.6	2.9	3.3	
Strontium	mg/L	0.23	0.13	0.40	0.34	0.60	0.11	0.88	0.14	0.22	0.28	0.39	0.44	0.11	0.75	0.17	1.4	0.076	2.9	0.54	0.11	2.4	0.071	0.21	1.2	0.42	
Sulphur	mg/L	14	306	107	209	181	10	20	42	23	8.1	122	219	90	133	29	156	96	69	142	89	370	90	139	27	133	
Tellurium	mg/L	<0.00020	0.023	0.0036	0.0097	0.00080	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.0048	0.038	0.0038	0.022	<0.00020	0.0054	0.010	0.0011	0.011	0.00070	0.0027	0.0052	0.0096	0.0010	0.012	
Thallium	mg/L	0.00012	0.0016	0.00019	0.0011	0.00041	<0.00005	0.000050	0.00012	0.000070	0.00016	0.0011	0.00067	0.0029	0.0013	0.00014	0.0014	0.0									

Appendix C

Mineralogical Testing Results

Table C-1. R-XRD Results



Lithology Group			Andesite, Tuff, and Metasediments										
Classification			Ore-Grade Materials			Mine Rock							
Zone			Portage		Camp	Portage						Camp	
Sample ID			009587	009626	009688	W-046	W-091	W-211	W-234	W-263	009555	W-063	009702
Drillhole			SP12-151	SP12-154	SP11-030	SP12-151	SP12-129	PM-DH-04	SP11-050	SP12-174	SP12-115	SP12-136	BL-0287
Depth (m)			86.5-88.5	21-23	41-42	98.5 - 100.5	189 - 191.1	150 - 151	51 - 52	204 - 206	195.1-196.1	54 - 56	62.3-76.2
Sulphides	Pyrite	FeS ₂	4.1	4.9	6.9	1.0	1.7	4.7	0.5	1.8	8.9	--	1.8
Sulphates	Gypsum	CaSO ₄ 2H ₂ O	--	--	--	--	--	--	--	--	--	--	--
Carbonates	Ankerite-Dolomite	Ca(Fe ²⁺ ,Mg,Mn)(CO ₃) ₂ -CaMg(CO ₃) ₂	--	--	--	--	2.0	2.7	8.9	--	--	0.8	--
	Dolomite	CaMg(CO ₃) ₂	--	18.3	7.6	--	--	--	--	--	9.1	--	8.9
	Calcite, magnesian	(Ca,Mg)CO ₃	0.6	--	9.6	--	14.6	--	13.4	8.2	5.5	18.3	6.9
	Calcite	CaCO ₃	--	0.3	--	--	--	7.7	--	--	--	--	--
	Siderite	Fe ²⁺ CO ₃	--	--	--	2.1	0.4	0.2	--	0.2	--	--	--
	Siderite, calcian	(Fe,Ca,Mg)CO ₃	--	--	--	--	--	--	--	--	0.3	--	--
Feldspar	K-Feldspar (Microcline)	KAlSi ₃ O ₈	--	--	9	--	--	10	--	--	22	--	47
	Plagioclase (Albite)	NaAlSi ₃ O ₈ – CaAl ₂ Si ₂ O ₈	40.5	36.3	4.4	36.0	20.1	36.6	33.7	36.2	21.6	19.4	5.9
Phyllosilicates	Biotite	K(Mg,Fe ²⁺) ₃ AlSi ₃ O ₁₀ (OH) ₂	--	--	--	--	4	7	2	6	--	--	--
	Illite/Muscovite 2M1	K _{0.65} Al _{2.0} Al _{0.65} Si _{3.35} O ₁₀ (OH) ₂ - KAl ₂ AlSi ₃ O ₁₀ (OH) ₂	34	23	32	34	23	17	7	11	13	19	15
	Clinocllore	(Mg,Fe ²⁺) ₅ Al(Si ₃ Al)O ₁₀ (OH) ₈	8.3	--	--	13.2	16.0	--	14.2	12.0	--	17.2	--
	Kaolinite	Al ₂ Si ₂ O ₅ (OH) ₄	2.0	0.7	--	--	--	--	--	--	--	--	--
	Phlogopite 1M	KMg ₃ AlSi ₃ O ₁₀ (OH) ₂	--	--	8.9	--	--	--	--	--	4.8	--	5.8
Oxides	Quartz	SiO ₂	8.5	13.0	19.1	12.7	17.9	11.2	14.3	19.2	14.8	21.7	8.2
	Magnetite	Fe ²⁺ Fe ³⁺ ₂ O ₄	0.4	1.8	1.7	0.5	--	2.3	4.8	2.8	--	0.6	--
	Ilmenite	Fe ²⁺ TiO ₃	--	0.6	0.8	--	0.9	--	--	2.8	--	3.1	0.6
Halides	Rutile	TiO ₂	1.2	0.7	0.5	0.9	--	--	1.1	--	--	--	--
	Fluorite	CaF ₂	--	--	--	--	--	--	--	--	--	--	--
	Halite	NaCl	--	--	--	--	--	--	--	--	--	--	--
Total			100	100	100	100	100	100	100	100	100	100	100

Table C-1. R-XRD Results



Lithology Group			Trachyte								Volcanic Breccia				Porphyry	
Classification			Ore-Grade Materials			Mine Rock				Ore-Grade Materials	Mine Rock			Mine Rock		
Zone			Portage						Camp	Portage		East Extension		Portage		
Sample ID			W-014	W-266	009573	W-041	W-072	W-217	009668	W-312	009594	W-139	W-206	A003561 69	W-221	009608
Drillhole			PM-DH-03	SM20-003	SP12-142	SM20-002	SP12-123	SG13-206	SP12-162B	SP12-001	SP12-171	SP12-113	SP11-067	SP11-067	SP12-183	SP12-183
Depth (m)			245 - 246	298 - 299	41-43	13 - 14	303 - 305	249 - 251	346-348	20 - 21	271-273	150 - 151	20 - 21	23-25	97 - 99	130-132
Sulphides	Pyrite	FeS ₂	13	6.6	10.4	0.3	1.9	6.9	9.5	0.9	8.5	12	0.6	5.0	2.1	8.1
Sulphates	Gypsum	CaSO ₄ 2H ₂ O	--	--	0.8	--	--	--	--	--	--	--	--	--	--	--
Carbonates	Ankerite-Dolomite	Ca(Fe ²⁺ ,Mg,Mn)(CO ₃) ₂ -CaMg(CO ₃) ₂	--	--	--	19.5	--	5.0	--	16.4	--	11.5	9.7	--	2.1	--
	Dolomite	CaMg(CO3)2	--	--	--	--	--	--	0.7	--	1.1	--	--	5.7	--	7.2
	Calcite, magnesian	(Ca,Mg)CO ₃	--	--	2.7	--	--	4.6	7.4	--	0.8	0.9	7.0	7.1	5.4	0.4
	Calcite	CaCO ₃	--	0.8	--	--	--	--	--	--	--	--	--	--	--	--
	Siderite	Fe ²⁺ CO ₃	--	1.2	--	0.3	0.6	--	--	--	--	0.4	--	--	--	--
	Siderite, calcian	(Fe,Ca,Mg)CO ₃	--	--	--	--	--	--	--	--	0.3	--	--	0.4	--	0.6
Feldspar	K-Feldspar (Microcline)	KAlSi ₃ O ₈	23	3	40	6	61	34	46	--	22	45	44	50	54	12
	Plagioclase (Albite)	NaAlSi ₃ O ₈ – CaAl ₂ Si ₂ O ₈	5.3	17.1	--	33.5	10.5	5.8	3.8	17.9	18.0	14.0	1.1	--	8.6	8.7
Phyllosilicates	Biotite	K(Mg,Fe ²⁺) ₃ AlSi ₃ O ₁₀ (OH) ₂	20	26	--	13	4	4	--	9	--	2	4	--	4	--
	Illite/Muscovite 2M1	K _{0.65} Al _{2.0} Al _{0.65} Si _{3.35} O ₁₀ (OH) ₂ - KAl ₂ AlSi ₃ O ₁₀ (OH) ₂	30	18	26	13	17	14	11	34	31	7	16	16	18	37
	Clinochlore	(Mg,Fe ²⁺) ₅ Al(Si ₃ Al)O ₁₀ (OH) ₈	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Kaolinite	Al ₂ Si ₂ O ₅ (OH) ₄	--	--	0.8	0.3	--	--	--	--	--	--	--	--	--	--
	Phlogopite 1M	KMg ₃ AlSi ₃ O ₁₀ (OH) ₂	--	--	5.8	--	--	--	13.4	--	14.3	--	--	2.1	--	15.3
Oxides	Quartz	SiO ₂	7.2	19.0	12.0	11.7	3.7	25.1	2.5	21.0	3.3	6.3	14.2	11.5	5.9	9.9
	Magnetite	Fe ²⁺ Fe ³⁺ ₂ O ₄	--	6.1	--	2.6	--	--	--	--	--	--	1.7	--	--	--
	Ilmenite	Fe ²⁺ TiO ₃	--	--	--	--	--	--	--	1.2	--	--	1.3	1.4	--	--
	Rutile	TiO ₂	1.6	2.4	1.3	--	--	--	--	--	0.9	1.0	--	--	--	0.5
Halides	Fluorite	CaF ₂	--	--	--	--	1.6	--	5.6	--	--	--	--	--	--	--
	Halite	NaCl	--	--	--	--	--	--	--	--	--	--	--	--	--	0.5
Total			100	100	100	100	100	100	100	100	100	100	100	100	100	100

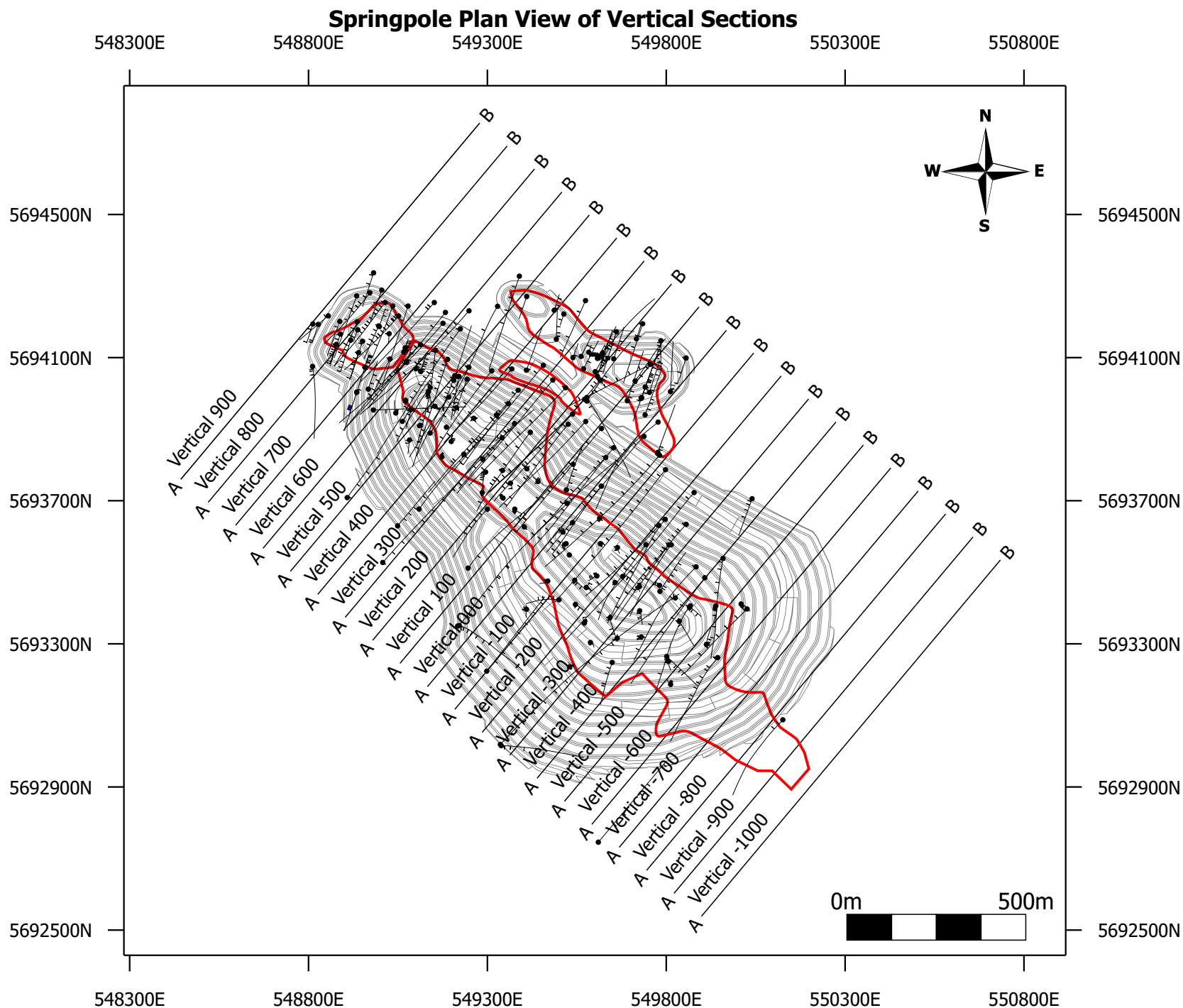
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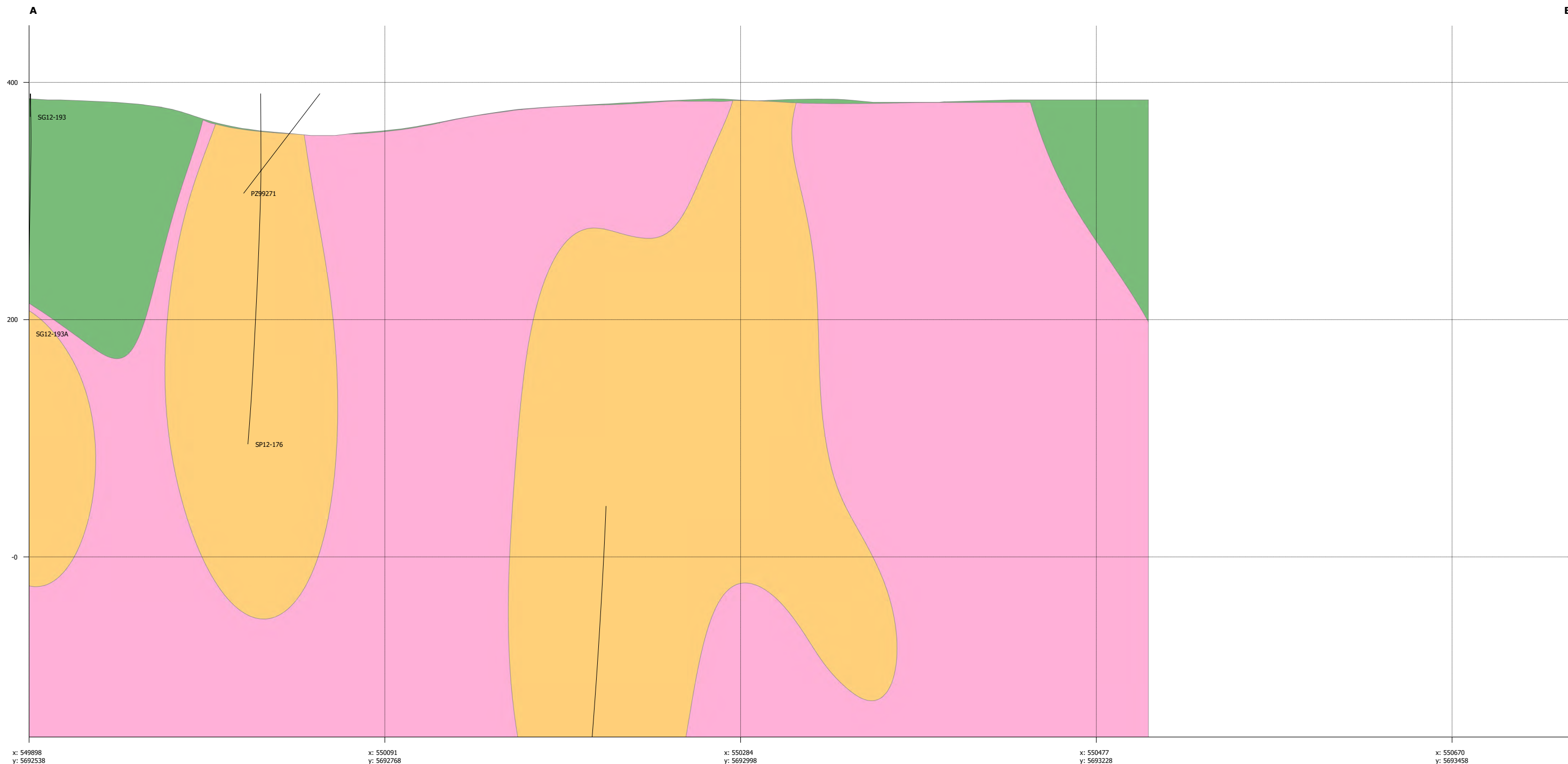
Cross Sections



Legend

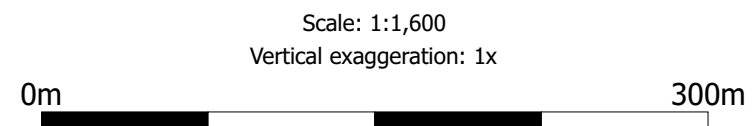
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- Resource Outline
- Vertical Section
- Geochemical Sample Drillholes
- Sample Locations





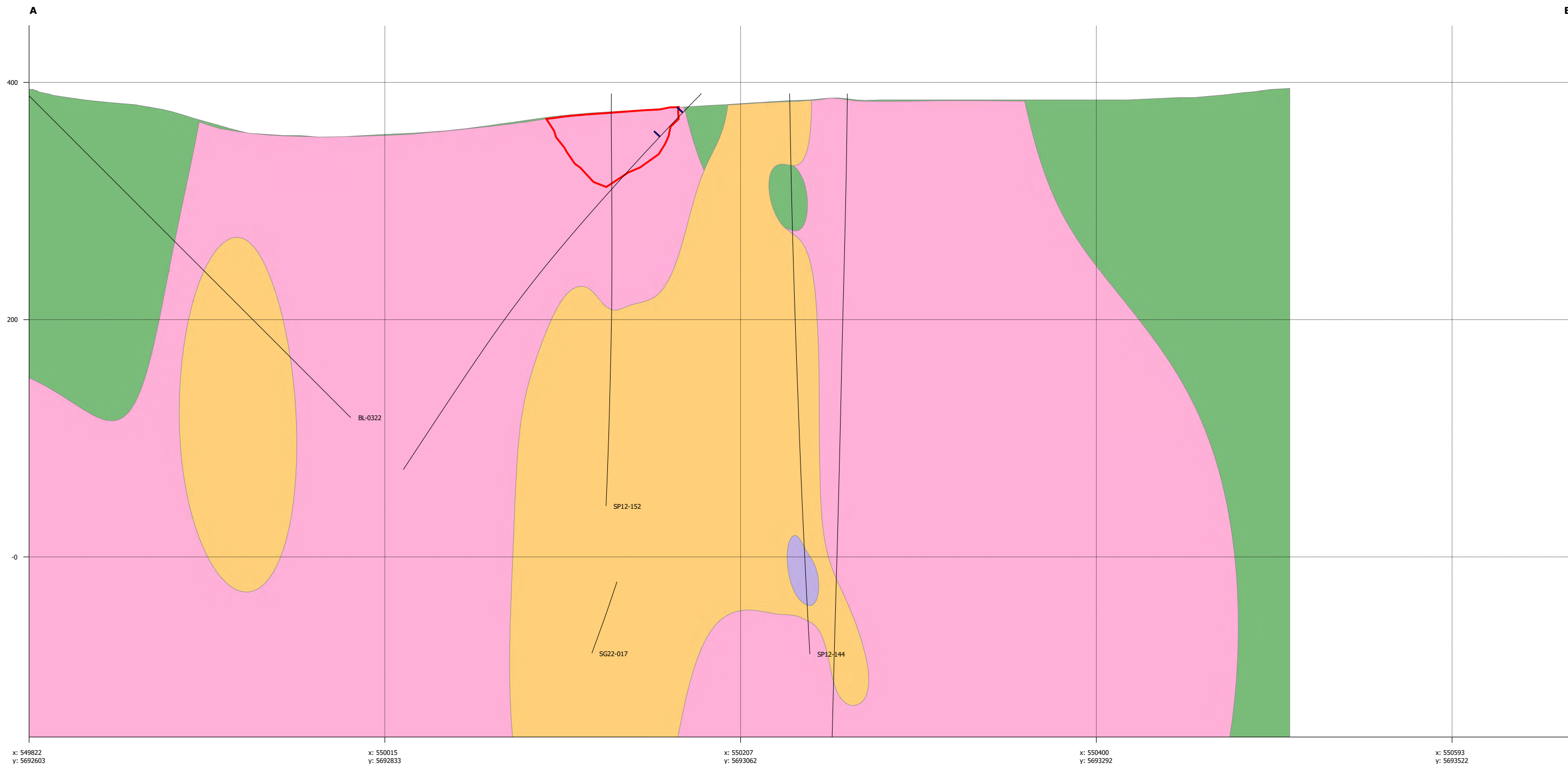
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|-----------------------------|------------------------------|-------------------------------------|
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| — Proposed PFS Pit | ■ And_Tuff_Mseds | ■ Mine Rock |
| — Resource Outline | ■ Tra | ■ Ore-Grade |
| | ■ Vbx | |



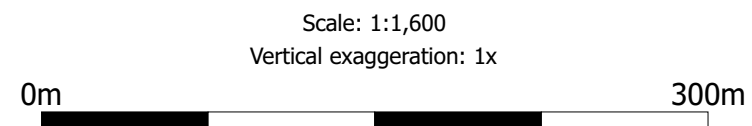
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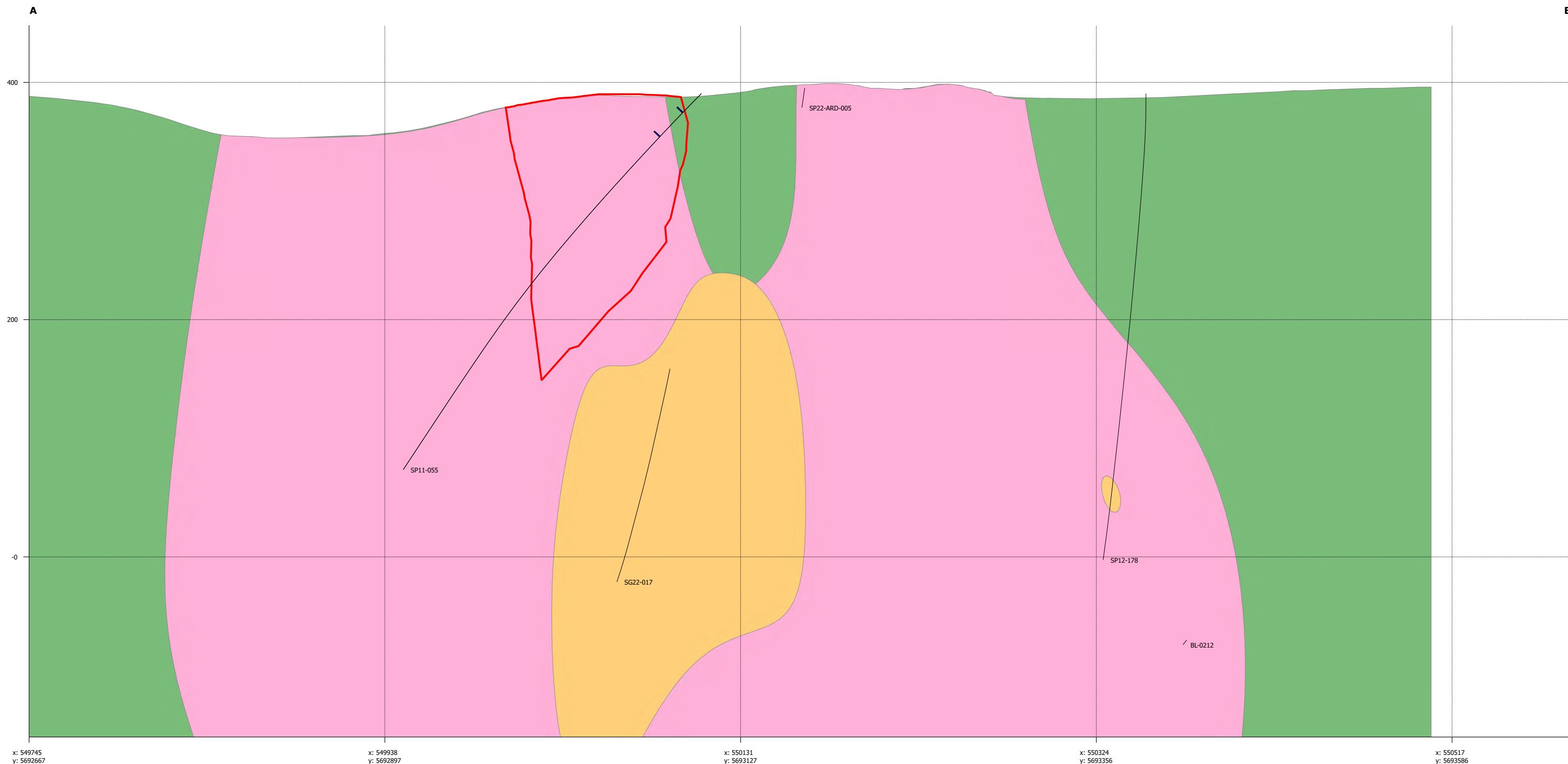


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| — Proposed PFS Pit | ■ And_Tuff_Mseds | ■ Mine Rock |
| — Resource Outline | ■ Por | ■ Ore-Grade |
| | ■ Tra | |
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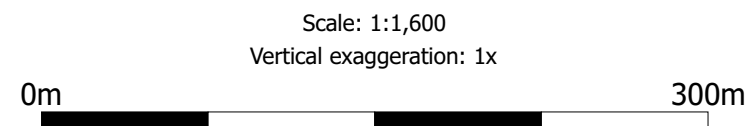


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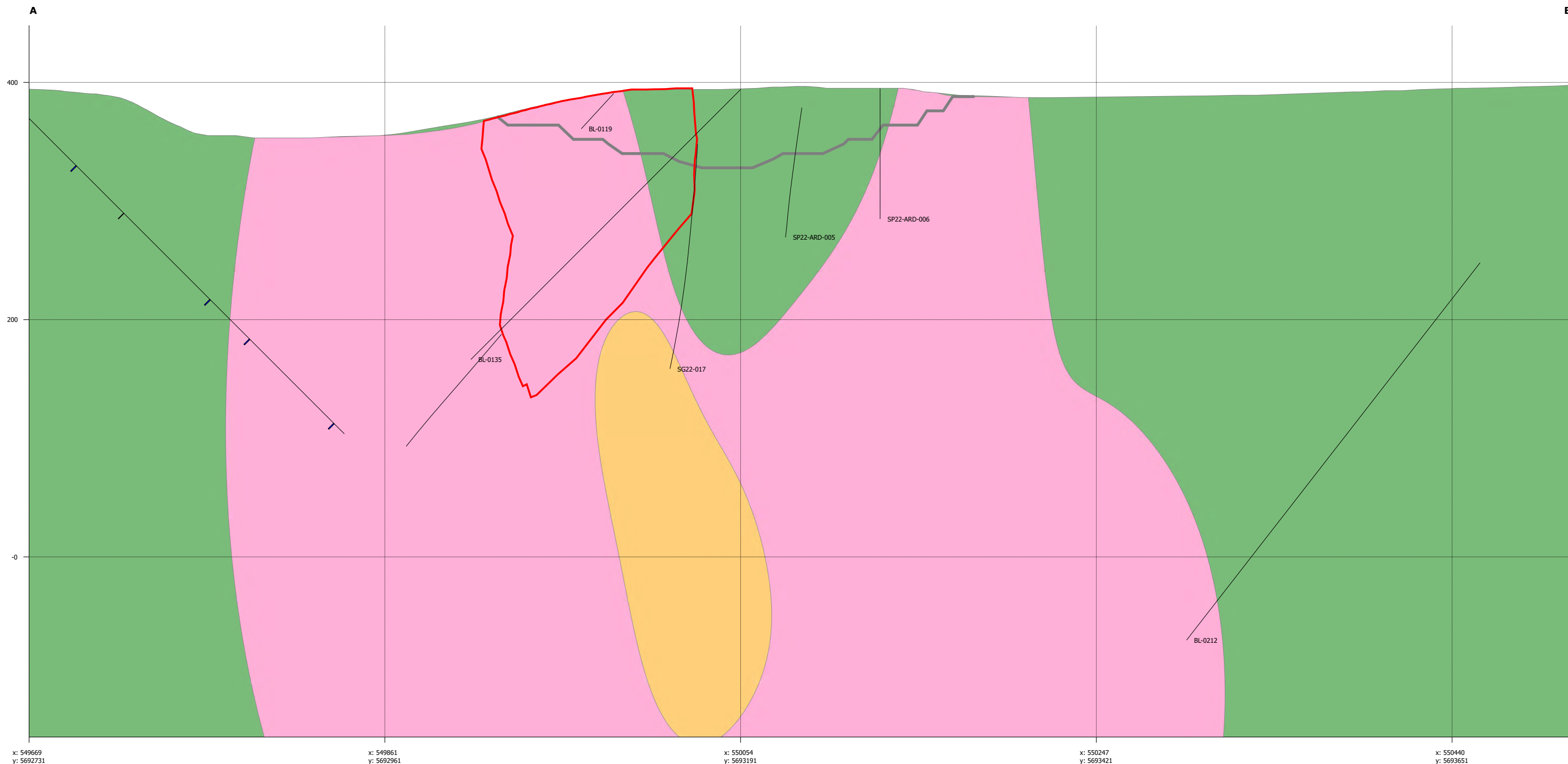


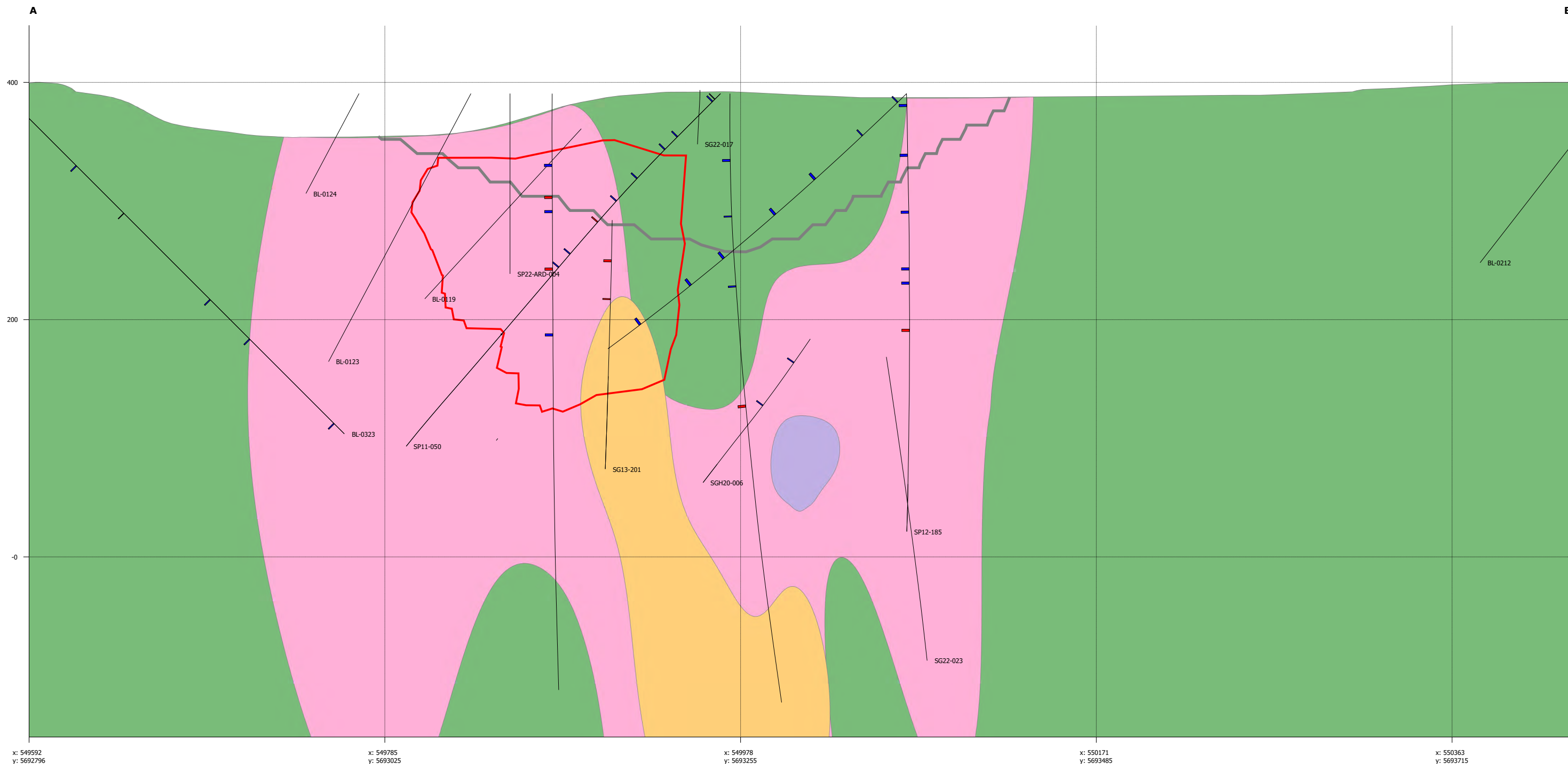
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|-----------------------------|------------------------------|-------------------------------------|
| PFS Resource Outline | Geological Model 2018 | Geochemical Sample Locations |
| — Proposed PFS Pit | ■ And_Tuff_Mseds | ■ Mine Rock |
| — Resource Outline | ■ Tra | ■ Ore-Grade |
| | ■ Vbx | |



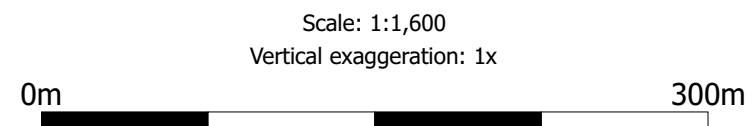
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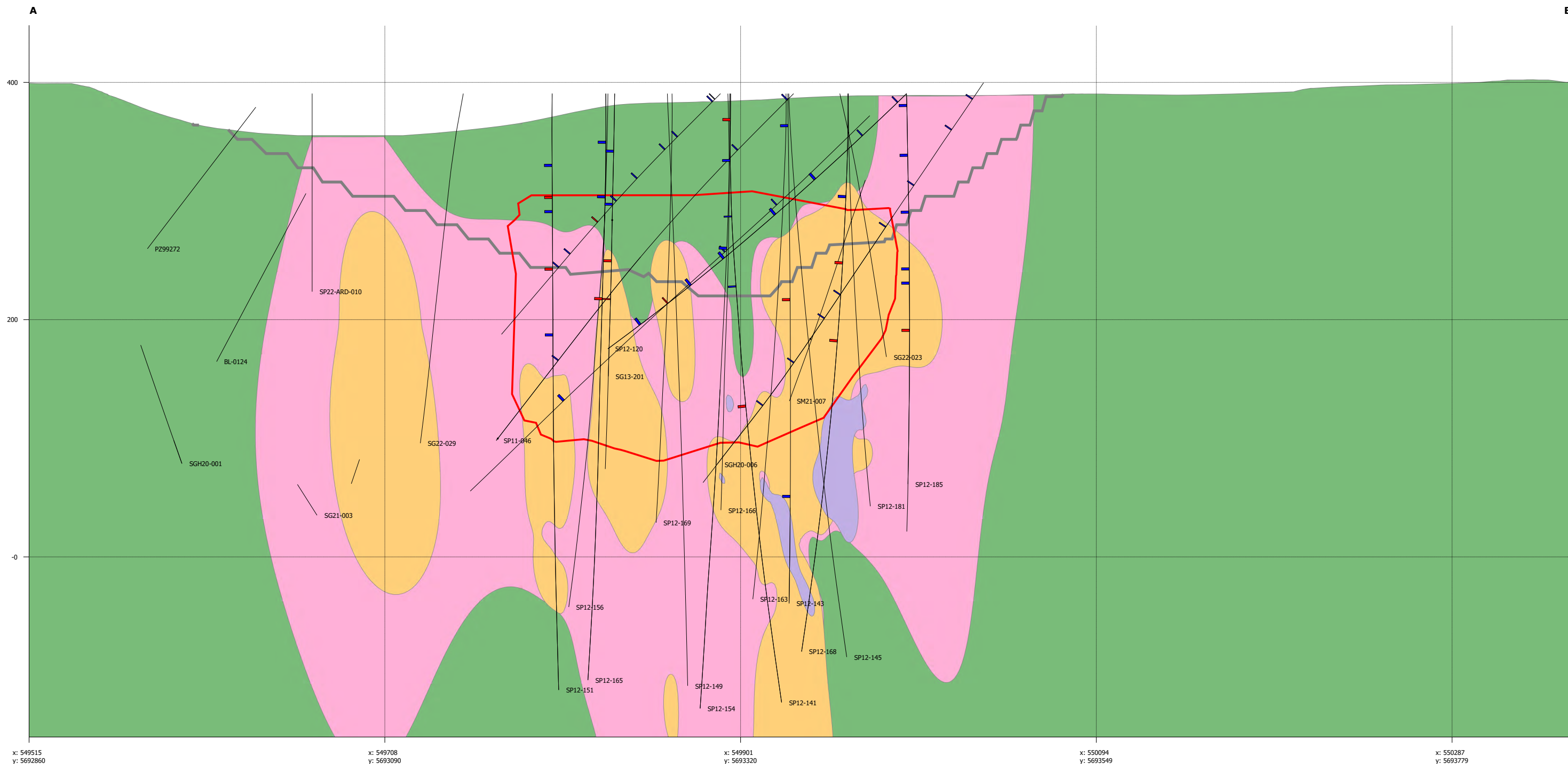
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| — Proposed PFS Pit | ■ And_Tuff_Mseds | ■ Mine Rock |
| — Resource Outline | ■ Por | ■ Ore-Grade |
| | ■ Tra | |
| | ■ Vbx | |



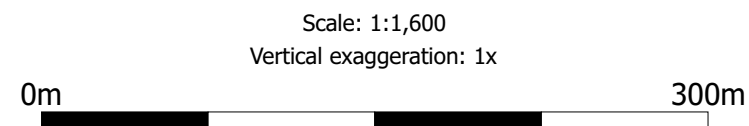
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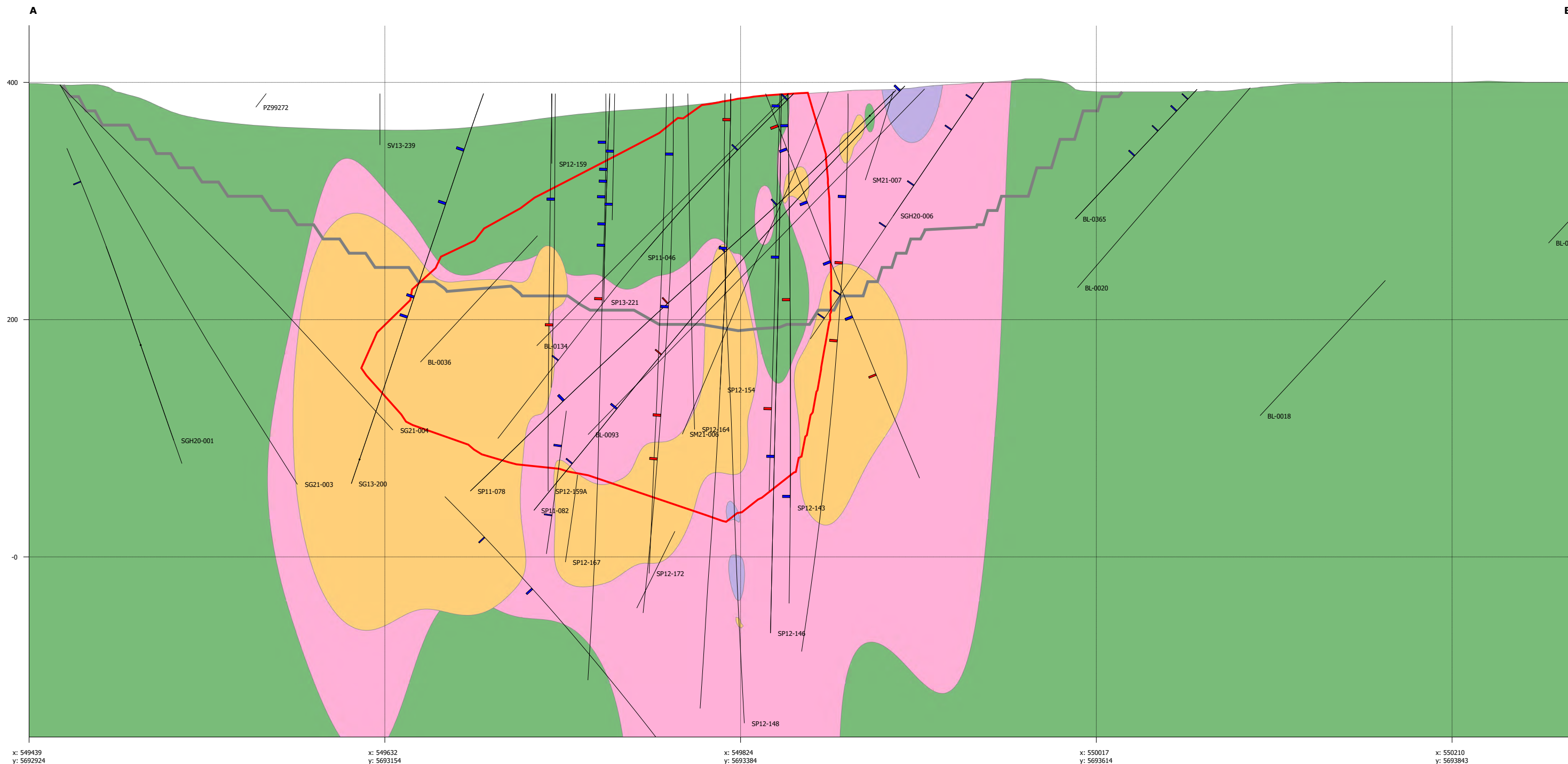
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| PFS Resource Outline | Geological Model 2018 | Geochemical Sample Locations |
| — Proposed PFS Pit | ■ And_Tuff_Mseds | ■ Mine Rock |
| — Resource Outline | ■ Por | ■ Ore-Grade |
| | ■ Tra | |
| | ■ Vbx | |



Clipping +/- 100 m





Vertical -400

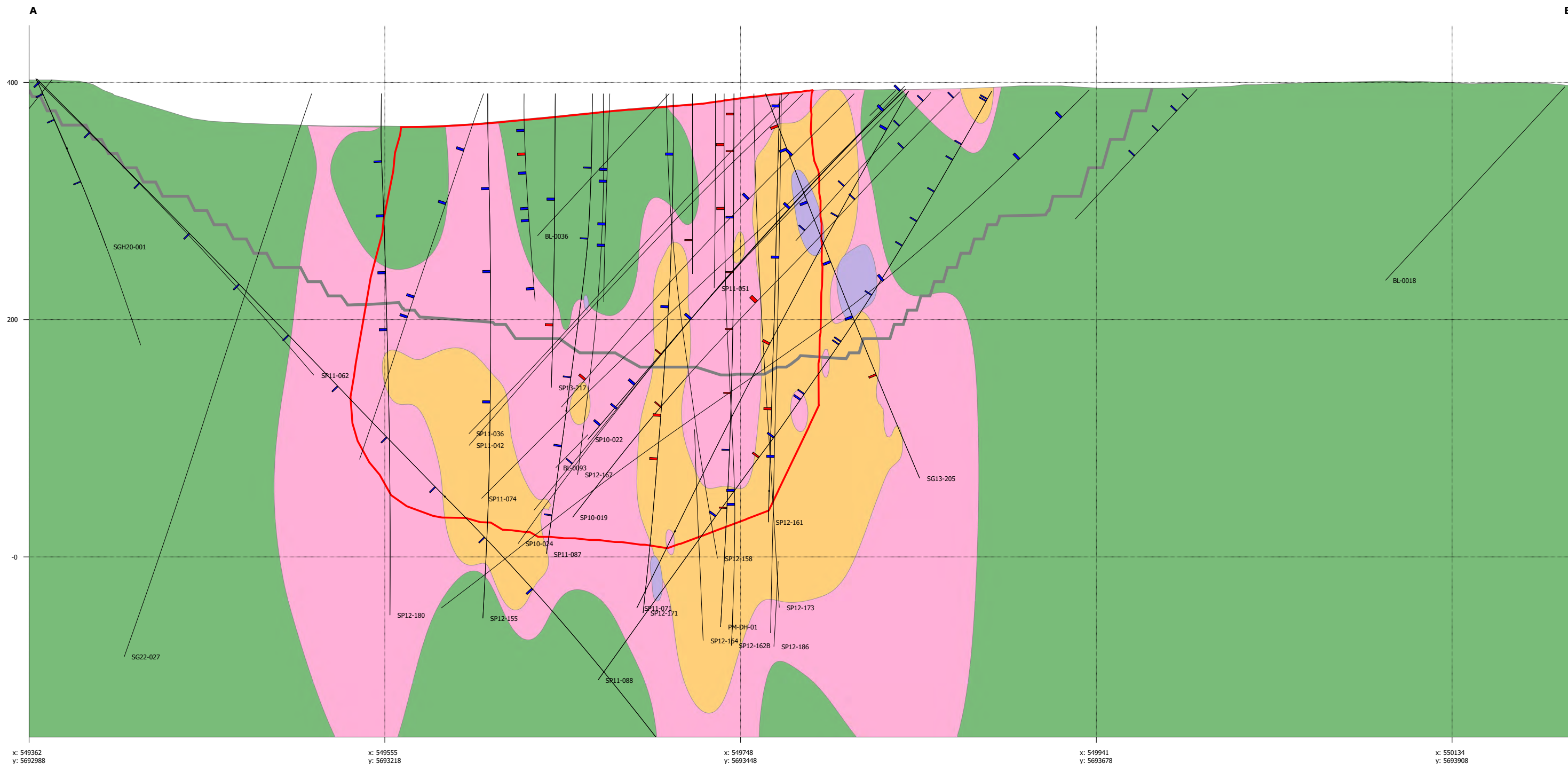
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| — Resource Outline | ■ Por | ■ Ore-Grade |
| | ■ Tra | |
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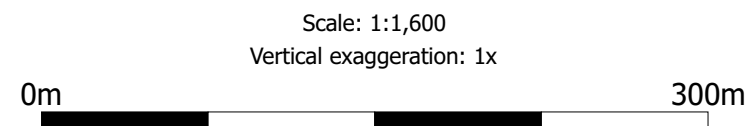
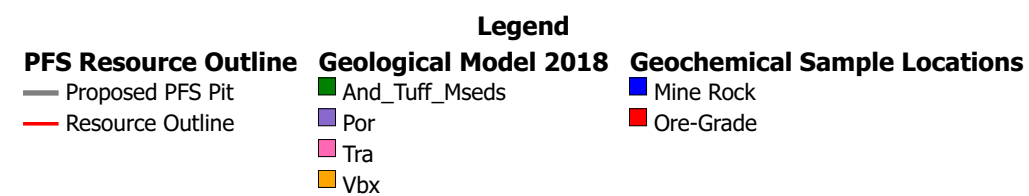
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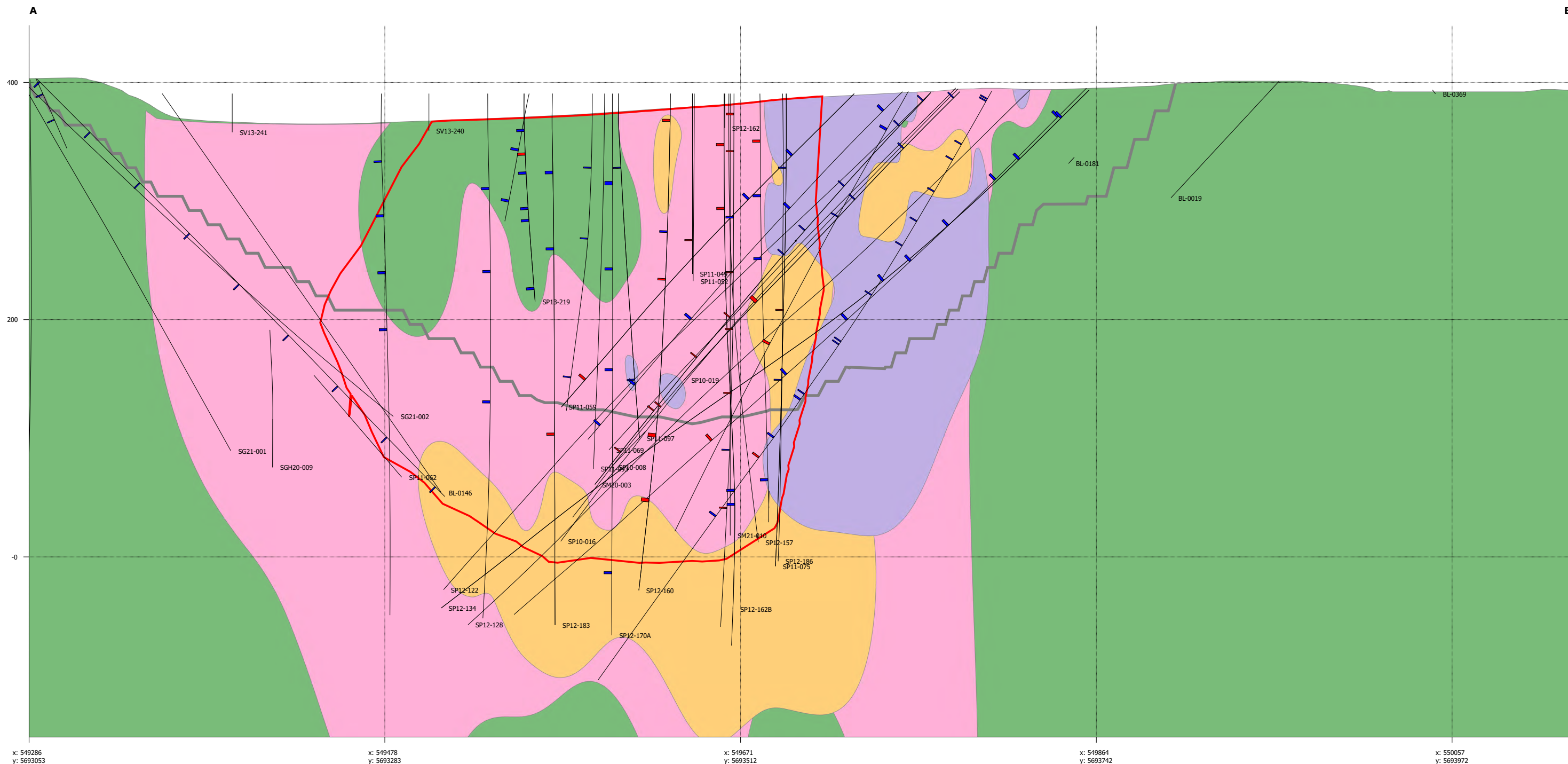


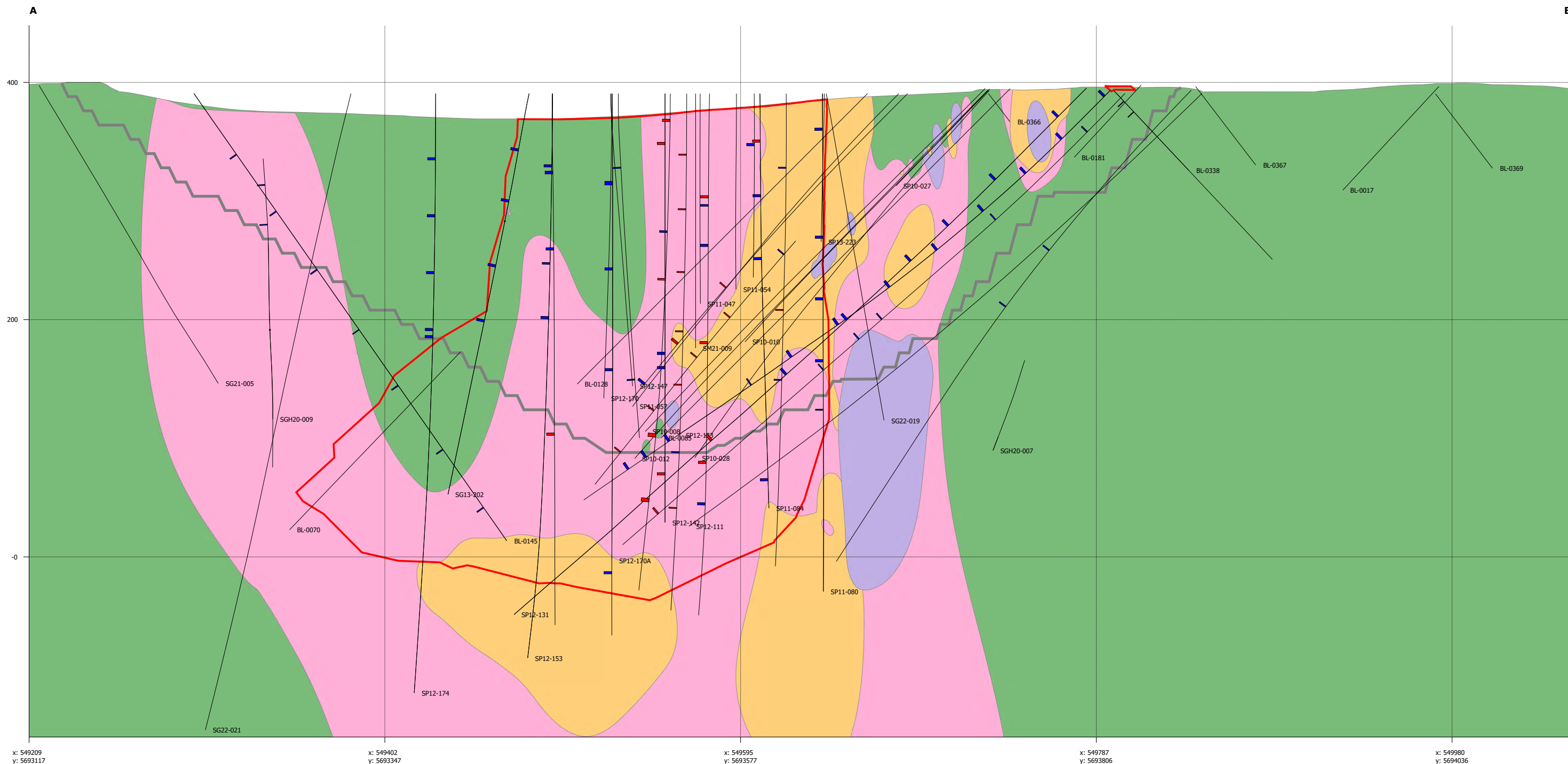
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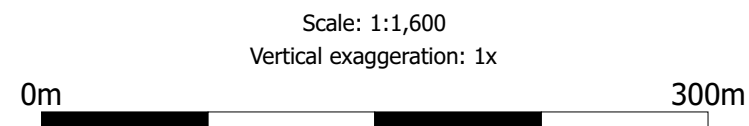






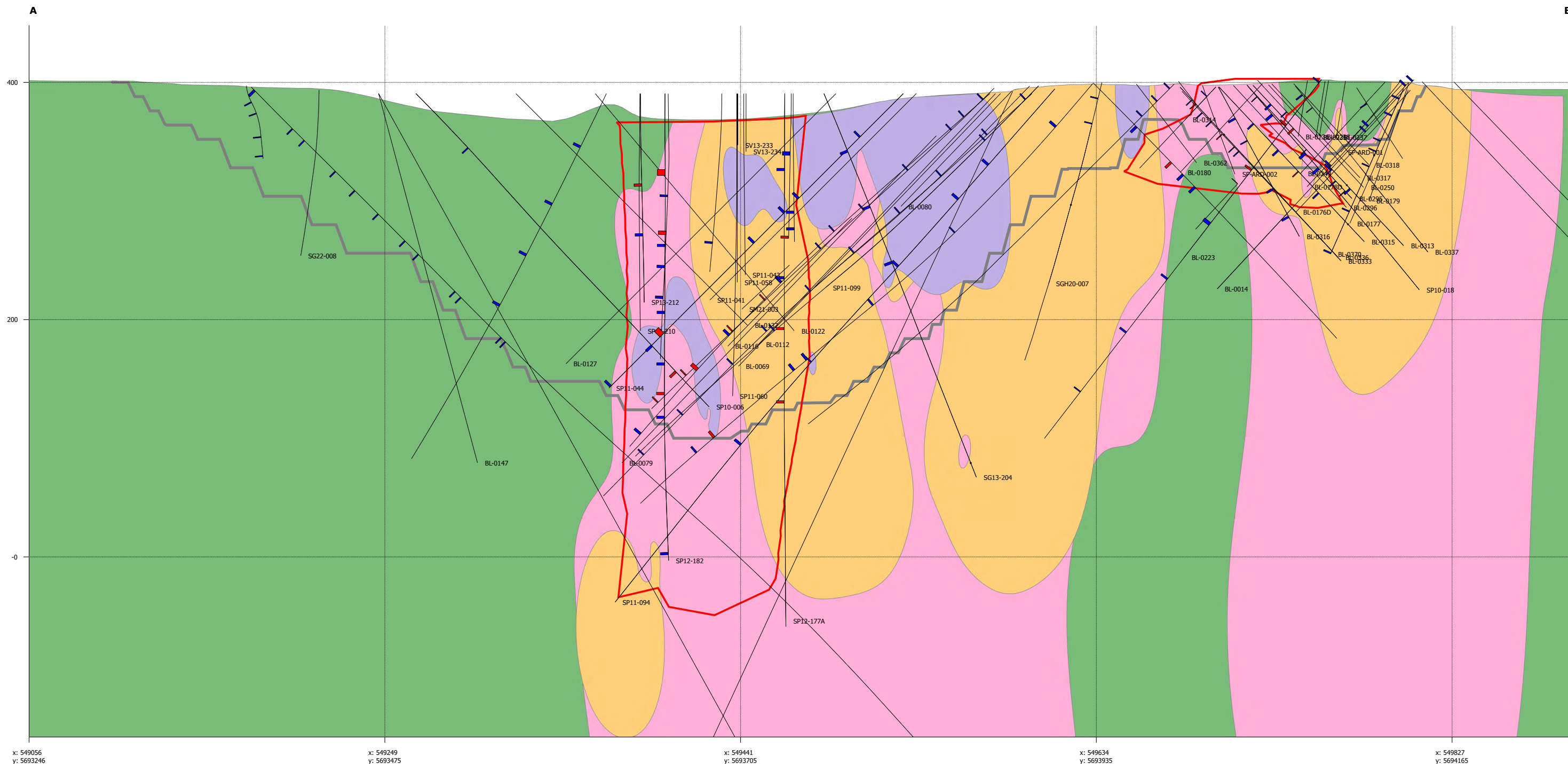
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| PFS Resource Outline | Geological Model 2018 | Geochemical Sample Locations |
| — Proposed PFS Pit | ■ And_Tuff_Mseds | ■ Mine Rock |
| — Resource Outline | ■ Por | ■ Ore-Grade |
| | ■ Tra | |
| | ■ Vbx | |



Clipping +/- 100 m





Vertical 100

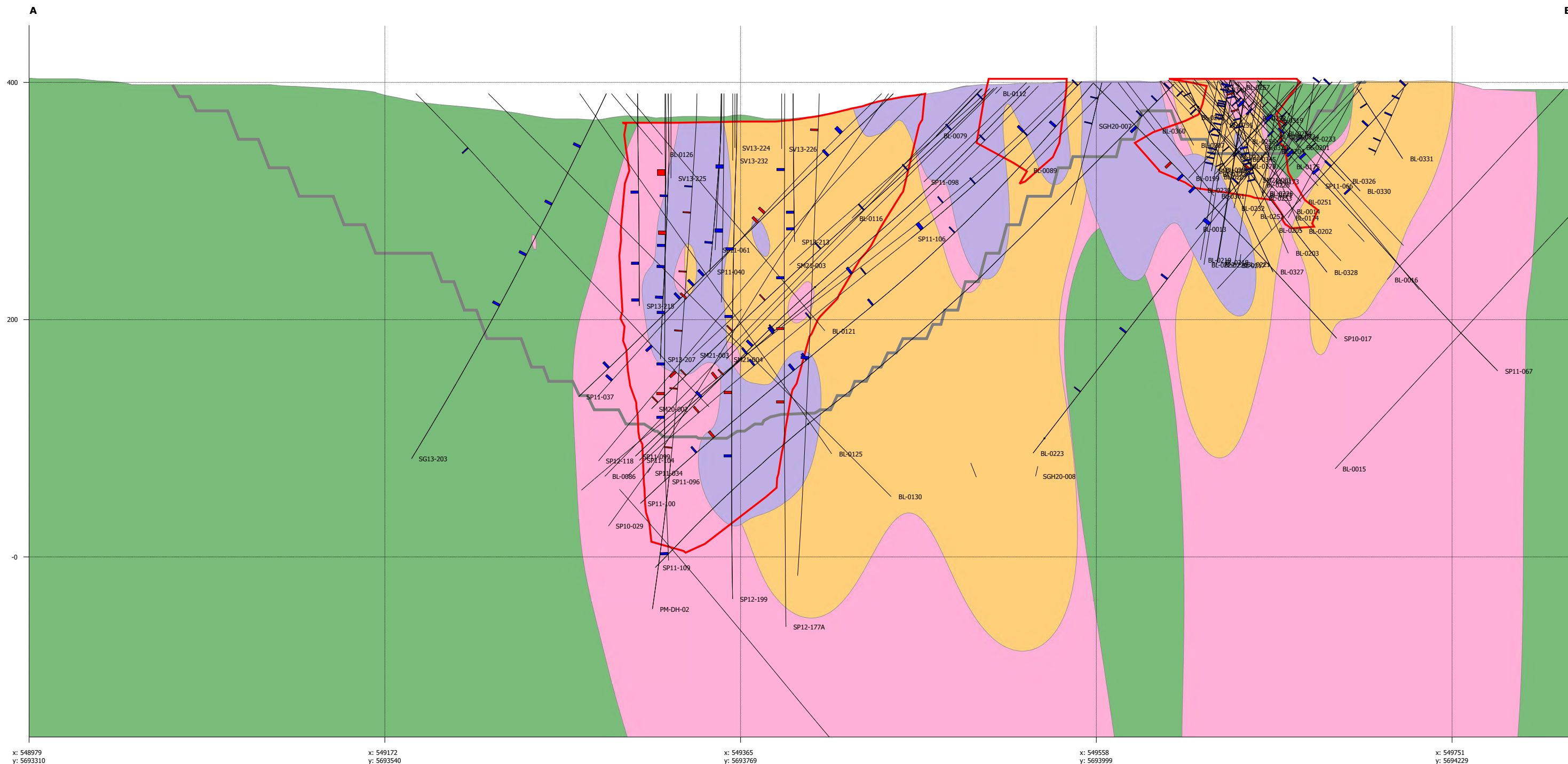
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| — Resource Outline | ■ Por | ■ Ore-Grade |
| | ■ Tra | |
| | ■ Vbx | |

Scale: 1:1,600
Vertical exaggeration: 1x

0m 300m

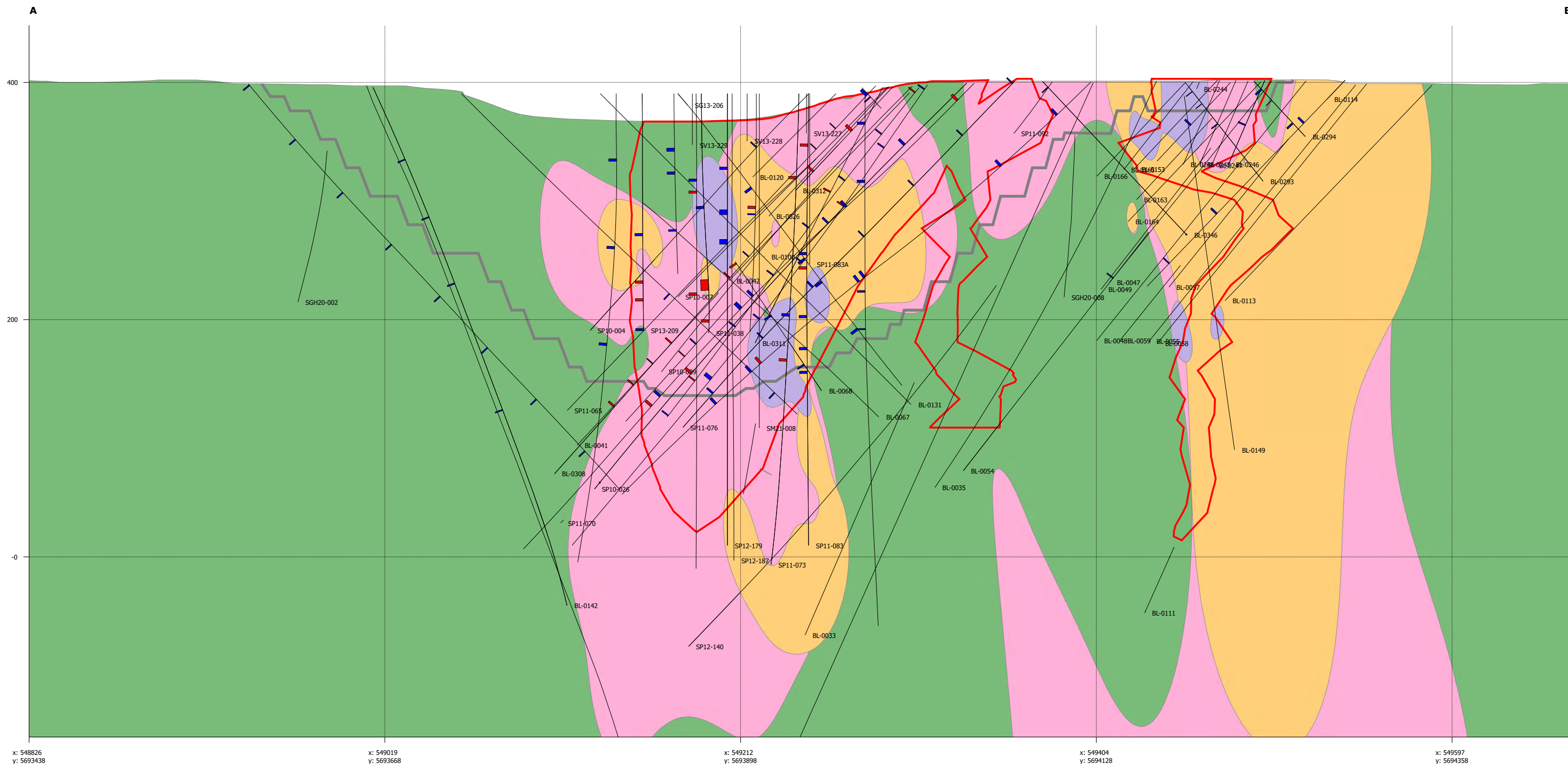
Clipping +/- 100 m

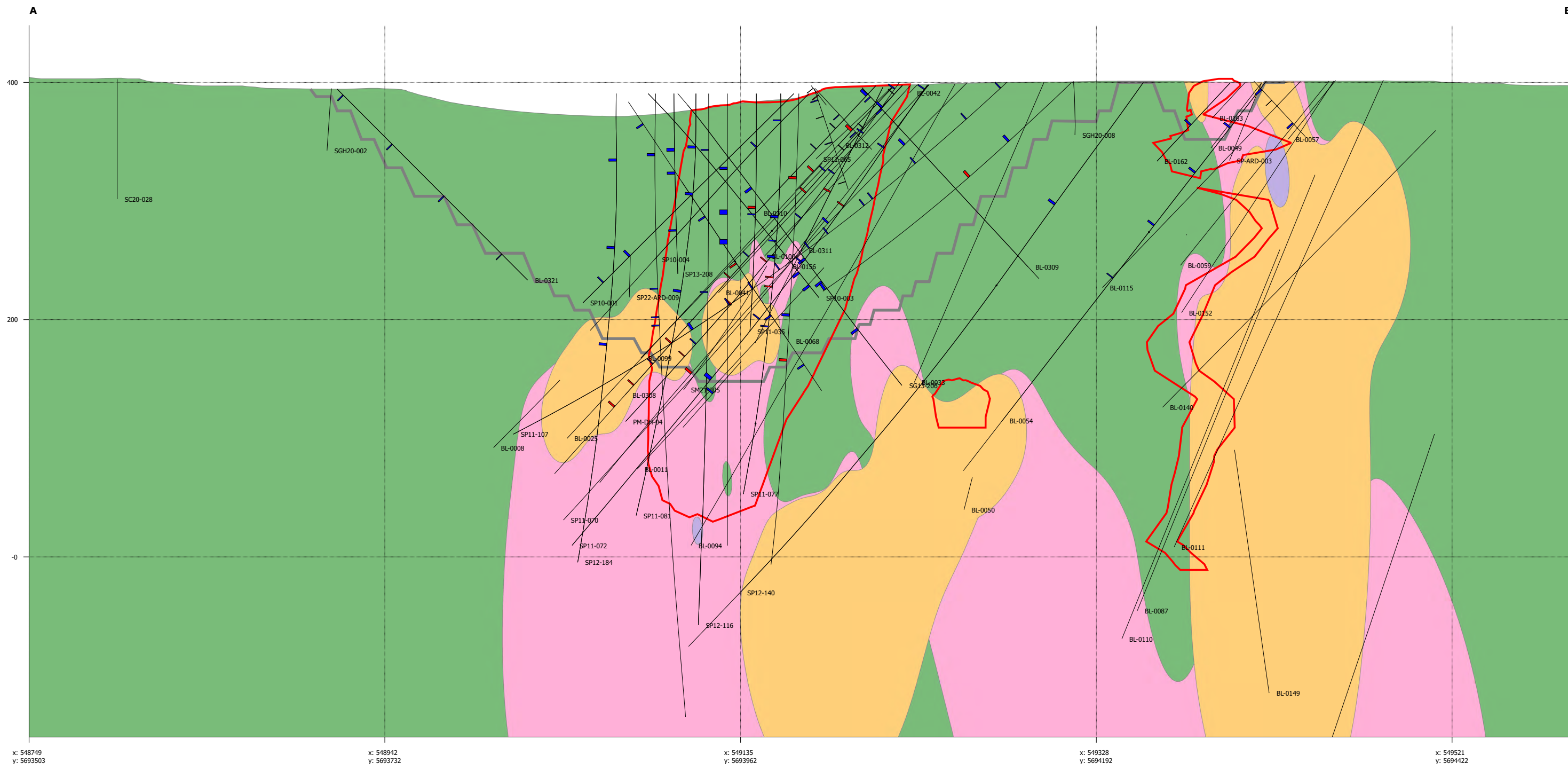




Vertical 200







Vertical 500

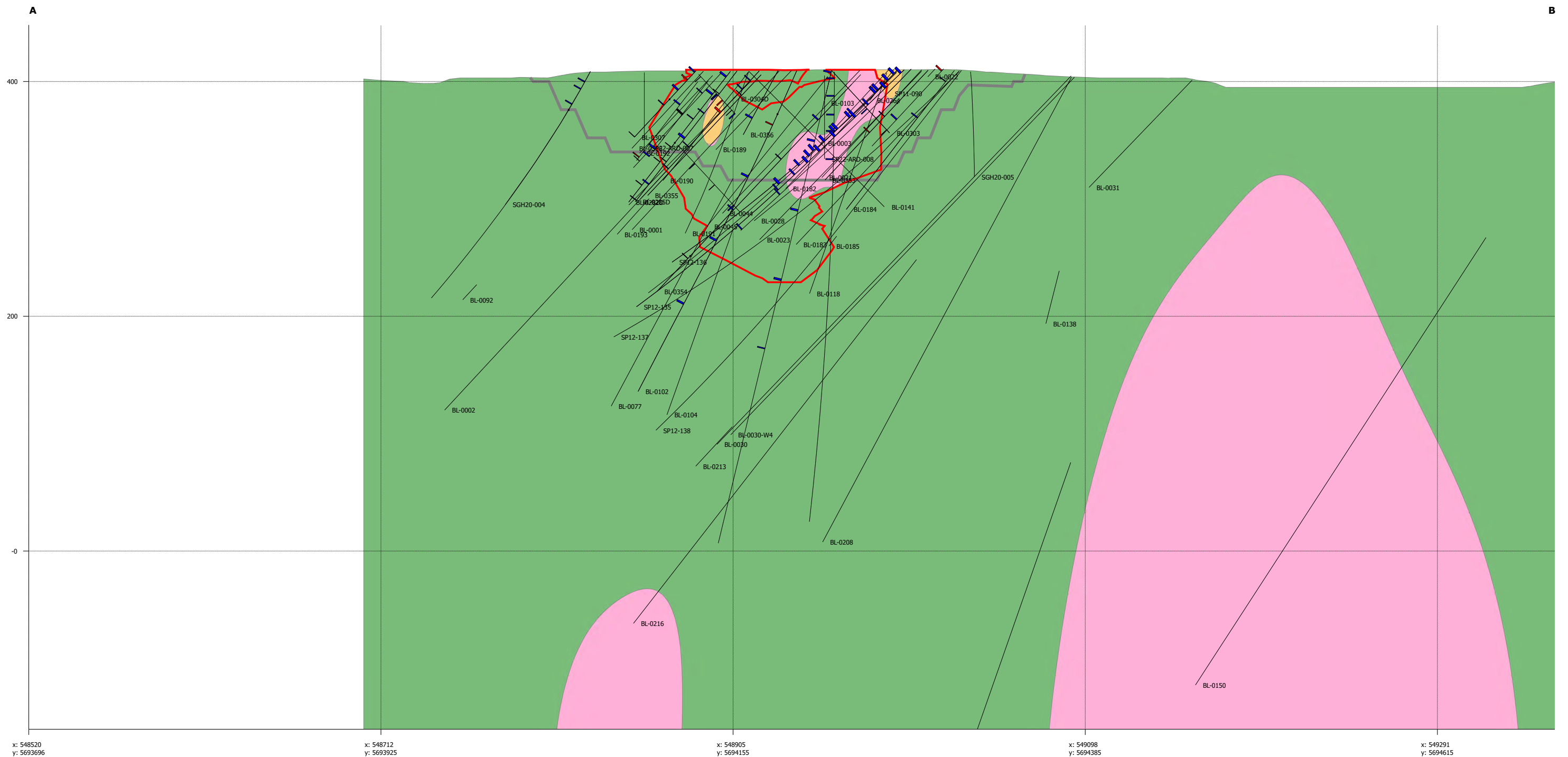
- Legend**
- | | | |
|-----------------------------|------------------------------|-------------------------------------|
| PFS Resource Outline | Geological Model 2018 | Geochemical Sample Locations |
| — Proposed PFS Pit | ■ And_Tuff_Mseds | ■ Mine Rock |
| — Resource Outline | ■ Por | ■ Ore-Grade |
| | ■ Tra | |
| | ■ Vbx | |

Scale: 1:1,600
Vertical exaggeration: 1x

0m 300m



Clipping +/- 100 m



Vertical 800

PFS Resource Outline

- Proposed PFS Pit
— Resource Outline

Legend

Geological Model 2018

- And_Tuff_Mseds
- Tra
- Vbx

Geochemical Sample Locations

- Mine Rock
- Ore-Grade

Scale: 1:1,600

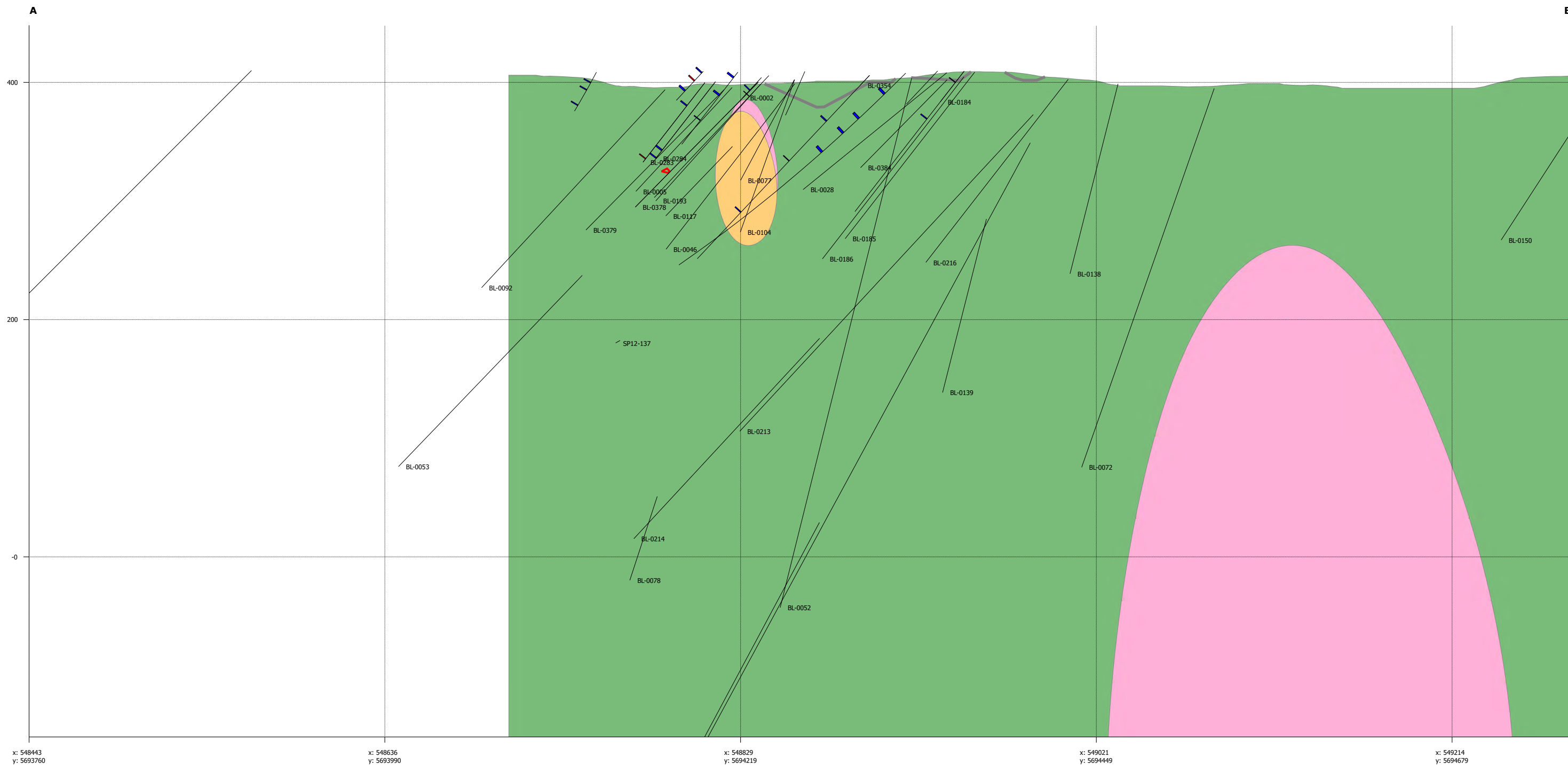
Vertical exaggeration: 1x

0m



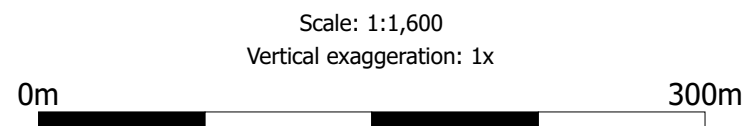
FIRST
MINING GOLD

Clipping +/- 100 m



Vertical 900

- Legend**
- | | | |
|-----------------------------|------------------------------|-------------------------------------|
| PFS Resource Outline | Geological Model 2018 | Geochemical Sample Locations |
| — Proposed PFS Pit | ■ And_Tuff_Mseds | ■ Mine Rock |
| — Resource Outline | ■ Tra | ■ Ore-Grade |
| | ■ Vbx | |



Clipping +/- 100 m

Appendix E

Certificates of Analysis

Global
ARD Testing Services Inc.

CLIENT INFORMATION		
Client:		First Mining Gold Corp.
Consulting Client:		Wood
Project	1	Kristen Gault
Manager(s):	2	Meghan Bertenshaw
Mailing Address:		Suite 2070 - 1188 West Georgia Street
		Vancouver, BC, V6E 4A2
Contact No:	1	(647) 402 3089
	2	(844) 306-8827

RESULTS		
Reported To:	1	Kristen Gault (kristen.gault@woodplc.com)
	2	Anna Klein (anna.klein@woodplc.com)
	3	Bart Debaere (bart.debaere@woodplc.com)
	4	Mark Ridgway (Mark@firstmininggold.com)
cc:		Meghan Bertenshaw (meghan@firstmininggold.com)
Date Reported:	Version-1:	August 9, 2021 (NAG pH Results)
	Version-2:	August 27, 2021 (ABA, SFE, NAG Extract Results)
	Version-3:	September 15, 2021 (Final Report)

COMPANY INFORMATION	
Legal Name:	Global ARD Testing Services Inc.
Mailing Address:	6891 Antrim Avenue, Burnaby, BC, Canada V5J 4M5.
Contact No:	Main: (604) 428-2730 Prab Bhatia (Cell): (604) 603-1359
Fax No:	(604) 428-2731

[illegible]

CERTIFICATE OF ANALYSIS - SAMPLE DETAILS

PAGE: 2 of 9

GLOBAL PROJECT NO: 1956 (B8)

CLIENT: First Mining Gold Corp.

PROJECT NAME: Springpole

PROJECT NO: ONS2104

REPORT VERSION: 3

Sample List:

S. No.	Sample ID	Sample Type	Condition	Wt. of Sample Rec'd (Kg)	Global Notes - if any
1	W-001	Drill Core	Dry	1.60	
2	W-002	Crushed Rock	Damp	2.20	
3	W-003	Drill Core	Damp	4.10	
4	W-004	Crushed Rock	Damp	1.45	Hole in bag
5	W-005	Drill Core	Dry	2.55	
6	W-006	Drill Core	Dry	1.55	
7	W-007	Drill Core	Dry	1.45	
8	W-008	Drill Core	Damp	2.00	
9	W-009	Drill Core	Dry	1.95	
10	W-010	Drill Core	Dry	2.65	
11	W-011	Drill Core	Dry	2.55	
12	W-012	Crushed Rock	Dry	1.30	
13	W-013	Drill Core	Dry	1.50	
14	W-014	Drill Core	Dry	1.60	
15	W-015	Drill Core	Dry	1.40	

Sample Receipt Info:

Date Samples Rec'd:	12-Jul-21
No. of Samples Rec'd:	334
Samples Rec'd By:	Andy

Analytical Instructions:

From:	Anna Klein via email/COC confirmation
Date:	15-Jul-21

CERTIFICATE OF ANALYSIS - SAMPLE DETAILS

PAGE: 2 of 9

GLOBAL PROJECT NO: 1956 (B8)

CLIENT: First Mining Gold Corp.

PROJECT NAME: Springpole

PROJECT NO: ONS2104

REPORT VERSION: 3

Sample List:

S. No.	Sample ID	Sample Type	Condition	Wt. of Sample Rec'd (Kg)	Global Notes - if any
16	W-016	Drill Core	Dry	1.60	
17	W-017	Drill Core	Dry	0.60	Hole in bag
18	W-018	Drill Core	Dry	1.60	Hole in bag
19	W-019	Drill Core	Dry	1.45	
20	W-020	Rock	Dry	0.20	
21	W-021	Drill Core	Damp	1.40	
22	W-022	Crushed Rock	Dry	2.45	
23	W-023	Drill Core	Dry	1.40	
24	W-024	Drill Core	Dry	2.40	
25	W-025	Drill Core	Dry	1.40	
26	W-026	Drill Core	Dry	1.65	
27	W-027	Drill Core	Dry	3.15	
28	W-028	Drill Core	Dry	1.10	
29	W-029	Drill Core	Dry	2.10	
30	W-030	Drill Core	Dry	3.05	
31	W-031	Drill Core	Dry	1.70	
32	W-032	Drill Core	Dry	3.35	
33	W-033	Drill Core	Dry	4.55	
34	W-034	Drill Core	Dry	3.25	
35	W-035	Drill Core	Dry	1.85	
36	W-036	Fines, Rock	Damp	1.50	
37	W-037	Drill Core	Dry	3.35	
38	W-038	Drill Core	Dry	3.60	
39	W-039	Drill Core	Dry	3.75	
40	W-040	Drill Core	Dry	1.35	Hole in bag
41	W-041	Drill Core	Dry	3.35	

Sample Receipt Info:

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CERTIFICATE OF ANALYSIS - SAMPLE DETAILS

PAGE: 2 of 9

GLOBAL PROJECT NO: 1956 (B8)

CLIENT: First Mining Gold Corp.

PROJECT NAME: Springpole

PROJECT NO: ONS2104

REPORT VERSION: 3

Sample List:

S. No.	Sample ID	Sample Type	Condition	Wt. of Sample Rec'd (Kg)	Global Notes - if any
42	W-042	Drill Core	Dry	9.10	
43	W-043	Fines, Rock	Dry	2.50	
44	W-044	Drill Core	Dry	7.35	
45	W-045	Crushed Rock	Dry	0.60	
46	W-046	Drill Core	Dry	6.10	
47	W-047	Drill Core	Dry	4.30	Hole in bag
48	W-048	Drill Core	Dry	5.35	
49	W-049	Drill Core	Dry	4.30	
50	W-050	Drill Core	Dry	8.80	
51	W-051	Drill Core	Dry	4.00	Hole in bag
52	W-052	Drill Core	Dry	7.05	
53	W-053	Drill Core	Dry	3.10	
54	W-054	Drill Core	Dry	7.25	
55	W-055	Drill Core	Dry	2.60	
56	W-056	Drill Core	Dry	6.45	Hole in bag
57	W-057	Drill Core	Dry	4.15	
58	W-058	Drill Core	Dry	8.40	
59	W-059	Drill Core	Dry	8.45	
60	W-060	Drill Core	Dry	8.30	
61	W-061	Drill Core	Dry	9.15	
62	W-062	Drill Core	Dry	8.10	
63	W-063	Drill Core	Dry	8.90	
64	W-064	Drill Core	Dry	7.55	
65	W-065	Drill Core	Dry	8.70	Hole in bag
66	W-066	Drill Core	Dry	8.50	
67	W-067	Drill Core	Dry	8.35	

Sample Receipt Info:

CERTIFICATE OF ANALYSIS - SAMPLE DETAILS

PAGE: 2 of 9

GLOBAL PROJECT NO: 1956 (B8)

CLIENT: First Mining Gold Corp.

PROJECT NAME: Springpole

PROJECT NO: ONS2104

REPORT VERSION: 3

Sample List:

S. No.	Sample ID	Sample Type	Condition	Wt. of Sample Rec'd (Kg)	Global Notes - if any
68	W-068	Drill Core	Dry	7.95	
69	W-069	Drill Core	Dry	9.20	
70	W-070	Drill Core	Dry	7.70	
71	W-071	Drill Core	Dry	9.35	
72	W-072	Drill Core	Dry	6.85	
73	W-073	Drill Core	Dry	8.75	
74	W-074	Drill Core	Dry	7.10	
75	W-075	Drill Core	Dry	4.20	
76	W-076	Drill Core	Dry	7.20	
77	W-077	Drill Core	Dry	8.60	
78	W-078	Drill Core	Dry	8.00	Hole in bag
79	W-079	Drill Core	Dry	8.75	
80	W-080	Drill Core	Dry	4.10	
81	W-081	Drill Core	Dry	8.35	
82	W-082	Drill Core	Dry	4.60	Hole in bag
83	W-083	Drill Core	Dry	7.10	
84	W-084	Drill Core	Dry	9.35	2 Bags
85	W-085	Drill Core	Dry	7.75	
86	W-086	Drill Core	Dry	7.40	
87	W-087	Drill Core	Dry	7.40	
88	W-088	Crushed Rock	Damp	1.80	
89	W-089	Drill Core	Dry	7.80	Hole in bag
90	W-090	Drill Core	Dry	2.80	
91	W-091	Drill Core	Dry	8.55	Hole in bag
92	W-092	Drill Core	Dry	4.30	
93	W-093	Drill Core	Dry	7.25	

Sample Receipt Info:

CERTIFICATE OF ANALYSIS - SAMPLE DETAILS

PAGE: 2 of 9

GLOBAL PROJECT NO: 1956 (B8)

CLIENT: First Mining Gold Corp.

PROJECT NAME: Springpole

PROJECT NO: ONS2104

REPORT VERSION: 3

Sample List:

S. No.	Sample ID	Sample Type	Condition	Wt. of Sample Rec'd (Kg)	Global Notes - if any
94	W-094	Drill Core	Dry	4.35	Hole in bag
95	W-095	Drill Core	Dry	7.60	
96	W-096	Drill Core	Dry	4.50	
97	W-097	Drill Core	Dry	10.35	
98	W-098	Drill Core	Dry	4.70	
99	W-099	Drill Core	Dry	4.80	
100	W-100	Drill Core	Dry	4.25	
101	W-101	Drill Core	Dry	8.20	
102	W-102	Drill Core	Dry	3.65	
103	W-103	Drill Core	Dry	4.30	
104	W-104	Drill Core	Dry	6.45	2 Bags
105	W-105	Drill Core	Dry	5.40	
106	W-106	Drill Core	Dry	7.30	2 Bags
107	W-107	Drill Core	Dry	5.30	
108	W-108	Drill Core	Dry	5.75	2 Bags
109	W-109	Drill Core	Dry	2.65	
110	W-110	Drill Core	Dry	7.50	2 Bags
111	W-111	Drill Core	Dry	5.10	
112	W-112	Drill Core	Dry	7.50	2 Bags
113	W-113	Drill Core	Dry	3.60	
114	W-114	Drill Core	Dry	6.50	2 Bags
115	W-115	Drill Core	Dry	8.10	
116	W-116	Drill Core	Dry	5.95	2 Bags
117	W-117	Drill Core	Dry	9.00	2 Bags
118	W-118	Drill Core	Dry	7.55	2 Bags
119	W-119	Drill Core	Dry	3.90	

Sample Receipt Info:

CERTIFICATE OF ANALYSIS - SAMPLE DETAILS

PAGE: 2 of 9

GLOBAL PROJECT NO: 1956 (B8)

CLIENT: First Mining Gold Corp.

PROJECT NAME: Springpole

PROJECT NO: ONS2104

REPORT VERSION: 3

Sample List:

S. No.	Sample ID	Sample Type	Condition	Wt. of Sample Rec'd (Kg)	Global Notes - if any
120	W-120	Drill Core	Dry	6.20	2 Bags
121	W-121	Drill Core	Dry	3.75	
122	W-122	Drill Core	Dry	6.70	2 Bags
123	W-123	Drill Core	Dry	3.90	
124	W-124	Drill Core	Dry	5.40	2 Bags
125	W-125	Drill Core	Dry	2.95	
126	W-126	Drill Core	Dry	6.00	2 Bags
127	W-127	Drill Core	Dry	2.80	2 Bags
128	W-128	Drill Core	Dry	7.75	2 Bags
129	W-129	Crushed Rock	Dry	1.75	
130	W-130	Drill Core	Dry	6.00	2 Bags
131	W-131	Drill Core	Dry	4.15	
132	W-132	Drill Core	Dry	2.85	
133	W-133	Drill Core	Dry	3.85	
134	W-134	Drill Core	Dry	6.00	2 Bags
135	W-135	Drill Core	Dry	4.25	
136	W-136	Drill Core	Dry	7.75	2 Bags
137	W-137	Drill Core	Dry	4.15	
138	W-138	Drill Core	Dry	6.80	2 Bags
139	W-139	Drill Core	Dry	4.35	
140	W-140	Drill Core	Dry	7.65	2 Bags
141	W-141	Drill Core	Dry	3.60	
142	W-142	Drill Core	Wet	7.25	2 Bags
143	W-143	Drill Core	Dry	6.95	2 Bags
144	W-144	Drill Core	Dry	7.85	2 Bags
145	W-145	Drill Core	Dry	6.05	2 Bags

Sample Receipt Info:

CERTIFICATE OF ANALYSIS - SAMPLE DETAILS

PAGE: 2 of 9

GLOBAL PROJECT NO: 1956 (B8)

CLIENT: First Mining Gold Corp.

PROJECT NAME: Springpole

PROJECT NO: ONS2104

REPORT VERSION: 3

Sample List:

S. No.	Sample ID	Sample Type	Condition	Wt. of Sample Rec'd (Kg)	Global Notes - if any
146	W-146	Drill Core	Dry	7.65	2 Bags
147	W-147	Drill Core	Dry	7.20	2 Bags
148	W-148	Drill Core	Dry	7.15	2 Bags
149	W-149	Drill Core	Dry	6.45	2 Bags
150	W-150	Drill Core	Dry	7.60	2 Bags
151	W-151	Drill Core	Dry	8.05	2 Bags
152	W-152	Drill Core	Dry	9.10	2 Bags
153	W-153	Drill Core	Dry	6.25	2 Bags
154	W-154	Drill Core	Dry	4.60	2 Bags
155	W-155	Drill Core	Dry	6.05	2 Bags
156	W-156	Drill Core	Dry	7.45	2 Bags
157	W-157	Drill Core	Dry	8.05	2 Bags
158	W-158	Drill Core	Dry	7.05	2 Bags
159	W-159	Drill Core	Dry	7.25	2 Bags
160	W-160	Drill Core	Dry	4.20	2 Bags
161	W-161	Drill Core	Dry	7.45	2 Bags
162	W-162	Drill Core	Dry	3.70	
163	W-163	Drill Core	Dry	5.00	
164	W-164	Drill Core	Dry	2.15	
165	W-165	Drill Core	Dry	6.30	
166	W-166	Drill Core	Dry	7.90	
167	W-167	Drill Core	Dry	5.60	
168	W-168	Drill Core	Dry	4.15	
169	W-169	Drill Core	Dry	5.10	
170	W-170	Drill Core	Dry	4.35	
171	W-171	Drill Core	Dry	8.00	2 Bags

Sample Receipt Info:

CERTIFICATE OF ANALYSIS - SAMPLE DETAILS

PAGE: 2 of 9

GLOBAL PROJECT NO: 1956 (B8)

CLIENT: First Mining Gold Corp.

PROJECT NAME: Springpole

PROJECT NO: ONS2104

REPORT VERSION: 3

Sample List:

S. No.	Sample ID	Sample Type	Condition	Wt. of Sample Rec'd (Kg)	Global Notes - if any
172	W-172	Drill Core	Dry	4.65	2 Bags
173	W-173	Drill Core	Dry	4.75	
174	W-174	Drill Core	Dry	5.55	2 Bags
175	W-175	Drill Core	Dry	7.15	2 Bags
176	W-176	Drill Core	Dry	5.30	2 Bags
177	W-177	Drill Core	Dry	6.05	2 Bags
178	W-178	Drill Core	Dry	5.50	2 Bags
179	W-179	Drill Core	Dry	5.95	2 Bags
180	W-180	Crushed Rock	Dry	54.75	2 Bags
181	W-181	Drill Core	Dry	6.90	2 Bags
182	W-182	Crushed Rock	Dry	5.05	2 Bags
183	W-183	Drill Core	Dry	6.05	2 Bags
184	W-184	Drill Core	Dry	5.80	2 Bags
185	W-185	Drill Core	Dry	4.55	2 Bags
186	W-186	Crushed Rock	Dry	5.10	2 Bags
187	W-187	Drill Core	Dry	5.15	2 Bags
188	W-188	Crushed Rock	Dry	4.10	
189	W-189	Drill Core	Dry	8.85	2 Bags
190	W-190	Drill Core	Dry	5.25	2 Bags
191	W-191	Drill Core	Dry	8.35	2 Bags
192	W-192	Drill Core	Dry	7.40	2 Bags
193	W-193	Drill Core	Dry	7.35	2 Bags
194	W-194	Drill Core	Dry	7.05	2 Bags
195	W-195	Drill Core	Dry	7.35	2 Bags
196	W-196	Drill Core	Dry	7.20	2 Bags
197	W-197	Drill Core	Dry	8.40	2 Bags

Sample Receipt Info:

CERTIFICATE OF ANALYSIS - SAMPLE DETAILS

PAGE: 2 of 9

GLOBAL PROJECT NO: 1956 (B8)

CLIENT: First Mining Gold Corp.

PROJECT NAME: Springpole

PROJECT NO: ONS2104

REPORT VERSION: 3

Sample List:

S. No.	Sample ID	Sample Type	Condition	Wt. of Sample Rec'd (Kg)	Global Notes - if any
198	W-198	Drill Core	Dry	6.55	2 Bags
199	W-199	Drill Core	Dry	6.25	
200	W-200	Drill Core	Dry	8.10	2 Bags
201	W-201	Drill Core	Dry	8.15	2 Bags
202	W-202	Drill Core	Dry	7.35	2 Bags
203	W-203	Drill Core	Dry	7.55	2 Bags
204	W-204	Drill Core	Dry	7.75	2 Bags
205	W-205	Drill Core	Dry	6.25	2 Bags
206	W-206	Drill Core	Dry	3.55	
207	W-207	Drill Core	Dry	4.15	
208	W-208	Drill Core	Dry	3.50	
209	W-209	Drill Core	Dry	2.85	
210	W-210	Drill Core	Dry	3.80	
211	W-211	Drill Core	Dry	3.90	
212	W-212	Drill Core	Dry	4.75	
213	W-213	Drill Core	Dry	6.10	2 Bags
214	W-214	Drill Core	Dry	2.50	
215	W-215	Drill Core	Dry	6.45	
216	W-216	Drill Core	Dry	4.75	
217	W-217	Drill Core	Dry	6.90	2 Bags
218	W-218	Drill Core	Dry	2.75	
219	W-219	Drill Core	Dry	5.70	
220	W-220	Drill Core	Dry	4.30	
221	W-221	Drill Core	Dry	7.10	2 Bags
222	W-222	Drill Core	Dry	3.95	
223	W-223	Drill Core	Dry	7.85	2 Bags

Sample Receipt Info:

CERTIFICATE OF ANALYSIS - SAMPLE DETAILS

PAGE: 2 of 9

GLOBAL PROJECT NO: 1956 (B8)

CLIENT: First Mining Gold Corp.

PROJECT NAME: Springpole

PROJECT NO: ONS2104

REPORT VERSION: 3

Sample List:

S. No.	Sample ID	Sample Type	Condition	Wt. of Sample Rec'd (Kg)	Global Notes - if any
224	W-224	Drill Core	Dry	4.45	
225	W-225	Drill Core	Dry	7.20	
226	W-226	Drill Core	Dry	3.70	
227	W-227	Drill Core	Dry	5.60	
228	W-228	Drill Core	Dry	3.75	
229	W-229	Drill Core	Dry	7.95	
230	W-230	Drill Core	Dry	3.95	
231	W-231	Drill Core	Dry	7.60	2 Bags
232	W-232	Drill Core	Dry	4.35	
233	W-233	Drill Core	Dry	1.95	
234	W-234	Drill Core	Dry	2.25	
235	W-235	Drill Core	Dry	5.90	
236	W-236	Drill Core	Dry	6.70	2 Bags
237	W-237	Drill Core	Dry	6.15	
238	W-238	Drill Core	Dry	6.60	2 Bags
239	W-239	Drill Core	Dry	7.95	2 Bags
240	W-240	Drill Core	Dry	7.70	2 Bags
241	W-241	Drill Core	Dry	3.80	
242	W-242	Drill Core	Dry	3.95	
243	W-243	Drill Core	Dry	3.35	
244	W-244	Drill Core	Dry	5.95	
245	W-245	Drill Core	Dry	3.60	
246	W-246	Drill Core	Dry	0.70	
247	W-247	Drill Core	Dry	1.50	
248	W-248	Drill Core	Dry	4.35	
249	W-249	Drill Core	Dry	4.00	

Sample Receipt Info:

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CERTIFICATE OF ANALYSIS - SAMPLE DETAILS

PAGE: 2 of 9

GLOBAL PROJECT NO: 1956 (B8)

CLIENT: First Mining Gold Corp.

PROJECT NAME: Springpole

PROJECT NO: ONS2104

REPORT VERSION: 3

Sample List:

S. No.	Sample ID	Sample Type	Condition	Wt. of Sample Rec'd (Kg)	Global Notes - if any
250	W-250	Drill Core	Dry	4.75	
251	W-251	Drill Core	Dry	3.90	
252	W-252	Drill Core	Dry	3.90	
253	W-253	Drill Core	Dry	4.70	
254	W-254	Drill Core	Dry	3.70	
255	W-255	Fines	Dry	1.85	
256	W-256	Drill Core	Dry	4.25	
257	W-257	Rocks	Dry	1.80	
258	W-258	Drill Core	Dry	3.80	
259	W-259	Fines	Dry	1.90	
260	W-260	Drill Core	Dry	3.90	
261	W-261	Drill Core	Dry	3.65	
262	W-262	Drill Core	Dry	3.65	
263	W-263	Drill Core	Dry	7.20	2 Bags
264	W-264	Drill Core	Dry	4.90	
265	W-265	Drill Core	Dry	7.45	2 Bags
266	W-266	Crushed Rock	Dry	1.35	
267	W-267	Drill Core	Dry	7.25	2 Bags
268	W-268	Drill Core	Dry	1.45	
269	W-269	Drill Core	Dry	7.20	2 Bags
270	W-270	Fines, Rock	Damp	1.05	
271	W-271	Drill Core	Dry	4.40	
272	W-272	Drill Core	Dry	3.80	
273	W-273	Drill Core	Dry	4.25	
274	W-274	Drill Core	Dry	3.95	
275	W-275	Drill Core	Dry	2.10	

Sample Receipt Info:

CERTIFICATE OF ANALYSIS - SAMPLE DETAILS

PAGE: 2 of 9

GLOBAL PROJECT NO: 1956 (B8)

CLIENT: First Mining Gold Corp.

PROJECT NAME: Springpole

PROJECT NO: ONS2104

REPORT VERSION: 3

Sample List:

S. No.	Sample ID	Sample Type	Condition	Wt. of Sample Rec'd (Kg)	Global Notes - if any
276	W-276	Drill Core	Dry	4.00	
277	W-277	Drill Core	Dry	3.00	
278	W-278	Drill Core	Dry	3.65	
279	W-279	Drill Core	Dry	2.50	
280	W-280	Drill Core	Dry	4.10	
281	W-281	Drill Core	Dry	3.75	
282	W-282	Drill Core	Dry	3.95	
283	W-283	Drill Core	Dry	3.60	
284	W-284	Drill Core	Dry	4.60	
285	W-285	Drill Core	Dry	3.25	
286	W-286	Drill Core	Dry	4.15	
287	W-287	Drill Core	Dry	3.15	
288	W-288	Drill Core	Dry	4.30	
289	W-289	Drill Core	Dry	4.90	
290	W-290	Drill Core	Dry	4.10	
291	W-291	Drill Core	Dry	4.55	
292	W-292	Drill Core	Dry	4.10	
293	W-293	Drill Core	Dry	4.80	
294	W-294	Drill Core	Dry	4.15	
295	W-295	Drill Core	Dry	3.85	
296	W-296	Drill Core	Dry	4.20	
297	W-297	Drill Core	Dry	4.20	
298	W-298	Drill Core	Dry	4.25	
299	W-299	Drill Core	Dry	4.20	
300	W-300	Drill Core	Dry	8.70	2 Bags
301	W-301	Drill Core	Dry	3.65	

Sample Receipt Info:

CERTIFICATE OF ANALYSIS - SAMPLE DETAILS

PAGE: 2 of 9

GLOBAL PROJECT NO: 1956 (B8)

CLIENT: First Mining Gold Corp.

PROJECT NAME: Springpole

PROJECT NO: ONS2104

REPORT VERSION: 3

Sample List:

S. No.	Sample ID	Sample Type	Condition	Wt. of Sample Rec'd (Kg)	Global Notes - if any
302	W-302	Drill Core	Dry	3.70	
303	W-303	Drill Core	Dry	4.45	
304	W-304	Drill Core	Dry	4.40	
305	W-305	Drill Core	Dry	4.10	
306	W-306	Drill Core	Dry	4.10	
307	W-307	Drill Core	Dry	3.85	
308	W-308	Drill Core	Dry	4.50	
309	W-309	Drill Core	Dry	3.35	
310	W-310	Drill Core	Dry	4.30	
311	W-311	Drill Core	Dry	3.90	
312	W-312	Drill Core	Dry	4.85	
313	W-313	Drill Core	Damp	3.10	
314	W-314	Drill Core	Dry	3.95	
315	W-315	Drill Core	Dry	4.30	
316	W-316	Drill Core	Dry	4.20	
317	W-317	Drill Core	Dry	4.50	
318	W-318	Drill Core	Dry	4.15	
319	W-319	Drill Core	Dry	3.70	
320	W-320	Drill Core	Dry	4.05	
321	W-321	Drill Core	Dry	4.10	
322	W-322	Drill Core	Dry	3.90	
323	W-323	Drill Core	Dry	3.60	
324	W-324	Drill Core	Dry	4.30	
325	W-325	Drill Core	Dry	3.50	
326	W-326	Drill Core	Dry	5.25	
327	W-327	Drill Core	Dry	3.75	

Sample Receipt Info:

CERTIFICATE OF ANALYSIS - SAMPLE DETAILS

PAGE: 2 of 9

GLOBAL PROJECT NO: 1956 (B8)

CLIENT: First Mining Gold Corp.

PROJECT NAME: Springpole

PROJECT NO: ONS2104

REPORT VERSION: 3

Sample List:

S. No.	Sample ID	Sample Type	Condition	Wt. of Sample Rec'd (Kg)	Global Notes - if any
328	W-328	Drill Core	Dry	5.20	
329	W-329	Drill Core	Dry	3.25	
330	W-330	Drill Core	Dry	4.85	
331	W-331	Drill Core	Dry	3.60	
332	W-332	Drill Core	Dry	5.55	
333	W-333	Drill Core	Dry	3.80	
334	W-334	Drill Core	Dry	5.35	

Sample Receipt Info:

Total wt of sample rec'd (kg): **1715.85**

CERTIFICATE OF ANALYSIS - ABA + QA/QC RESULTS

PAGE: 3 of 9
GLOBAL PROJECT NO: 1956 (B8)
CLIENT: First Mining Gold Corp.
PROJECT NAME: Springpole
PROJECT NO: ONS2104
REPORT VERSION: 3

S. No.	Sample ID	Paste pH	Fizz Rating	Total Carbon	Total Inorganic C	CaCO ₃ Equivalents ¹	Total Sulphur	Sulphate Sulphur	Sulphide Sulphur	AP ³	STD Sobek NP	NNP ⁴	NPR ⁵
Units:		pH Units		wt. %	wt. %	kg CaCO ₃ /tonne	wt. %	wt. %	wt. %		kg CaCO ₃ /tonne		
Reported Detection Limit:		0.01		0.02	0.02	1.7	0.01	0.01	0.01	0.3	0.5		
1	W-001	8.2	None	0.14	<0.02	<1.7	2.17	<0.01	2.17	67.8	8.7	-59.1	0.1
2	W-002	8.2	None	0.46	<0.02	<1.7	4.2	0.03	4.17	130.3	11.0	-119.3	0.1
3	W-003	8.6	Strong	3.83	3.16	263.3	2.35	0.19	2.16	67.5	313.1	245.6	4.6
4	W-004	7.8	None	0.07	<0.02	<1.7	5.84	0.03	5.81	181.6	8.4	-173.2	0.0
5	W-005	9.0	Moderate	0.2	0.07	5.8	1.00	0.03	0.97	30.3	16.6	-13.7	0.5
6	W-006	8.3	Moderate	0.37	0.25	20.8	0.90	<0.01	0.90	28.1	25.1	-3.0	0.9
7	W-007	8.1	None	0.17	<0.02	<1.7	3.03	0.03	3.00	93.8	16.2	-77.6	0.2
8	W-008	7.9	None	<0.02	<0.02	<1.7	1.31	0.03	1.28	40.0	3.9	-36.1	0.1
9	W-009	8.0	None	0.62	<0.02	<1.7	2.5	0.03	2.47	77.2	14.0	-63.2	0.2
10	W-010	7.9	None	0.26	<0.02	<1.7	0.9	0.03	0.87	27.2	16.5	-10.7	0.6
11	W-011	7.6	None	0.17	<0.02	<1.7	1.04	<0.01	1.04	32.5	16.2	-16.3	0.5
12	W-012	7.5	None	<0.02	<0.02	<1.7	7.45	0.03	7.42	231.9	3.3	-228.6	0.0
13	W-013	6.6	None	0.52	<0.02	<1.7	4.97	0.04	4.93	154.1	9.2	-144.9	0.1
14	W-014	7.9	None	0.42	<0.02	<1.7	6.95	0.03	6.92	216.3	10.2	-206.1	0.0
15	W-015	7.1	None	<0.02	<0.02	<1.7	6.15	0.03	6.12	191.3	10.6	-180.7	0.1
16	W-016	9.3	Strong	1.16	0.98	81.7	1.07	<0.01	1.07	33.4	104.1	70.7	3.1
17	W-017	7.2	None	0.24	<0.02	<1.7	0.96	0.04	0.92	28.8	4.9	-23.9	0.2
18	W-018	7.5	None	0.02	<0.02	<1.7	2.68	0.03	2.65	82.8	4.0	-78.8	0.0
19	W-019	6.8	None	<0.02	<0.02	<1.7	4.51	0.04	4.47	139.7	4.7	-135.0	0.0
20	W-020	8.7	None	<0.02	<0.02	<1.7	2.94	<0.01	2.94	91.9	8.4	-83.5	0.1
21	W-021	7.8	None	0.08	<0.02	<1.7	3.39	<0.01	3.39	105.9	3.8	-102.1	0.0
22	W-022	6.3	None	<0.02	<0.02	<1.7	1.53	0.03	1.50	46.9	8.1	-38.8	0.2
23	W-023	7.9	None	0.10	<0.02	<1.7	0.89	0.04	0.85	26.6	16.5	-10.1	0.6
24	W-024	9.0	Strong	1.63	1.46	121.7	0.5	<0.01	0.50	15.6	135.5	119.9	8.7
25	W-025	7.9	None	0.16	0.03	2.5	2.42	<0.01	2.42	75.6	13.5	-62.1	0.2
26	W-026	7.9	None	0.05	<0.02	<1.7	2.67	<0.01	2.67	83.4	13.2	-70.2	0.2
27	W-027	9.2	None	<0.02	<0.02	<1.7	0.17	<0.01	0.17	5.3	18.5	13.2	3.5
28	W-028	8.3	None	0.03	<0.02	<1.7	0.01	0.01	<0.01	<0.3	5.8	5.8	N/A
29	W-029	8.3	None	<0.02	<0.02	<1.7	1.87	0.05	1.82	56.9	13.2	-43.7	0.2
30	W-030	7.9	None	<0.02	<0.02	<1.7	2.68	0.02	2.66	83.1	5.3	-77.8	0.1
31	W-031	8.4	Strong	0.68	0.50	41.7	2.04	0.03	2.01	62.8	67.7	4.9	1.1
32	W-032	8.5	Strong	1.38	0.90	75.0	4.16	0.03	4.13	129.1	118.5	-10.6	0.9
33	W-033	8.9	Strong	0.67	0.63	52.5	0.06	0.02	0.04	1.3	88.6	87.4	70.9
34	W-034	9.1	Moderate	2.39	2.13	177.5	0.45	<0.01	0.45	14.1	173.2	159.1	12.3
35	W-035	8.3	None	<0.02	<0.02	<1.7	1.33	<0.01	1.33	41.6	4.2	-37.4	0.1
36	W-036	6.4	None	0.30	<0.02	<1.7	2.05	0.05	2.00	62.5	6.7	-55.8	0.1
37	W-037	8.9	Strong	1.20	1.00	83.3	0.86	0.03	0.83	25.9	102.6	76.7	4.0
38	W-038	8.8	Strong	1.59	1.14	95.0	2.68	0.04	2.64	82.5	135.5	53.0	1.6
39	W-039	9.3	Moderate	1.96	1.73	144.2	0.16	0.04	0.12	3.8	147.5	143.8	39.3

S. No.	Sample ID	Paste pH	Fizz Rating	Total Carbon wt. %	Total Inorganic C wt %	CaCO ₃ Equivalents ⁻¹ kg CaCO ₃ /tonne	Total Sulphur wt. %	Sulphate Sulphur wt %	Sulphide Sulphur wt %	AP ⁻³	STD Sobek NP	NNP ⁻⁴	NPR ⁻⁵
Units:		pH Units									kg CaCO ₃ /tonne		
Reported Detection Limit:		0.01		0.02	0.02	1.7	0.01	0.01	0.01	0.3	0.5		
40	W-040	8.2	None	<0.02	<0.02	<1.7	4.63	0.04	4.59	143.4	13.4	-130.0	0.1
41	W-041	9.6	Moderate	2.06	1.98	165.0	0.08	<0.01	0.08	2.5	169.8	167.3	67.9
42	W-042	8.8	Strong	2.57	2.47	205.8	0.08	0.03	0.05	1.6	181.6	180.0	116.2
43	W-043	7.9	Moderate	0.12	0.07	5.8	3.42	0.03	3.39	105.9	15.8	-90.1	0.1
44	W-044	7.9	None	0.33	0.05	4.2	0.3	0.03	0.27	8.4	17.4	9.0	2.1
45	W-045	8.6	None	0.32	<0.02	<1.7	1.49	0.04	1.45	45.3	6.9	-38.4	0.2
46	W-046	8.0	None	0.24	<0.02	<1.7	0.43	<0.01	0.43	13.4	13.4	0.0	1.0
47	W-047	9.2	Strong	2.25	2.03	169.2	0.37	<0.01	0.37	11.6	180.7	169.1	15.6
48	W-048	8.1	None	<0.02	<0.02	<1.7	3.56	0.03	3.53	110.3	11.3	-99.0	0.1
49	W-049	9.1	Strong	3.05	2.75	229.2	0.47	<0.01	0.47	14.7	211.3	196.6	14.4
50	W-050	9.1	Moderate	2.24	2.00	166.7	0.25	0.02	0.23	7.2	161.1	153.9	22.4
51	W-051	9.2	Strong	0.39	0.33	27.5	0.36	0.03	0.33	10.3	38.8	28.5	3.8
52	W-052	8.6	Moderate	1.93	1.29	107.5	4.05	0.03	4.02	125.6	150.4	24.8	1.2
53	W-053	8.5	None	0.14	0.04	3.3	2.67	0.03	2.64	82.5	14.7	-67.8	0.2
54	W-054	8.9	Strong	2.02	1.44	120.0	2.69	<0.01	2.69	84.1	165.8	81.7	2.0
55	W-055	7.8	None	<0.02	<0.02	<1.7	2.02	<0.01	2.02	63.1	5.8	-57.3	0.1
56	W-056	9.5	Moderate	0.65	0.59	49.2	0.14	<0.01	0.14	4.4	59.3	54.9	13.6
57	W-057	8.7	Strong	1.53	1.51	125.8	<0.01	<0.01	<0.01	<0.3	146.1	146.1	N/A
58	W-058	9.4	Moderate	1.07	0.91	75.8	0.23	0.03	0.20	6.3	82.0	75.8	13.1
59	W-059	8.3	Strong	1.78	1.67	139.2	0.43	0.03	0.40	12.5	150.1	137.6	12.0
60	W-060	8.3	Moderate	1.25	1.05	87.5	1.03	0.03	1.00	31.3	101.0	69.8	3.2
61	W-061	8.8	Strong	1.82	1.68	140.0	0.46	0.03	0.43	13.4	142.7	129.3	10.6
62	W-062	8.4	Strong	1.9	1.69	140.8	0.33	0.01	0.32	10.0	128.9	118.9	12.9
63	W-063	8.7	Strong	1.97	1.89	157.5	0.15	0.03	0.12	3.8	167.2	163.5	44.6
64	W-064	8.6	Moderate	1.92	1.74	145.0	0.22	<0.01	0.22	6.9	132.3	125.4	19.2
65	W-065	8.5	Moderate	1.51	1.03	85.8	2.92	0.03	2.89	90.3	103.3	13.0	1.1
66	W-066	9.1	Strong	1.21	1.08	90.0	0.46	<0.01	0.46	14.4	95.9	81.5	6.7
67	W-067	8.6	Strong	3.46	3.22	268.3	0.41	<0.01	0.41	12.8	226.2	213.4	17.7
68	W-068	9.1	Strong	1.69	1.51	125.8	0.59	<0.01	0.59	18.4	142.2	123.8	7.7
69	W-069	9.1	Moderate	0.79	0.47	39.2	1.19	0.03	1.16	36.3	62.0	25.8	1.7
70	W-070	9.2	Strong	1.36	1.05	87.5	2.06	<0.01	2.06	64.4	127.2	62.8	2.0
71	W-071	9.0	Moderate	1.84	1.36	113.3	2.24	0.03	2.21	69.1	131.7	62.6	1.9
72	W-072	7.7	None	0.08	<0.02	<1.7	1.18	0.07	1.11	34.7	16.5	-18.2	0.5
73	W-073	8.4	Moderate	2.03	1.59	132.5	1.91	0.03	1.88	58.8	137.8	79.1	2.3
74	W-074	9.0	Strong	1.11	1.03	85.8	0.06	0.03	0.03	0.9	108.4	107.5	115.6
75	W-075	9.2	Strong	1.5	1.33	110.8	0.34	0.03	0.31	9.7	121.6	111.9	12.6
76	W-076	9.2	Strong	0.95	0.76	63.3	0.91	<0.01	0.91	28.4	88.4	60.0	3.1
77	W-077	9.0	Strong	2.94	2.61	217.5	0.24	0.03	0.21	6.6	173.5	166.9	26.4
78	W-078	8.9	Moderate	0.54	0.27	22.5	5.01	0.04	4.97	155.3	65.0	-90.3	0.4
79	W-079	8.9	Moderate	1.59	1.39	115.8	0.59	0.04	0.55	17.2	107.8	90.6	6.3
80	W-080	8.8	Moderate	0.96	0.65	54.2	1.43	0.03	1.40	43.8	85.1	41.4	1.9
81	W-081	9.5	Moderate	0.88	0.70	58.3	0.55	0.03	0.52	16.3	67.3	51.1	4.1
82	W-082	8.7	Strong	2.33	2.09	174.2	0.85	<0.01	0.85	26.6	173.3	146.7	6.5

S. No.	Sample ID	Paste pH	Fizz Rating	Total Carbon wt. %	Total Inorganic C wt %	CaCO ₃ Equivalents ⁻¹ kg CaCO3/tonne	Total Sulphur wt. %	Sulphate Sulphur wt %	Sulphide Sulphur wt %	AP ⁻³	STD Sobek NP	NNP ⁻⁴	NPR ⁻⁵
Units:		pH Units									kg CaCO3/tonne		
Reported Detection Limit:		0.01		0.02	0.02	1.7	0.01	0.01	0.01	0.3	0.5		
83	W-083			1.84			0.2						
84	W-084	9.5	Strong	2.04	1.77	147.5	0.71	0.03	0.68	21.3	168.0	146.8	7.9
85	W-085			2.17			0.31						
86	W-086	8.7	Strong	0.93	0.50	41.7	2.94	0.03	2.91	90.9	87.1	-3.8	1.0
87	W-087			3.76			0.11						
88	W-088	7.3	None	0.52	0.07	5.8	2.74	0.03	2.71	84.7	13.6	-71.1	0.2
89	W-089			2.12			0.48						
90	W-090	8.2	None	0.22	0.10	8.3	1.07	0.03	1.04	32.5	21.8	-10.7	0.7
91	W-091	8.8	Strong	1.74	1.54	128.3	0.94	0.01	0.93	29.1	166.0	136.9	5.7
92	W-092	8.7	Moderate	3.18	2.79	232.5	0.96	0.03	0.93	29.1	189.8	160.7	6.5
93	W-093			2.23			3.8						
94	W-094	8.7	Strong	2.04	1.93	160.8	0.02	0.02	<0.01	<0.3	177.3	177.3	N/A
95	W-095			2.03			5.03						
96	W-096	9.4	Moderate	2.96	2.50	208.3	1.78	<0.01	1.78	55.6	189.9	134.3	3.4
97	W-097			2.12			4.55						
98	W-098	9.2	Moderate	2.22	1.51	125.8	2.41	<0.01	2.41	75.3	167.9	92.6	2.2
99	W-099			1.83			0.97						
100	W-100	9.2	Strong	1.45	1.30	108.3	0.52	<0.01	0.52	16.3	126.7	110.5	7.8
101	W-101			1.68			0.41						
102	W-102	9.2	Strong	1.39	1.35	112.5	0.03	0.03	<0.01	<0.3	120.0	120.0	N/A
103	W-103	7.6	None	0.17	<0.02	<1.7	1.85	0.03	1.82	56.9	15.2	-41.7	0.3
104	W-104			0.63			<0.01						
105	W-105	8.1	None	0.15	<0.02	<1.7	1.38	0.03	1.35	42.2	10.2	-32.0	0.2
106	W-106			0.67			<0.01						
107	W-107	8.3	None	0.03	<0.02	<1.7	2.26	0.03	2.23	69.7	12.5	-57.2	0.2
108	W-108			0.39			<0.01						
109	W-109	7.8	None	0.06	<0.02	<1.7	3.85	0.04	3.81	119.1	7.2	-111.9	0.1
110	W-110			1.37			<0.01						
111	W-111	9.1	Slight	0.3	0.18	15.0	0.26	0.03	0.23	7.2	32.6	25.4	4.5
112	W-112	9.4	Moderate	2.1	1.95	162.5	0.02	0.01	0.01	0.3	143.7	143.4	459.8
113	W-113	9.3	Moderate	2.11	1.90	158.3	0.1	0.03	0.07	2.2	132.7	130.5	60.7
114	W-114			1			0.15						
115	W-115	9.0	Strong	1.43	1.13	94.2	1.83	0.03	1.80	56.3	123.6	67.4	2.2
116	W-116			0.47			0.01						
117	W-117	9.0	Strong	1.42	1.32	110.0	0.29	0.01	0.28	8.8	131.8	123.1	15.1
118	W-118			0.75			0.17						
119	W-119	9.6	Strong	1.4	1.25	104.2	0.32	<0.01	0.32	10.0	121.1	111.1	12.1
120	W-120			0.58			0.11						
121	W-121	9.0	Moderate	3.47	3.01	250.8	1.31	0.02	1.29	40.3	182.0	141.7	4.5
122	W-122			0.69			0.29						
123	W-123	8.8	Moderate	2.51	1.97	164.2	2.15	0.02	2.13	66.6	185.3	118.7	2.8
124	W-124	8.0	None	<0.02	<0.02	<1.7	0.04	0.03	0.01	0.3	12.0	11.7	38.4
125	W-125	7.5	None	<0.02	<0.02	<1.7	3.04	0.04	3.00	93.8	5.3	-88.5	0.1

S. No.	Sample ID	Paste pH	Fizz Rating	Total Carbon wt. %	Total Inorganic C wt %	CaCO ₃ Equivalents ⁻¹ kg CaCO3/tonne	Total Sulphur wt. %	Sulphate Sulphur wt %	Sulphide Sulphur wt %	AP ⁻³	STD Sobek NP kg CaCO3/tonne	NNP ⁻⁴	NPR ⁻⁵
Units:		pH Units											
Reported Detection Limit:		0.01		0.02	0.02	1.7	0.01	0.01	0.01	0.3	0.5		
126	W-126	8.3	Moderate	1.79	1.64	136.7	0.07	0.03	0.04	1.3	131.0	129.8	104.8
127	W-127	8.1	None	<0.02	<0.02	<1.7	2.39	0.04	2.35	73.4	5.9	-67.5	0.1
128	W-128	8.6	Strong	0.86	0.80	66.7	0.09	<0.01	0.09	2.8	98.3	95.5	35.0
129	W-129	7.8	None	0.05	<0.02	<1.7	0.04	0.03	0.01	0.3	10.3	10.0	33.0
130	W-130	8.5	None	0.08	<0.02	<1.7	0.15	0.03	0.12	3.8	13.7	10.0	3.7
131	W-131	8.9	Strong	1.68	1.57	130.8	0.06	<0.01	0.06	1.9	149.1	147.2	79.5
132	W-132	8.6	Slight	0.61	0.02	1.7	2.91	0.03	2.88	90.0	15.4	-74.6	0.2
133	W-133	8.8	Strong	2.92	2.53	210.8	0.65	0.03	0.62	19.4	218.4	199.0	11.3
134	W-134	8.6	None	0.03	<0.02	<1.7	1.32	0.03	1.29	40.3	14.7	-25.6	0.4
135	W-135	9.4	Moderate	1.99	1.51	125.8	1.76	0.03	1.73	54.1	152.9	98.8	2.8
136	W-136			0.73			0.41						
137	W-137	8.9	Moderate	1.05	0.63	52.5	4.77	0.03	4.74	148.1	98.9	-49.2	0.7
138	W-138			0.33			0.81						
139	W-139	8.5	Moderate	1.56	0.89	74.2	6.62	0.03	6.59	205.9	116.1	-89.8	0.6
140	W-140			0.75			0.45						
141	W-141	9.4	Moderate	1.65	1.50	125.0	0.34	<0.01	0.34	10.6	123.7	113.1	11.6
142	W-142			0.48			1.21						
143	W-143			0.32			0.67						
144	W-144			0.85			3.31						
145	W-145			0.48			0.31						
146	W-146			0.09			2.14						
147	W-147			2.41			0.29						
148	W-148			0.57			1.08						
149	W-149			1.86			0.07						
150	W-150	8.7	None	0.1	<0.02	<1.7	1.86	0.04	1.82	56.9	16.1	-40.8	0.3
151	W-151	8.0	Slight	1.23	0.78	65.0	0.62	0.06	0.56	17.5	67.5	50.0	3.9
152	W-152			0.45			2.48						
153	W-153			0.81			0.48						
154	W-154			0.1			0.79						
155	W-155			2.02			0.19						
156	W-156			0.11			0.64						
157	W-157			2.42			0.25						
158	W-158			0.07			0.45						
159	W-159			2.52			0.28						
160	W-160			0.32			0.45						
161	W-161			2.26			0.1						
162	W-162	8.4	Slight	1.35	0.31	25.8	2.88	0.04	2.84	88.8	40.6	-48.2	0.5
163	W-163	7.8	None	0.36	0.04	3.3	1.46	0.03	1.43	44.7	14.5	-30.2	0.3
164	W-164	8.9	Strong	0.8	0.39	32.5	6.22	0.02	6.20	193.8	93.9	-99.9	0.5
165	W-165	8.6	Moderate	1.48	1.04	86.7	1.25	0.03	1.22	38.1	109.6	71.5	2.9
166	W-166	8.9	Moderate	0.17	0.07	5.8	5.26	0.03	5.23	163.4	32.4	-131.0	0.2
167	W-167	8.7	Strong	0.51	0.41	34.2	0.39	0.03	0.36	11.3	67.6	56.4	6.0
168	W-168	8.9	Strong	1.9	1.68	140.0	1.39	<0.01	1.39	43.4	166.5	123.1	3.8

S. No.	Sample ID	Paste pH	Fizz Rating	Total Carbon wt. %	Total Inorganic C wt %	CaCO ₃ Equivalents ⁻¹ kg CaCO3/tonne	Total Sulphur wt. %	Sulphate Sulphur wt %	Sulphide Sulphur wt %	AP ⁻³	STD Sobek NP kg CaCO3/tonne	NNP ⁻⁴	NPR ⁻⁵
Units:		pH Units											
Reported Detection Limit:		0.01		0.02	0.02	1.7	0.01	0.01	0.01	0.3	0.5		
169	W-169	8.2	Strong	0.4	0.19	15.8	0.78	0.03	0.75	23.4	48.3	24.9	2.1
170	W-170	9.2	Strong	1.69	1.60	133.3	0.32	<0.01	0.32	10.0	156.4	146.4	15.6
171	W-171	8.1	Strong	0.17	<0.02	<1.7	3.2	0.03	3.17	99.1	6.7	-92.4	0.1
172	W-172			0.05			0.86						
173	W-173	7.2	None	0.1	<0.02	<1.7	4.64	0.03	4.61	144.1	16.8	-127.3	0.1
174	W-174			0.14			0.34						
175	W-175			0.17			2.6						
176	W-176			0.1			0.24						
177	W-177			0.35			0.54						
178	W-178			0.14			0.21						
179	W-179	8.4	None	0.08	<0.02	<1.7	0.56	0.03	0.53	16.6	10.1	-6.5	0.6
180	W-180	8.0	None	0.09	<0.02	<1.7	0.48	<0.01	0.48	15.0	4.7	-10.3	0.3
181	W-181			0.09			0.28						
182	W-182			0.06			0.56						
183	W-183			0.4			0.25						
184	W-184			0.04			0.59						
185	W-185			0.09			0.54						
186	W-186			0.04			0.68						
187	W-187			0.29			0.36						
188	W-188			0.17			0.63						
189	W-189			1			0.35						
190	W-190			0.04			0.58						
191	W-191			1.13			0.1						
192	W-192	8.9	Moderate	1.57	1.12	93.3	4.38	0.02	4.36	136.3	118.6	-17.7	0.9
193	W-193			1.11			0.69						
194	W-194	9.1	Moderate	0.42	0.28	23.3	1.12	0.03	1.09	34.1	40.1	6.0	1.2
195	W-195			1.23			0.69						
196	W-196	8.9	Strong	1.79	1.33	110.8	1.7	<0.01	1.70	53.1	144.0	90.9	2.7
197	W-197			0.76			4.37						
198	W-198	8.7	Strong	2.71	2.17	180.8	2.7	<0.01	2.70	84.4	197.3	112.9	2.3
199	W-199	7.9	Strong	1.03	0.84	70.0	1.79	0.02	1.77	55.3	101.1	45.8	1.8
200	W-200	8.8	Strong	2.15	2.02	168.3	0.42	<0.01	0.42	13.1	177.0	163.9	13.5
201	W-201			1.09			1.25						
202	W-202	9.0	Strong	1.59	1.48	123.3	0.12	0.03	0.09	2.8	143.0	140.2	50.8
203	W-203			1.22			0.49						
204	W-204	9.1	Moderate	2.54	2.25	187.5	0.44	0.03	0.41	12.8	175.3	162.5	13.7
205	W-205			0.47			0.27						
206	W-206	9.4	Moderate	1.71	1.42	118.3	0.53	0.03	0.50	15.6	133.4	117.8	8.5
207	W-207	9.0	Moderate	3.14	2.49	207.5	1.51	<0.01	1.51	47.2	162.6	115.4	3.4
208	W-208	9.3	Strong	1.48	1.14	95.0	0.9	<0.01	0.90	28.1	122.8	94.7	4.4
209	W-209	7.2	None	0.23	<0.02	<1.7	6.46	0.03	6.43	200.9	8.9	-192.0	0.0
210	W-210	9.0	Strong	1.3	1.26	105.0	<0.01	0.01	<0.01	<0.3	122.9	122.9	N/A
211	W-211	8.8	Strong	1.07	0.70	58.3	2.7	0.02	2.68	83.8	104.5	20.8	1.2

S. No.	Sample ID	Paste pH	Fizz Rating	Total Carbon wt. %	Total Inorganic C wt %	CaCO ₃ Equivalents ⁻¹ kg CaCO3/tonne	Total Sulphur wt. %	Sulphate Sulphur wt %	Sulphide Sulphur wt %	AP ⁻³	STD Sobek NP	NNP ⁻⁴	NPR ⁻⁵
Units:		pH Units									kg CaCO3/tonne		
Reported Detection Limit:		0.01		0.02	0.02	1.7	0.01	0.01	0.01	0.3	0.5		
212	W-212	8.9	Strong	1.49	1.40	116.7	0.02	0.02	<0.01	<0.3	141.3	141.3	N/A
213	W-213	7.0	None	0.32	0.07	5.8	5.2	0.05	5.15	160.9	17.3	-143.6	0.1
214	W-214	9.0	Strong	1.56	1.45	120.8	0.03	0.03	<0.01	<0.3	143.8	143.8	N/A
215	W-215	9.2	Strong	2.17	1.42	118.3	2.79	0.03	2.76	86.3	162.4	76.2	1.9
216	W-216	8.9	Strong	1.87	1.76	146.7	0.33	0.03	0.30	9.4	164.5	155.1	17.5
217	W-217	9.0	Strong	1.22	0.81	67.5	3.89	0.02	3.87	120.9	105.3	-15.6	0.9
218	W-218	8.2	Strong	0.99	0.57	47.5	4.29	0.03	4.26	133.1	167.5	34.4	1.3
219	W-219	7.7	Slight	1.13	0.03	2.5	3.64	0.04	3.60	112.5	16.8	-95.7	0.1
220	W-220	8.6	Moderate	2.51	1.60	133.3	4.76	0.03	4.73	147.8	160.5	12.7	1.1
221	W-221	9.1	Strong	0.8	0.67	55.8	1.2	0.02	1.18	36.9	75.5	38.6	2.0
222	W-222	8.8	Strong	1.49	1.42	118.3	<0.01	<0.01	<0.01	<0.3	133.5	133.5	N/A
223	W-223	8.9	Strong	0.87	0.75	62.5	0.69	0.03	0.66	20.6	79.1	58.5	3.8
224	W-224	9.0	Strong	2.3	2.23	185.8	0.17	0.03	0.14	4.4	193.9	189.5	44.3
225	W-225	8.4	Strong	0.86	0.44	36.7	1.82	0.02	1.80	56.3	72.3	16.1	1.3
226	W-226	8.9	None	0.32	0.12	10.0	1.56	0.03	1.53	47.8	12.0	-35.8	0.3
227	W-227	7.8	None	0.08	0.03	2.5	0.26	<0.01	0.26	8.1	5.9	-2.2	0.7
228	W-228	9.1	None	0.46	0.12	10.0	2.3	0.03	2.27	70.9	27.0	-43.9	0.4
229	W-229	9.0	Moderate	2.52	2.37	197.5	0.06	0.03	0.03	0.9	155.4	154.5	165.8
230	W-230	9.2	Moderate	2.12	1.93	160.8	0.26	0.03	0.23	7.2	157.2	150.0	21.9
231	W-231	8.9	None	0.21	<0.02	<1.7	0.19	0.03	0.16	5.0	13.2	8.2	2.6
232	W-232	8.7	Moderate	2.02	1.78	148.3	0.82	0.03	0.79	24.7	147.1	122.4	6.0
233	W-233	8.2	None	0.05	<0.02	<1.7	<0.01	<0.01	<0.01	<0.3	14.7	14.7	N/A
234	W-234	8.6	Strong	2.48	2.37	197.5	0.23	0.03	0.20	6.3	203.5	197.3	32.6
235	W-235	8.6	Strong	0.8	0.71	59.2	0.32	0.03	0.29	9.1	83.3	74.2	9.2
236	W-236	8.3	Strong	0.72	0.66	55.0	0.29	0.03	0.26	8.1	86.1	78.0	10.6
237	W-237	9.0	Strong	1.57	1.45	120.8	0.33	0.03	0.30	9.4	142.3	132.9	15.2
238	W-238	8.3	Strong	1.11	0.96	80.0	1.14	0.03	1.11	34.7	121.1	86.4	3.5
239	W-239	9.1	Strong	1.17	1.06	88.3	0.56	0.03	0.53	16.6	122.9	106.3	7.4
240	W-240	9.2	Moderate	2.5	2.23	185.8	0.38	0.03	0.35	10.9	170.0	159.1	15.5
241	W-241	9.5	Moderate	2.38	2.34	195.0	<0.01	0.01	<0.01	<0.3	160.5	160.5	N/A
242	W-242			1.21			0.11						
243	W-243	9.5	Moderate	1.93	1.87	155.8	<0.01	0.01	<0.01	<0.3	148.4	148.4	N/A
244	W-244			1.37			0.08						
245	W-245	9.5	Moderate	2.12	2.07	172.5	<0.01	0.01	<0.01	<0.3	163.5	163.5	N/A
246	W-246			1.97			0.39						
247	W-247	7.9	Moderate	1.54	0.94	78.3	2.99	0.03	2.96	92.5	114.9	22.4	1.2
248	W-248			1.3			<0.01						
249	W-249	8.8	Strong	2.04	1.99	165.8	0.1	0.03	0.07	2.2	178.3	176.1	81.5
250	W-250			1.51			0.01						
251	W-251	8.7	Strong	1.34	1.25	104.2	0.2	0.03	0.17	5.3	125.4	120.1	23.6
252	W-252			1.37			0.03						
253	W-253	8.6	Strong	1.99	0.92	76.7	5.97	0.01	5.96	186.3	163.2	-23.1	0.9
254	W-254	8.4	Strong	0.77	0.72	60.0	0.32	0.03	0.29	9.1	86.4	77.3	9.5

S. No.	Sample ID	Paste pH	Fizz Rating	Total Carbon wt. %	Total Inorganic C wt %	CaCO ₃ Equivalents ⁻¹ kg CaCO ₃ /tonne	Total Sulphur wt. %	Sulphate Sulphur wt %	Sulphide Sulphur wt %	AP ⁻³	STD Sobek NP	NNP ⁻⁴	NPR ⁻⁵
Units:		pH Units									kg CaCO ₃ /tonne		
Reported Detection Limit:		0.01		0.02	0.02	1.7	0.01	0.01	0.01	0.3	0.5		
255	W-255	7.8	Moderate	0.62	0.27	22.5	0.04	0.03	0.01	0.3	33.8	33.5	108.2
256	W-256	9.1	Strong	1.17	1.10	91.7	0.24	<0.01	0.24	7.5	80.1	72.6	10.7
257	W-257	7.9	Moderate	0.94	0.60	50.0	0.1	0.03	0.07	2.2	65.5	63.3	29.9
258	W-258			1.31			<0.01						
259	W-259	8.2	Moderate	0.65	0.37	30.8	0.05	0.02	0.03	0.9	42.3	41.4	45.1
260	W-260			1.36			0.01						
261	W-261	8.6	Strong	1.46	1.42	118.3	<0.01	0.01	<0.01	<0.3	136.7	136.7	N/A
262	W-262	8.9	Strong	2.5	2.15	179.2	1.87	0.04	1.83	57.2	207.3	150.1	3.6
263	W-263	8.2	Moderate	0.94	0.79	65.8	0.92	0.04	0.88	27.5	95.9	68.4	3.5
264	W-264	9.0	Strong	1.53	1.43	119.2	0.13	0.03	0.10	3.1	137.0	133.9	43.8
265	W-265	9.0	Strong	2.56	2.14	178.3	1.42	0.03	1.39	43.4	178.1	134.7	4.1
266	W-266	8.0	None	0.19	<0.02	<1.7	3.11	0.04	3.07	95.9	9.2	-86.7	0.1
267	W-267	9.4	Strong	2.16	1.96	163.3	0.29	0.03	0.26	8.1	149.6	141.5	18.4
268	W-268	8.1	None	<0.02	<0.02	<1.7	7.06	0.04	7.02	219.4	4.7	-214.7	0.0
269	W-269	8.8	Strong	2.96	2.14	178.3	2.67	0.03	2.64	82.5	191.3	108.8	2.3
270	W-270	8.5	None	0.03	<0.02	<1.7	4.06	0.05	4.01	125.3	6.7	-118.6	0.1
271	W-271	9.1	Strong	2	1.73	144.2	0.35	0.03	0.32	10.0	148.9	138.9	14.9
272	W-272	8.5	Strong	0.88	0.49	40.8	4.99	0.03	4.96	155.0	78.8	-76.2	0.5
273	W-273	8.8	Strong	0.98	0.83	69.2	1.75	0.01	1.74	54.4	101.5	47.1	1.9
274	W-274	8.8	Strong	1.37	0.79	65.8	3.31	0.03	3.28	102.5	124.7	22.2	1.2
275	W-275			1.71			<0.01						
276	W-276	8.8	Strong	0.65	0.61	50.8	0.02	0.01	0.01	0.3	88.2	87.9	282.2
277	W-277			1.82			0.05						
278	W-278	8.8	Moderate	2.01	1.31	109.2	3.23	0.01	3.22	100.6	153.1	52.5	1.5
279	W-279			1.86			0.13						
280	W-280	9.0	Moderate	2.02	1.14	95.0	3.42	0.01	3.41	106.6	147.9	41.3	1.4
281	W-281			2.74			0.47						
282	W-282			2.53			0.39						
283	W-283	8.7	Strong	2.19	2.05	170.8	1.04	<0.01	1.04	32.5	181.1	148.6	5.6
284	W-284			1.92			1.35						
285	W-285			2.23			0.03						
286	W-286			2.35			0.25						
287	W-287			2.27			1.84						
288	W-288			2.24			0.29						
289	W-289			1.56			2.6						
290	W-290	9.2	Strong	2.84	2.67	222.5	0.55	0.01	0.54	16.9	201.1	184.2	11.9
291	W-291			2.12			1.07						
292	W-292			2.48			0.1						
293	W-293			2.25			0.03						
294	W-294			3.06			0.09						
295	W-295	8.8	Strong	2.18	2.15	179.2	<0.01	0.01	<0.01	<0.3	184.6	184.6	N/A
296	W-296			3.16			0.51						
297	W-297	8.5	Strong	0.89	0.88	73.3	0.09	0.01	0.08	2.5	93.4	90.9	37.4

S. No.	Sample ID	Paste pH	Fizz Rating	Total Carbon wt. %	Total Inorganic C wt %	CaCO ₃ Equivalents ⁻¹ kg CaCO ₃ /tonne	Total Sulphur wt. %	Sulphate Sulphur wt %	Sulphide Sulphur wt %	AP ⁻³	STD Sobek NP	NNP ⁻⁴	NPR ⁻⁵
Units:		pH Units									kg CaCO ₃ /tonne		
Reported Detection Limit:		0.01		0.02	0.02	1.7	0.01	0.01	0.01	0.3	0.5		
298	W-298			2.38			0.43						
299	W-299	8.5	Moderate	1.16	0.67	55.8	3.29	<0.01	3.29	102.8	86.4	-16.4	0.8
300	W-300			2.3			0.64						
301	W-301	9.0	Moderate	2.61	2.05	170.8	1.8	0.03	1.77	55.3	148.6	93.3	2.7
302	W-302	9.4	Moderate	2.77	2.48	206.7	0.89	0.01	0.88	27.5	181.1	153.6	6.6
303	W-303	8.2	Strong	2.05	1.58	131.7	3.99	<0.01	3.99	124.7	167.0	42.3	1.3
304	W-304	9.1	Moderate	0.43	0.39	32.5	0.03	<0.01	0.03	0.9	68.7	67.8	73.3
305	W-305	8.7	Strong	1.61	1.53	127.5	0.3	0.03	0.27	8.4	144.3	135.9	17.1
306	W-306	9.3	Moderate	1.24	1.12	93.3	0.02	0.02	<0.01	<0.3	85.4	85.4	N/A
307	W-307	8.7	Strong	0.71	0.46	38.3	3.13	0.10	3.03	94.7	70.7	-24.0	0.7
308	W-308	9.2	Moderate	2.01	1.66	138.3	0.52	0.02	0.50	15.6	130.5	114.9	8.4
309	W-309	8.0	Moderate	1.34	1.04	86.7	2.42	<0.01	2.42	75.6	104.0	28.4	1.4
310	W-310	8.8	Moderate	0.79	0.36	30.0	3.49	<0.01	3.49	109.1	56.7	-52.4	0.5
311	W-311	8.1	Strong	1.63	1.39	115.8	1.51	0.03	1.48	46.3	143.8	97.6	3.1
312	W-312	9.0	Moderate	1.95	1.63	135.8	0.43	0.02	0.41	12.8	127.5	114.7	10.0
313	W-313	8.7	Moderate	0.19	<0.02	<1.7	3.21	0.04	3.17	99.1	23.2	-75.9	0.2
314	W-314	8.6	Strong	1.2	0.76	63.3	3.59	0.03	3.56	111.3	107.3	-4.0	1.0
315	W-315			1.36			2.49						
316	W-316			2.69			1.18						
317	W-317			1.35			2.3						
318	W-318			2.04			0.51						
319	W-319			0.97			2.51						
320	W-320			2.3			0.2						
321	W-321			1.12			2.82						
322	W-322			2.61			0.09						
323	W-323			1.34			1.96						
324	W-324	9.1	Strong	2.51	2.31	192.5	0.4	0.03	0.37	11.6	185.4	173.8	16.0
325	W-325	8.4	Moderate	1.49	1.05	87.5	2.11	0.04	2.07	64.7	122.9	58.2	1.9
326	W-326			2.84			0.74						
327	W-327			1.35			1.7						
328	W-328			2.83			0.08						
329	W-329			1.59			3.07						
330	W-330			2.57			0.26						
331	W-331			1.58			1.58						
332	W-332			2.79			0.34						
333	W-333			1.97			2.73						
334	W-334			2.83			0.34						
QUALITY ASSURANCE / QUALITY CONTROL													
Replicates:													
1	W-001			0.14	<0.02	<1.7	2.17						
1 R	W-001			0.14	<0.02	<1.7	2.20						
3	W-003										313.1		
3R	W-003										334.6		
10	W-010	7.9	None					0.03			16.5		

S. No.	Sample ID	Paste pH	Fizz Rating	Total Carbon wt. %	Total Inorganic C wt %	CaCO ₃ Equivalents ⁻¹ kg CaCO ₃ /tonne	Total Sulphur wt. %	Sulphate Sulphur wt %	Sulphide Sulphur wt %	AP ⁻³	STD Sobek NP	NNP ⁻⁴	NPR ⁻⁵
Units:		pH Units									kg CaCO ₃ /tonne		
Reported Detection Limit:		0.01		0.02	0.02	1.7	0.01	0.01	0.01	0.3	0.5		
10 R	W-010	8.0	None					0.03			16.2		
20	W-020	8.7	None					<0.01			8.4		
20 R	W-020	8.6	None					<0.01			8.9		
21	W-021			0.08	<0.02	<1.7	3.39						
21 R	W-021			0.07	<0.02	<1.7	3.37						
30	W-030	7.9	None					0.02			5.3		
30 R	W-030	8.1	None					0.03			5.4		
40	W-040	8.2	None					0.04			13.4		
40 R	W-040	8.1	None					0.04			12.5		
41	W-041			2.06	1.98	165.0	0.08						
41 R	W-041			2.07	1.98	165.0	0.09						
50	W-050	9.1	Moderate					0.02			161.1		
50 R	W-050	9.3	Moderate					0.03			160.2		
60	W-060	8.3	Moderate					0.03			101.0		
60 R	W-060	8.4	Moderate					0.03			103.0		
61	W-061			1.82	1.68	140.0	0.46						
61 R	W-061			1.81	1.68	140.0	0.45						
70	W-070	9.2	Strong					<0.01			127.2		
70 R	W-070	9.4	Strong					<0.01			126.4		
80	W-080	8.8	Moderate					0.03			85.1		
80 R	W-080	8.6	Moderate					0.03			83.4		
81	W-081			0.88	0.70	58.3	0.55						
81 R	W-081			0.85	0.70	58.3	0.55						
90	W-090	8.2	None					0.03			21.8		
90 R	W-090	8.3	None					0.02			21.7		
100	W-100	9.2	Strong					<0.01			126.7		
100 R	W-100	9.1	Strong					<0.01			127.9		
101	W-101			1.68			0.41						
101 R	W-101			1.68			0.44						
102	W-102				1.35	112.5							
102 R	W-102				1.34	111.7							
121	W-121			3.47	3.01	250.8	1.31						
121 R	W-121			3.46	3.00	250.0	1.27						
130	W-130	8.5	None					0.03			13.7		
130 R	W-130	8.7	None					0.03			14.5		
141	W-141				1.50	125.0							
141 R	W-141				1.51	125.8							
150	W-150	8.7	None					0.04			16.1		
150 R	W-150	8.8	None					0.05			17.8		
161	W-161			2.26			0.10						
161 R	W-161			2.25			0.09						
170	W-170	9.2	Strong					<0.01			156.4		
170 R	W-170	9.1	Strong					0.01			155.6		

S. No.	Sample ID	Paste pH	Fizz Rating	Total Carbon wt. %	Total Inorganic C wt %	CaCO ₃ Equivalents ⁻¹ kg CaCO3/tonne	Total Sulphur wt. %	Sulphate Sulphur wt %	Sulphide Sulphur wt %	AP ⁻³	STD Sobek NP	NNP ⁻⁴	NPR ⁻⁵
Units:		pH Units									kg CaCO3/tonne		
Reported Detection Limit:		0.01		0.02	0.02	1.7	0.01	0.01	0.01	0.3	0.5		
180	W-180	8.0	None					<0.01			4.7		
180 R	W-180	8.1	None					<0.01			5.4		
181	W-181			0.09			0.28						
181 R	W-181			0.09			0.29						
192	W-192				1.12	93.3							
192 R	W-192				1.12	93.3							
200	W-200	8.8	Strong					<0.01			177.0		
200 R	W-200	8.6	Strong					0.01			176.7		
201	W-201			1.09			1.25						
201 R	W-201			1.11			1.28						
202	W-202				1.48	123.3							
202 R	W-202				1.48	123.3							
210	W-210	9.0	Strong					0.01			122.9		
210 R	W-210	8.8	Strong					0.01			124.4		
220	W-220	8.6	Moderate					0.03			160.5		
220 R	W-220	8.7	Moderate					0.03			160.5		
221	W-221				0.67	55.8	1.20						
221 R	W-221				0.67	55.8	1.12						
230	W-230	9.2	Moderate					0.03			157.2		
230 R	W-230	9.2	Moderate					0.03			157.2		
240	W-240	9.2	Moderate								170.0		
240 R	W-240	9.2	Moderate								169.8		
241	W-241						<0.01						
241 R	W-241						<0.01						
261	W-261						<0.01						
261 R	W-261						<0.01						
270	W-270	8.5	None					0.05			6.7		
270 R	W-270	8.6	None					0.05			8.2		
280	W-280	9.0	Moderate					0.01			147.9		
280 R	W-280	9.0	Moderate					0.01			147.5		
281	W-281			2.74			0.47						
281 R	W-281			2.73			0.46						
283	W-283				2.05	170.8							
283 R	W-283				2.04	170.0							
290	W-290	9.2	Strong					0.01			201.1		
290 R	W-290	9.1	Strong					0.01			200.7		
310	W-310	8.8	Moderate					<0.01			56.7		
310 R	W-310	8.7	Moderate					<0.01			56.4		
321	W-310			1.12			2.82						
321 R	W-310			1.13			2.76						
324	W-324				2.31	192.5							
324 R	W-324				2.31	192.5							

S. No.	Sample ID	Paste pH	Fizz Rating	Total Carbon wt. %	Total Inorganic C wt %	CaCO ₃ Equivalents ^{*1} kg CaCO ₃ /tonne	Total Sulphur wt. %	Sulphate Sulphur wt %	Sulphide Sulphur wt %	AP ^{*3}	STD Sobek NP	NNP ^{*4}	NPR ^{*5}
<i>Units:</i>		pH Units									kg CaCO ₃ /tonne		
<i>Reported Detection Limit:</i>		0.01		0.02	0.02	1.7	0.01	0.01	0.01	0.3	0.5		
Certified Reference Material (CRM) Analysis:													
Certified Reference Material	KZK-1			KZK-1	KZK-1		KZK-1	RTS-3a			1) KZK-1 (Slight) 2) KZK-1 (Moderate)		
CRM True Value	8.80			0.95 0.92, 0.91, 0.94, 0.92, 0.93, 0.94, 0.94, 0.90, 0.92, 0.94	0.84 0.70, 0.73, 0.70, 0.73, 0.71, 0.73, 0.72, 0.73		0.80 0.79, 0.74, 0.80, 0.80, 0.82, 0.79, 0.78, 0.82, 0.81, 0.78	1.10 1.04, 1.05, 1.10, 1.03			1) 58.6, 59.1, 58.6, 58.8 2) 63.2, 61.7		
Reference Material Results	8.86, 8.91, 8.87												
Tolerance (+/-) or Acceptance Range	0.09			90% - 110%	80% - 120%		90% - 110%	0.99 - 1.21			1) 2.8 2) 5.8		
Method Blank Analysis:													
Method Blank Results				<0.02	<0.02		<0.01	<0.01					
GLOBAL SOP No. / Method:	ARD-004	ARD-005	LECO	HCl leach/ CO ₂ -Coulometer	Calc.	LECO	ARD-013 (Seq. HCl/HNO ₃ leach)	Calc.	ARD-007	Calc.	Calc.		

NOTES:

Acceptance criteria at Global ARD Testing for all CRMs is ±10 % of certified value.

Job No: 21V785801

Date of Analysis: August 13-21, 2021

pH of DI water used: 5.64, 5.62, 5.61, 5.66, 5.72, 5.54

EC of DI water used: 0.72, 0.64, 0.51, 0.77, 0.46

METHODS:

Total Sulphur by Leco.

Total Inorganic Carbon (TIC): HCl leach, evolved gas (CO₂ analysed by CO₂ Coulometer).

Surface Rinse-pH (1 to 107 minus 10 & 33): was conducted on < 2mm, sieved from 1/4" crushed homogenized material. Solid: liquid ration used = 1:1 (i.e. 25-30 g sample: 25-30 mL DI water).

Note: for samples received as pulps (#10, 33, 108-153) - no Rinse-pH was conducted. This is indicate as N/A (Not Applicable) in the report.

ABBREVIATIONS:

R = Rep = Replicate (a replicate is a sub-sample scooped from a single pulp sample bag produced per client sample)

D = Dup = Duplicate (a duplicate is 2nd sub-pulp sample bag produced by processing a split of the original client sample received. A duplicate pulp sample is prepared only at client request)

NP = Neutralization Potential

Calc. = Calculation

NR = Not Received

CALCULATIONS:

*1 CaCO₃ Equivalents: based on TIC

*2 Non-Extractable Sulphur: Total sulphur - (sulphate sulphur + sulphide sulphur)

*3 AP (Acid Potential): Sulphide-Sulphur x 31.25

*4 NNP (Net Neutralization Potential): NP - AP

*5 NPR (Neutralization Potential Ratio): NP/AP

REFERENCES:

Surface Rinse-pH: MEND Report 1.20.1, Version 0 (2009).

Sample Preparation: ASTM E877-08; MEND Report 1.20.1, Version 0 (2009)

ABA: Dried below 40°C (if received wet), jaw-crushed if necessary, split by riffing and pulverized to 85% passing 200 mesh (75 µm).

STD Sobek NP / Paste pH / Fizz Rating: Sobek, A.A., Schuller, W.A., Freeman, J.R. and Smith, R.M.; US EPA-600/2-78-054 (1978).

Sulphur Speciation: Modified ASTM D2492-02 Method. The S extracted is determined by analysing the extract for SO₄ using UV-Vis Spectrophotometer (STD Method 4500-SO42- E).

Peroxide Siderite Correction for Sobek NP: Skousen, J., Renton, J., Brown, H., Evans, P., Leavitt, B., Brady, K., Cohen, L. and Ziemkiewicz, P. (1997), Neutralization Potential of Overburden Samples containing Siderite, Journal of Environmental Quality, v26, n3, p673-681.



GLOBAL PROJECT NO: 1956 (B8)

CLIENT: First Mining Gold Corp.

PROJECT NAME: Springpole

PROJECT NO: ONS2104

REPORT VERSION: 3

		Method	IMS-130																											
S. No.	Sample ID		Silver	Aluminum	Arsenic	Gold	Boron	Barium	Beryllium	Bismuth	Calcium	Cadmium	Cerium	Cobalt	Chromium	Cesium	Copper	Iron	Gallium	Germanium	Hafnium	Mercury	Indium	Potassium	Lanthanum	Lithium	Magnesium	Manganese		
			(Ag)	(Al)	(As)	(Au)	(B)	(Ba)	(Be)	(Bi)	(Ca)	(Cd)	(Ce)	(Co)	(Cr)	(Cs)	(Cu)	(Fe)	(Ga)	(Ge)	(Hf)	(Hg)	(In)	(K)	(La)	(Li)	(Mg)	(Mn)		
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
		MDL	0.01	0.1	0.005	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5			
		Sample Type																												
1	W-001	Pulp	2.96	1.2	13.4	1.0466	11	106	0.60	0.06	0.33	0.16	26.47	30.4	48	7.21	50.6	5.26	3.67	0.09	1.12	0.24	0.008	0.86	11.8	59.7	0.88	488		
2	W-002	Pulp	3.39	1.8	19.1	0.8078	<10	67	1.12	0.30	0.29	0.1	58.82	28.6	81	21.96	152.5	5.73	10.59	0.21	0.94	0.05	0.031	1.92	33.1	278.1	2.36	224		
3	W-003	Pulp	4.59	1.7	30.8	0.3404	<10	113	0.48	0.89	13.11	7.41	477.66	11.8	33	4.94	66.5	2.91	6.60	0.36	1.84	1.06	0.016	1.98	324.7	66.3	1.31	2041		
4	W-004	Pulp	8.79	2.0	66.2	0.5584	<10	34	1.46	4.05	0.30	2.94	68.31	31.0	68	14.05	2028.1	6.20	7.15	0.26	1.29	0.10	0.057	1.91	39.6	478.2	2.58	129		
5	W-005	Pulp	1.39	0.9	23.1	0.2714	11	391	0.54	0.25	0.83	0.44	84.26	6.2	47	9.66	14.3	1.70	5.40	0.16	2.61	0.06	0.011	0.91	48.2	55.4	0.99	253		
6	W-006	Pulp	4.36	0.4	29.0	0.4917	<10	326	0.45	0.43	1.25	14.62	80.29	8.3	58	0.20	57.0	0.93	1.61	0.10	1.09	0.17	0.005	0.22	40.3	3.3	0.04	176		
7	W-007	Pulp	3.02	3.0	46.0	0.4448	16	115	1.52	0.04	0.53	0.26	41.18	32.5	70	71.72	80.2	6.33	10.73	0.18	0.93	0.13	0.023	2.40	19.0	90.0	3.11	265		
8	W-008	Pulp	3.96	0.7	27.9	0.8605	<10	248	0.71	0.63	0.04	0.26	297.91	10.1	36	2.83	46.4	1.37	4.12	0.18	2.79	0.14	0.006	0.61	192.1	28.8	0.62	45		
9	W-009	Pulp	3.34	1.7	15.7	0.8385	16	109	1.06	0.04	0.40	0.29	38.61	39.7	57	17.72	91.9	7.73	5.25	0.16	0.86	0.22	0.010	1.35	20.9	112.1	1.59	5139		
10	W-010	Pulp	1.01	2.5	16.0	0.1786	<10	158	1.25	0.13	0.51	1.14	67.45	29.8	102	34.07	104.8	6.44	10.31	0.17	0.47	0.21	0.021	1.89	39.7	70.3	2.21	339		
11	W-011	Pulp	3.77	0.3	22.1	0.3327	<10	364	0.37	0.62	0.07	0.03	58.32	4.3	35	0.18	61.1	1.05	1.30	0.10	1.93	0.39	<0.005	0.20	25.3	2.6	0.02	21		
12	W-012	Pulp	3.92	1.3	15.8	1.1779	12	27	1.20	0.16	0.24	0.24	61.7	31.5	58	11.85	131.4	6.82	5.45	0.22	1.62	0.58	0.013	1.47	36.8	421.4	1.81	87		
13	W-013	Pulp	5.55	2.5	115.1	1.3304	16	44	1.13	0.08	0.24	0.09	38.83	39.6	75	16.79	101.7	6.47	10.22	0.16	0.78	0.30	0.021	1.46	18.0	93.1	1.79	141		
14	W-014	Pulp	4.87	2.5	27.4	1.226	16	32	1.79	0.21	0.34	0.24	108.96	36.0	78	19.47	200.8	7.43	7.81	0.28	1.18	0.28	0.011	2.26	58.0	558.7	3.2	288		
15	W-015	Pulp	4.58	2.9	37.5	1.6273	13	34	1.30	0.07	0.31	0.18	80.45	35.7	88	31.08	106.8	7.63	12.34	0.28	1.43	0.15	0.025	2.50	35.2	425.3	3.33	445		
16	W-016	Pulp	1.65	0.9	54.2	2.8265	11	94	0.78	0.74	3.18	0.42	160.74	7.0	36	6.71	13.0	2.34	5.20	0.24	4.25	0.11	0.012	0.87	74.3	16.6	1.1	655		
17	W-017	Pulp	4.65	0.9	15.5	1.3982	<10	387	0.81	0.33	0.11	0.18	56.26	4.0	47	4.61	24.8	1.15	4.25	0.12	1.84	0.07	<0.005	0.63	33.6	103.4	0.68	73		
18	W-018	Pulp	1.17	0.4	39.4	0.2039	<10	81	0.33	0.36	0.09	3	53.34	16.7	26	0.19	55.3	2.28	1.54	0.08	1.09	0.40	<0.005	0.24	26.5	2.4	0.03	15		
19	W-019	Pulp	4.58	0.6	59.9	0.7342	<10	38	0.53	0.54	0.03	4.4	100.21	21.7	51	0.92	193.1	3.84	2.28	0.13	1.37	0.78	0.063	0.49	40.8	20.9	0.48	28		
20	W-020	Pulp	1.83	1.1	73.7	0.1753	<10	56	0.54	1.12	0.09	0.31	96.13	16.0	54	6.01	56.4	3.14	5.17	0.14	1.97	0.50	0.015	1.17	59.6	35.6	1.5	52		
21	W-021	Pulp	6.46	1.1	29.0	1.0604	11	66	0.86	0.34	0.05	0.33	66.78	21.4	49	3.94	100.8	3.35	4.20	0.14	2.21	0.25	0.010	0.91	31.6	84.4	1.02	62		
22	W-022	Pulp	0.67	2.0	36.4	0.4728	13	85	0.94	0.08	0.38	0.02	47.04	41.6	44	6.06	90.8	6.55	5.73	0.11	0.77	0.03	0.009	0.70	21.9	29.2	0.76	25		
23	W-023	Pulp	1.06	3.1	23.2	0.6834	12	379	1.67	0.10	0.60	0.14	33.4	28.5	72	30.03	128.0	4.93	8.56	0.22	0.56	0.11	0.011	2.18	16.1	98.0	2.82	181		
24	W-024	Pulp	0.17	0.7	28.2	0.0169	<10	175	0.63	0.25	4.44	0.06	113.24	5.8	24	7.42	12.8	1.71	3.31	0.17	2.71	0.13	0.006	0.62	52.5	9.0	0.81	1281		
25	W-025	Pulp	6.73	3.4	14.5	1.5063	<10	175	2.18	0.35	0.53	0.12	92.09	30.7	82	28.74	199.9	5.61	10.98	0.28	1.10	0.25	0.017	2.40	54.4	212.2	3.16	198		
26	W-026	Pulp	4.33	2.3	8.7	1.3713	<10	133	0.89	0.06	0.37	0.1	50.75	29.9	65	29.22	85.0	5.59	7.31	0.23	0.64	0.08	0.009	1.69	26.9	52.5	1.96	146		
27	W-027	Pulp	0.17	6.0	26.8	0.0526	<10	87	1.77	0.09	0.26	0.02	12.75	26.3	55	70.08	11.5	5.75	17.52	0.33	0.55	0.02	0.012	5.04	5.8	234.2	8.18	474		
28	W-028	Pulp	2.32	0.8	17.9	1.0265	<10	255	1.40	0.69	0.08	0.03	107.88	0.8	30	2.31	62.7	1.39	3.85	0.21	2.37	0.14	0.006	0.61	61.1	32.0	0.78	164		
29	W-029	Pulp	1.61	1.4	56.2	0.1931	11	139	1.01	0.89	0.38	0.75	460.77	16.1	27	7.09	16.7	2.44	7.14	0.32	4.60	0.13	0.012	1.42	323.7	66.0	1.85	93		
30	W-030	Pulp	4.97	1.0	51.1	0.7599	<10	89	0.57	0.28	0.06	0.38	64.33	12.9	38	3.70	74.6	2.63	5.17	0.19	2.05	0.26	0.013	0.82	30.8	31.9	1	43		
31	W-031	Pulp	2.63	2.0	109.1	0.3204	14	147	2.46	0.60	1.86	7.72	>500	17.2	26	9.85	29.3	2.67	26.69	1.46	2.74	0.55	0.017	1.97	4268.8	129.6	2.94	789		
32	W-032	Pulp	0.97	0.7	146.3	0.454	<10	45	0.36	0.06	3.42	0.33	40.46	28.0	42	3.84	55.7	4.94	2.45	0.11	1.02	0.06	0.007	0.60	23.8	11.3	0.88	842		
33	W-033	Pulp	0.11	3.3	7.0	0.0043	<10	71	<0.05	<0.01	2.65	0.17	5.56	34.4	171	1.10	72.5	4.99	7.92	0.14	0.11	<0.005	<0.005	0.22	2.4	13.5	3.14	726		
34	W-034	Pulp	0.10	0.3	14.3	0.0113	<10	31	0.30	0.03	4.39	0.08	42.3	23.3	27	0.66	65.8	5.18	1.36	0.08	0.52	0.02	0.006	0.21	18.7	3.1	1.29	1324		
35	W-035	Pulp	2.39	0.3	34.2	0.2369	<10	184	0.19	0.21	0.07	0.08	59.53	4.1	24	0.13	15.8	1.13	1.14	0.06	1.53	0.10	<0.005	0.20	34.1	1.0	0.02	14		
36	W-036	Pulp	4.56	0.4	13.1	0.2576	<10	90	0.39	2.43	0.22	2.89	415.2	6.6	45	1.72	104.7	1.52	3.25	0.20	2.04	0.33	0.022	0.41	276.7	61.3	0.37	46		
37	W-037	Pulp	0.18	0.4	44.8	0.0154	<10	370	0.35	0.64	3.82	0.21	150.59	3.4	23	0.87	70.4	0.92	2.10	0.12	2.34	0.09	<0.005	0.31	101.2	8.4	0.12	564		
38	W-038	Pulp	1.93	0.6	62.4	0.1172	10	82	0.42	0.47	4.12	1.55	31.52	13.3	28	3.54	70.4	2.97	2.51	0.08	2.01	0.32	0.014	0.51	13.7	8.3	0.88	1113		
39	W-039	Pulp	0.02	0.6	13.3	0.0028	<10	969	0.32	0.03	3.37	0.08	73.67	20.7	18	4.08	34.6	3.19	3.07	0.10	0.65	0.02	0.007	0.46	32.3	6.6	1.57	1165		

CERTIFICATE OF ANALYSIS • METALS RESULTS BY AQUA REGIA DIGEST & ICP-MS ANALYSIS ON SOLIDS (Code IMS-130)

PAGE: 4b of 9
GLOBAL PROJECT NO: 1956 (B8)
CLIENT: First Mining Gold Corp.
PROJECT NAME: Springpole
PROJECT NO: ONS2104

S. No.	Sample ID	Method Analyte Unit MDL Sample Ty	Molybdenum (Mo) ppm 0.05	Sodium (Na) % 0.01	Niobium (Nb) ppm 0.05	Nickel (Ni) ppm 0.2	Phosphorous (P) ppm 10	Lead (Pb) ppm 0.2	Rubidium (Rb) ppm 0.1	Rhenium (Re) ppm 0.001	Sulphur (S) % 0.01	Antimony (Sb) ppm 0.05	Scandium (Sc) ppm 0.1	Selenium (Se) ppm 0.2	Tin (Sn) ppm 0.2	Strontium (Sr) ppm 0.2	Tantalum (Ta) ppm 0.01	Tellurium (Te) ppm 0.01	Thorium (Th) ppm 0.2	Titanium (Ti) % 0.005	Thallium (Tl) ppm 0.02	Uranium (U) ppm 0.05	Vandium (V) ppm 1	Tungsten (W) ppm 0.05	Yttrium (Y) ppm 0.05	Zinc (Zn) ppm 2	Zirconium (Zr) ppm 0.5
1	W-001	Pulp	19.11	0.04	<0.05	40.8	1091	6.1	96.1	0.041	2.06	0.92	3.1	2.7	0.2	40.5	0.02	6.1	1.5	0.055	1.39	1.04	48	0.55	7.35	57	41.7
2	W-002	Pulp	56.50	0.07	0.07	34.4	1038	23.1	327.2	0.012	4.13	0.90	10.9	3.3	0.3	73.9	0.01	5.46	1.2	0.146	3.45	1.94	115	0.53	8.02	96	37.7
3	W-003	Pulp	58.51	0.03	0.16	19.8	499	1032.7	150.7	0.012	2.27	3.26	4.2	3.3	<0.2	8225.9	0.04	5.71	3.7	0.044	1.65	8.64	40	2.06	15.18	1285	80.3
4	W-004	Pulp	477.24	0.03	0.06	46.3	888	682.1	276.8	0.214	5.77	5.38	5.7	12.9	<0.2	82.5	<0.01	15.29	1	0.083	2.3	3.95	28	1.03	13.32	321	55.4
5	W-005	Pulp	31.81	0.03	0.16	9.6	1448	105.0	131.7	0.004	1.00	1.24	2.1	1	0.5	315	<0.01	1.43	6.7	0.053	1.99	4	28	0.78	10.68	167	121.8
6	W-006	Pulp	67.72	0.01	0.09	7.0	540	36.2	12.3	0.004	0.92	2.94	0.8	1.2	0.3	337.2	<0.01	3.94	9.3	<0.005	0.28	12.38	6	0.32	10.73	112	63.0
7	W-007	Pulp	10.56	0.04	<0.05	42.0	1163	10.3	281.5	0.015	2.97	0.68	9.8	1.7	0.3	58.1	<0.01	4.06	1.9	0.245	5.7	1.52	111	0.41	9.09	220	38.4
8	W-008	Pulp	116.59	0.01	0.34	11.6	318	63.1	74.8	0.017	1.23	2.41	0.5	1.9	0.2	300.4	<0.01	4.71	12	0.013	1.19	6.8	11	1.10	9.62	71	134.0
9	W-009	Pulp	61.98	0.03	<0.05	46.9	999	13.2	172.8	0.016	2.32	0.81	3.7	4.4	<0.2	66.8	<0.01	9.01	1.4	0.109	2.51	1.21	59	0.50	9.34	167	32.5
10	W-010	Pulp	74.01	0.05	<0.05	79.7	1063	63.0	199.3	0.043	0.88	0.47	7.7	1.2	0.3	115.7	<0.01	1.64	2.1	0.244	3.32	1.35	116	0.38	7.64	273	22.3
11	W-011	Pulp	8.18	0.03	0.16	4.2	230	24.5	10.6	<0.001	1.02	1.15	0.3	2.9	0.2	259.8	<0.01	2.35	10.7	<0.005	0.16	5.04	3	0.37	10.96	6	97.0
12	W-012	Pulp	348.25	0.02	0.07	48.7	1001	33.4	203.8	0.166	7.07	0.88	5.2	7.7	0.2	33.1	<0.01	12.21	1.3	0.05	1.91	2.59	29	2.46	10.80	79	70.8
13	W-013	Pulp	32.64	0.06	<0.05	44.9	905	9.5	236.3	0.01	4.78	5.26	8.6	2.7	0.3	52.4	<0.01	8.08	1.2	0.125	5.43	1.16	104	1.23	6.75	120	30.3
14	W-014	Pulp	56.89	0.05	0.05	53.4	817	39.2	295.3	0.034	6.52	0.78	5.4	8.3	<0.2	72.4	<0.01	12.22	1.5	0.117	2.83	2.62	47	1.01	11.95	144	48.6
15	W-015	Pulp	28.25	0.02	0.11	60.4	1231	20.2	326.3	0.029	5.80	1.05	9.2	5.9	0.5	34.3	<0.01	10.08	2.6	0.214	4.42	2.37	94	1.69	15.96	152	58.9
16	W-016	Pulp	22.00	0.01	0.13	19.8	1407	34.6	111.1	<0.001	1.12	2.38	1.6	0.9	0.3	486.6	<0.01	1.46	23.6	0.049	2.06	7.84	25	2.23	19.41	82	221.2
17	W-017	Pulp	82.86	0.04	0.19	6.7	230	30.9	93.3	0.135	0.94	0.99	0.3	1.9	<0.2	374.2	<0.01	5.11	4.6	0.025	1.16	4.04	12	4.97	4.43	97	79.0
18	W-018	Pulp	44.25	<0.01	<0.05	16.4	327	25.4	13.2	0.002	2.51	3.18	0.9	0.3	0.2	315.6	<0.01	0.46	3.6	<0.005	0.27	5.45	9	0.57	8.06	98	49.4
19	W-019	Pulp	277.64	<0.01	<0.05	25.8	389	247.7	46.6	0.18	4.23	27.27	2.3	5.4	0.4	88	0.01	7.78	3.7	0.006	0.63	3.65	12	0.65	12.53	393	59.2
20	W-020	Pulp	161.90	0.01	0.07	27.6	130	147.7	148.1	0.004	2.79	2.76	2.8	1.8	0.2	363.5	<0.01	3.05	3.4	0.039	2.12	5.94	41	1.12	16.19	194	88.4
21	W-021	Pulp	114.74	0.01	0.12	25.5	462	51.3	106.9	0.025	3.21	4.32	3.1	4.4	0.4	163.1	<0.01	7.2	6.6	0.035	1.59	4.25	28	1.12	14.09	69	101.4
22	W-022	Pulp	6.73	0.01	<0.05	43.4	1544	5.8	79.6	0.002	1.49	0.61	3.7	0.6	<0.2	41.5	<0.01	1.19	2.1	0.062	1.49	0.69	91	0.36	6.73	100	30.9
23	W-023	Pulp	7.21	0.03	<0.05	67.7	1293	10.6	298.5	0.015	0.88	0.64	5.2	1.6	<0.2	92.3	<0.01	3.62	1.7	0.217	5.51	1.76	73	0.54	7.31	86	28.2
24	W-024	Pulp	2.44	0.02	0.21	9.3	894	43.7	72.2	<0.001	0.58	2.30	0.9	<0.2	<0.2	870.6	<0.01	0.18	15.6	0.037	1.44	4.79	14	0.51	13.12	49	133.7
25	W-025	Pulp	34.79	0.02	<0.05	74.9	1121	44.2	317.4	0.138	2.19	0.86	7.2	4.9	0.6	84.6	<0.01	8.61	2.5	0.236	4.48	3.13	105	0.45	11.54	126	43.7
26	W-026	Pulp	24.67	0.02	<0.05	58.1	1040	12.0	177.1	0.021	2.45	0.46	4.1	3.1	<0.2	60.1	<0.01	5.51	1.9	0.218	2.81	0.87	70	0.41	6.30	69	27.6
27	W-027	Pulp	8.39	0.02	<0.05	43.1	1117	4.1	647.2	0.002	0.22	0.27	11	0.3	0.3	20.8	<0.01	0.24	0.7	0.445	11.31	0.3	149	0.22	3.79	87	22.5
28	W-028	Pulp	29.73	0.01	0.39	5.8	343	161.5	74.5	0.003	0.03	17.92	0.6	0.4	0.3	277.5	<0.01	6.16	11.5	0.015	1.16	6.83	14	11.50	8.11	93	112.2
29	W-029	Pulp	261.83	0.01	0.23	38.1	1828	225.6	146.0	0.031	1.70	3.81	1.9	0.7	0.3	96.2	<0.01	1.88	25.9	0.041	3.33	16.38	28	2.27	22.58	189	225.4
30	W-030	Pulp	33.64	0.01	<0.05	18.0	374	25.8	105.5	0.001	2.42	2.65	2.8	2.1	0.3	297.2	<0.01	5.59	5.1	0.024	1.77	6.35	44	0.72	8.15	79	87.6
31	W-031	Pulp	302.23	0.02	0.31	33.6	1076	450.0	203.4	0.016	1.88	7.71	5	1.4	0.4	108.9	<0.01	2.14	15.4	0.03	3.72	38.02	36	1.69	24.95	837	136.6
32	W-032	Pulp	22.10	0.02	<0.05	54.6	858	10.0	66.9	0.001	4.18	4.05	2.4	1.9	<0.2	92.3	<0.01	2.73	1.3	0.05	1.52	1.07	26	2.23	6.84	88	47.2
33	W-033	Pulp	0.45	0.02	<0.05	75.5	442	2.3	8.1	<0.001	0.09	0.25	2.2	0.2	<0.2	26	<0.01	0.03	0.4	0.159	0.07	0.1	55	0.08	3.03	91	4.8
34	W-034	Pulp	1.49	0.02	<0.05	22.1	909	4.5	10.4	<0.001	0.49	0.36	1.8	<0.2	<0.2	174.8	<0.01	0.16	1.7	<0.005	0.15	0.29	34	0.32	6.08	48	28.4
35	W-035	Pulp	28.42	<0.01	<0.05	5.2	90	12.1	9.8	0.001	1.23	1.61	0.6	0.4	0.3	171.4	<0.01	1.67	4.2	<0.005	0.17	5.25	5	0.58	9.81	8	73.2
36	W-036	Pulp	976.65	0.03	0.57	9.9	610	393.2	48.9	0.365	1.64	1.90	1.2	5.3	<0.2	498.3	0.02	5.65	11.8	0.007	0.68	9.64	9	2.94	10.92	420	109.0
37	W-037	Pulp	26.07	0.03	0.11	1.9	342	77.0	19.8	0.002	0.87	2.68	0.2	3	<0.2	510.1	<0.01	0.63	10.1	0.006	0.34	6.99	3	0.31	8.26	67	122.1
38	W-038	Pulp	5.51	0.03	<0.05	18.7	508	581.9	52.4	<0.001	2.56	17.10	1.4	0.7	<0.2	961.4	<0.01	1.81	3.2	0.026	0.84	19.44	15	0.42	10.10	332	89.2
39	W-039	Pulp	0.17	0.04	<0.05	35.0	1357	4.8	36.9	<0.001	0.23	0.87	1.6	<0.2	<0.2	286.1	<0.01	0.02	4.9	0.023	0.63	1.48	19	0.29	7.12	67	29.6

S. No.	Sample ID	Method Analyte Unit MDL Sample Type	IMS-130																										
			Silver (Ag) ppm 0.01	Aluminum (Al) % 0.01	Arsenic (As) ppm 0.1	Gold (Au) ppm 0.005	Boron (B) ppm 10	Barium (Ba) ppm 10	Beryllium (Be) ppm 0.05	Bismuth (Bi) ppm 0.01	Calcium (Ca) % 0.01	Cadmium (Cd) ppm 0.01	Cerium (Ce) ppm 0.02	Cobalt (Co) ppm 0.1	Chromium (Cr) ppm 1	Cesium (Cs) ppm 0.05	Copper (Cu) ppm 0.2	Iron (Fe) % 0.01	Gallium (Ga) ppm 0.05	Germanium (Ge) ppm 0.05	Hafnium (Hf) ppm 0.02	Mercury (Hg) ppm 0.01	Indium (In) ppm 0.005	Potassium (K) % 0.01	Lanthanum (La) ppm 0.2	Lithium (Li) ppm 0.1	Magnesium (Mg) % 0.01	Manganese (Mn) ppm 5	
84	W-084	Pulp	1.02	1.0	14.7	0.3575	<10	63	0.37	0.05	4.23	0.12	40.97	26.8	53	10.84	58.5	6.38	4.23	0.10	1.09	0.02	0.009	0.81	17.4	15.0	1.79	1103	
85	W-085	Pulp																											
86	W-086	Pulp	4.25	1.4	9.2	0.3557	<10	73	0.91	0.74	2.31	0.26	64.2	31.2	53	8.11	121.1	6.15	6.55	0.17	1.22	0.03	0.017	1.40	36.8	47.0	1.67	1254	
87	W-087	Pulp																											
88	W-088	Pulp	2.43	2.1	35.6	0.295	<10	117	1.15	0.26	0.41	0.3	67.76	36.0	86	18.76	111.9	5.82	6.97	0.14	0.97	0.11	0.013	1.41	38.3	70.7	1.66	258	
89	W-089	Pulp																											
90	W-090	Pulp	0.59	2.3	12.1	0.0322	<10	139	0.92	0.08	0.53	0.15	44.71	38.3	75	23.62	79.2	6.69	6.61	0.17	0.94	0.02	0.010	1.99	21.0	74.3	2.21	443	
91	W-091	Pulp	0.32	3.0	144.4	0.1049	<10	71	0.29	0.02	5.29	0.07	77.93	57.8	153	13.26	364.6	5.92	8.05	0.15	0.38	0.03	0.019	0.45	38.0	46.1	3.01	853	
92	W-092	Pulp	0.12	1.7	45.1	0.1123	<10	64	0.84	0.03	5.22	0.08	19.56	47.4	209	43.47	118.7	6.20	6.71	0.13	0.42	0.01	0.028	1.43	8.7	38.1	3.75	1065	
93	W-093	Pulp																											
94	W-094	Pulp	0.04	3.0	4.9	0.0011	<10	29	0.51	<0.01	5.75	0.08	26.79	34.2	40	1.07	85.0	6.34	11.57	0.11	0.50	0.01	0.032	0.07	10.7	64.4	2.36	994	
95	W-095	Pulp																											
96	W-096	Pulp	0.54	1.4	53.0	0.0733	<10	93	0.39	0.07	5.13	0.21	33.92	44.2	71	28.53	112.8	7.49	4.04	0.08	0.86	0.02	0.013	1.24	26.4	33.5	3.04	1483	
97	W-097	Pulp																											
98	W-098	Pulp	0.48	0.8	52.8	0.1646	<10	65	0.33	0.04	4.35	0.13	38.54	30.7	41	7.51	32.6	5.52	2.63	0.09	1.04	0.02	0.008	0.66	17.0	14.6	1.7	1334	
99	W-099	Pulp																											
100	W-100	Pulp	0.20	0.4	27.3	0.1434	<10	135	0.49	0.45	4.77	0.36	66.71	6.2	12	3.06	20.4	0.92	1.52	0.09	1.03	0.21	<0.005	0.33	30.5	7.4	0.18	749	
101	W-101	Pulp																											
102	W-102	Pulp	0.04	0.6	13.1	0.003	<10	268	0.92	0.09	4.08	0.04	81.79	4.5	19	8.25	15.9	1.00	2.30	0.10	2.27	0.03	<0.005	0.55	36.2	16.8	0.63	516	
103	W-103	Pulp	1.35	1.7	15.5	0.2016	<10	114	1.26	0.10	0.58	0.21	47.27	45.8	77	12.46	95.8	6.09	5.35	0.11	0.57	0.05	0.008	0.79	22.2	45.1	1.42	343	
104	W-104	Pulp																											
105	W-105	Pulp	0.48	0.9	11.3	0.0484	<10	46	0.68	0.05	0.29	0.14	43.94	36.4	91	8.12	66.6	7.01	4.33	0.10	0.72	0.01	0.008	0.67	22.1	26.7	0.65	1384	
106	W-106	Pulp																											
107	W-107	Pulp	1.39	1.0	43.6	0.337	<10	73	0.56	0.43	0.34	0.35	89.33	17.4	36	6.25	57.4	2.73	3.75	0.12	1.72	0.08	0.006	0.86	45.5	24.5	0.85	109	
108	W-108	Pulp																											
109	W-109	Pulp	1.95	1.1	37.1	0.2715	<10	47	0.94	0.84	0.15	1.14	351.06	17.5	48	11.29	46.0	3.33	5.40	0.28	1.75	0.16	0.010	1.16	197.2	95.2	1.44	58	
110	W-110	Pulp																											
111	W-111	Pulp	0.54	2.0	6.0	0.0376	<10	146	0.70	<0.01	0.65	0.16	43.35	29.8	106	30.22	87.1	5.94	7.79	0.15	0.61	0.01	0.014	1.64	19.7	67.4	2	713	
112	W-112	Pulp	0.08	0.7	3.0	0.0126	<10	35	0.41	<0.01	3.48	0.08	32.36	23.8	51	0.71	35.6	5.53	3.10	0.09	0.51	0.01	0.010	0.17	13.3	9.4	1.64	1256	
113	W-113	Pulp	0.10	0.7	152.2	0.0032	<10	64	0.45	0.02	3.73	0.06	52.9	19.3	24	8.46	48.6	4.66	2.42	0.11	0.62	0.05	0.009	0.54	22.7	5.2	0.95	1056	
114	W-114	Pulp																											
115	W-115	Pulp	1.60	0.7	10.7	0.1172	<10	179	0.61	0.43	3.64	0.16	73.17	17.7	39	3.06	50.5	3.29	3.46	0.12	1.77	0.01	0.010	0.64	35.6	19.0	1.06	1260	
116	W-116	Pulp																											
117	W-117	Pulp	0.50	2.1	9.8	0.0547	<10	18	0.45	0.02	4.24	0.18	34.21	28.2	62	1.10	67.3	5.90	8.43	0.07	0.51	0.02	0.014	0.12	14.2	26.8	2.1	709	
118	W-118	Pulp																											
119	W-119	Pulp	0.12	0.4	28.2	0.0068	<10	139	0.63	0.50	3.91	0.13	69.51	5.6	23	3.02	17.4	1.16	1.97	0.10	1.64	0.03	<0.005	0.35	30.0	8.7	0.56	595	
120	W-120	Pulp																											
121	W-121	Pulp	0.45	1.0	96.6	0.0587	<10	88	0.46	0.26	5.93	0.13	115.59	30.0	33	22.12	68.9	5.52	3.15	0.10	1.14	0.02	0.013	0.89	77.7	14.1	2.55	1566	
122	W-122	Pulp																											
123	W-123	Pulp	11.30	1.3	612.0	0.1018	<10	139	0.66	0.30	4.86	1.09	43.45	28.8	44	27.23	1258.7	4.84	4.34	0.11	1.29	1.58	0.010	1.17	21.1	30.1	2.65	2209	
124	W-124	Pulp	0.10	3.0	3.6	0.0042	<10	33	0.37	0.01	0.27	0.04	32.15	32.6	101	0.58	71.9	5.97	10.29	0.08	0.35	0.01	0.022	0.08	13.4	43.6	2.15	360	
125	W-125	Pulp	0.65	1.1	70.4	0.1281	<10	59	0.73	0.56	0.05	0.94	214.24	20.8	35	7.52	43.4	3.29	4.31	0.17	2.10	0.09	0.006	1.13	129.7	72.2	1.17	52	
126	W-126	Pulp	0.20	1.5	6.3	0.0053	<10	33	0.52	<0.01	2.80	0.1	42.87	32.5	70	5.77	69.1	5.55	4.81	0.08	0.52	0.01	0.010	0.31	19.7	25.7	2.11	1579	
127	W-127	Pulp	2.33	1.1	60.3	0.3107	<10	66	0.69	0.20	0.09	0.51	124.42	15.5	42	10.12	39.4	2.82	4.87	0.13	2.43	0.08	0.013	1.34	78.1	111.9	1.53	77	

S. No.	Sample ID	Method Analyte Unit MDL Sample Ty	Molybdenum (Mo) ppm 0.05	Sodium (Na) % 0.01	Niobium (Nb) ppm 0.05	Nickel (Ni) ppm 0.2	Phosphorous (P) ppm 10	Lead (Pb) ppm 0.2	Rubidium (Rb) ppm 0.1	Rhenium (Re) ppm 0.001	Sulphur (S) % 0.01	Antimony (Sb) ppm 0.05	Scandium (Sc) ppm 0.1	Selenium (Se) ppm 0.2	Tin (Sn) ppm 0.2	Strontium (Sr) ppm 0.2	Tantalum (Ta) ppm 0.01	Tellurium (Te) ppm 0.01	Thorium (Th) ppm 0.2	Titanium (Ti) % 0.005	Thallium (Tl) ppm 0.02	Uranium (U) ppm 0.05	Vandium (V) ppm 1	Tungsten (W) ppm 0.05	Yttrium (Y) ppm 0.05	Zinc (Zn) ppm 2	Zirconium (Zr) ppm 0.5
84	W-084	Pulp	4.50	0.03	<0.05	30.7	1033	4.7	79.6	0.003	0.78	0.43	4.1	1	<0.2	97.8	<0.01	2.03	1.8	0.083	1.2	0.34	83	0.30	9.75	42	46.0
85	W-085	Pulp																									
86	W-086	Pulp	93.98	0.04	<0.05	36.8	893	75.2	198.3	0.074	3.00	0.45	8.2	4.8	0.3	161.9	<0.01	5.94	1.4	0.138	2.46	0.93	88	1.29	8.41	114	50.2
87	W-087	Pulp																									
88	W-088	Pulp	130.83	0.04	0.05	79.4	1066	39.2	177.6	0.075	2.72	1.00	5.3	1.7	0.2	84.9	<0.01	3.68	2.7	0.169	2.84	3.1	75	2.45	8.40	151	39.7
89	W-089	Pulp																									
90	W-090	Pulp	1.86	0.03	<0.05	98.0	975	16.5	195.5	<0.001	1.13	0.56	4	1.5	0.2	26.3	<0.01	0.69	2	0.247	3.76	1.13	76	0.45	6.61	133	40.0
91	W-091	Pulp	7.35	0.02	<0.05	207.9	1924	6.2	39.7	0.001	1.00	0.37	3.8	0.4	<0.2	170.7	<0.01	0.01	1.7	0.065	0.92	0.31	50	0.58	15.32	77	15.0
92	W-092	Pulp	5.62	0.03	<0.05	112.8	742	4.0	127.4	<0.001	0.98	1.06	10.9	0.2	0.5	178.5	0.02	0.27	1.1	0.201	2.7	0.36	107	0.35	5.33	45	15.6
93	W-093	Pulp																									
94	W-094	Pulp	1.73	0.01	<0.05	36.8	750	3.2	3.4	0.001	0.05	0.73	10.4	<0.2	<0.2	107.7	<0.01	0.01	1.6	0.061	0.07	0.21	110	0.20	11.35	118	20.4
95	W-095	Pulp																									
96	W-096	Pulp	11.70	0.02	<0.05	97.1	330	9.7	128.7	0.001	1.79	0.64	6.4	0.5	<0.2	178.2	<0.01	0.61	0.5	0.129	2.58	0.49	81	0.90	5.83	95	33.0
97	W-097	Pulp																									
98	W-098	Pulp	9.61	0.03	<0.05	53.7	913	9.9	56.3	<0.001	2.42	0.76	3.1	0.2	<0.2	180.2	<0.01	0.18	1.8	0.057	1.21	0.41	36	2.23	6.99	58	45.1
99	W-099	Pulp																									
100	W-100	Pulp	8.24	0.02	0.09	7.6	1401	51.0	24.4	<0.001	0.62	2.94	0.5	0.2	<0.2	746.3	<0.01	0.28	6.2	0.01	0.39	4.25	4	0.35	9.80	73	74.4
101	W-101	Pulp																									
102	W-102	Pulp	0.18	0.03	0.12	6.5	1452	18.4	59.3	<0.001	0.06	1.84	0.7	<0.2	<0.2	1187.2	<0.01	0.03	7.9	0.027	0.89	3.79	6	0.23	10.45	41	117.8
103	W-103	Pulp	14.36	0.02	<0.05	91.2	1130	11.5	75.6	0.004	1.73	0.63	2.7	0.8	<0.2	112.4	<0.01	1.92	2	0.083	1.33	1.81	63	0.32	9.64	142	24.3
104	W-104	Pulp																									
105	W-105	Pulp	6.88	0.03	<0.05	92.9	1048	7.8	72.5	<0.001	1.32	0.77	2.9	0.4	<0.2	22.1	<0.01	0.45	2	0.073	1.2	1.01	79	0.59	7.95	99	29.5
106	W-106	Pulp																									
107	W-107	Pulp	20.48	0.01	0.08	25.6	830	26.6	112.8	0.004	2.08	1.24	1.5	1	0.2	176.8	<0.01	2.79	5.2	0.06	2.05	3.11	21	1.11	8.21	115	68.6
108	W-108	Pulp																									
109	W-109	Pulp	112.76	0.02	0.10	28.6	570	65.2	174.4	0.008	2.77	1.46	3.1	2.3	0.3	220.8	<0.01	3.03	5.4	0.042	2.73	8.4	32	1.43	13.18	172	73.8
110	W-110	Pulp																									
111	W-111	Pulp	5.84	0.04	<0.05	56.3	862	7.7	166.4	<0.001	0.29	0.50	5.6	<0.2	0.3	35.3	<0.01	0.44	1.8	0.231	2.47	0.96	88	0.32	9.60	116	20.7
112	W-112	Pulp	0.99	0.02	<0.05	38.9	835	1.7	8.0	<0.001	0.03	0.77	2.3	<0.2	<0.2	72	<0.01	0.04	1.4	0.05	0.09	0.24	48	0.20	7.54	52	20.5
113	W-113	Pulp	2.16	0.02	0.28	16.2	1444	3.5	42.7	<0.001	0.12	4.88	2.4	<0.2	<0.2	197	<0.01	0.03	2.9	0.066	1.07	0.44	19	0.47	9.74	88	39.7
114	W-114	Pulp																									
115	W-115	Pulp	13.79	0.04	0.05	27.9	798	20.7	97.7	0.003	1.90	0.76	2.4	1.4	<0.2	327	<0.01	2.8	5	0.054	1.33	1.96	25	0.75	9.16	98	74.5
116	W-116	Pulp																									
117	W-117	Pulp	3.44	0.02	<0.05	48.0	910	6.0	8.8	<0.001	0.32	0.80	4	0.2	<0.2	94.4	<0.01	0.46	1.7	0.047	0.15	0.31	78	1.03	8.41	93	22.2
118	W-118	Pulp																									
119	W-119	Pulp	0.85	0.04	0.08	6.9	1420	35.5	29.0	<0.001	0.38	1.58	0.7	<0.2	<0.2	576.7	<0.01	0.04	6.3	0.017	0.48	3.02	6	0.22	9.00	60	84.3
120	W-120	Pulp																									
121	W-121	Pulp	20.35	0.02	0.23	47.2	707	34.3	100.7	0.002	1.36	4.42	4	0.4	<0.2	380.6	<0.01	0.3	1.7	0.118	1.98	2.02	36	0.67	9.31	130	46.2
122	W-122	Pulp																									
123	W-123	Pulp	3.07	0.03	<0.05	54.2	706	38.4	115.0	0.001	2.21	55.34	3.5	0.7	<0.2	395.6	<0.01	0.77	2.3	0.096	2.56	3.71	37	0.46	8.55	306	51.3
124	W-124	Pulp	0.57	0.02	<0.05	74.5	1017	4.6	3.1	<0.001	0.05	0.58	6.5	<0.2	<0.2	21.6	0.01	<0.01	2	0.054	0.06	0.54	89	0.18	7.82	105	12.0
125	W-125	Pulp	87.28	0.01	0.07	26.4	755	54.8	143.5	0.01	2.87	1.61	1.7	1.9	0.3	343.5	0.01	2.12	5.6	0.037	2.4	6	24	1.59	8.33	102	78.9
126	W-126	Pulp	1.57	0.02	<0.05	85.6	955	4.5	25.6	<0.001	0.09	1.02	2.8	<0.2	<0.2	58.3	<0.01	0.01	2	0.052	0.65	0.7	46	0.34	6.90	96	20.3
127	W-127	Pulp	29.81	0.01	0.08	26.4	305	36.6	158.7	0.003	2.21	1.35	2.4	1.4	0.3	289.1	<0.01	2.57	4.7	0.045	2.53	5.68	40	1.11	8.32	141	92.0

S. No.	Sample ID	Method Analyte Unit MDL Sample Type	IMS-130																											
			Silver (Ag) ppm 0.01	Aluminum (Al) % 0.01	Arsenic (As) ppm 0.1	Gold (Au) ppm 0.005	Boron (B) ppm 10	Barium (Ba) ppm 10	Beryllium (Be) ppm 0.05	Bismuth (Bi) ppm 0.01	Calcium (Ca) % 0.01	Cadmium (Cd) ppm 0.01	Cerium (Ce) ppm 0.02	Cobalt (Co) ppm 0.1	Chromium (Cr) ppm 1	Cesium (Cs) ppm 0.05	Copper (Cu) ppm 0.2	Iron (Fe) % 0.01	Gallium (Ga) ppm 0.05	Germanium (Ge) ppm 0.05	Hafnium (Hf) ppm 0.02	Mercury (Hg) ppm 0.01	Indium (In) ppm 0.005	Potassium (K) % 0.01	Lanthanum (La) ppm 0.2	Lithium (Li) ppm 0.1	Magnesium (Mg) % 0.01	Manganese (Mn) ppm 5		
128	W-128	Pulp	0.27	3.4	8.5	0.012	<10	40	0.17	<0.01	2.95	0.06	8.44	38.0	172	5.73	93.3	6.36	8.72	0.12	0.12	0.02	0.007	0.17	3.6	29.8	3.05	798		
129	W-129	Pulp	0.40	5.0	81.8	0.0239	<10	120	2.26	0.05	0.17	0.05	16.5	80.0	935	28.00	107.1	14.71	16.02	0.47	0.41	0.01	0.067	1.86	6.8	112.0	6.28	442		
130	W-130	Pulp	0.31	3.0	10.4	0.0064	<10	19	0.26	0.01	0.42	0.1	19.96	41.5	142	1.51	107.9	8.11	11.26	0.11	0.24	0.02	0.020	0.07	8.1	25.4	2.76	948		
131	W-131	Pulp	0.08	2.6	6.0	0.0044	<10	29	0.81	0.03	4.58	0.09	160.27	29.3	226	1.12	41.0	4.97	7.29	0.11	0.61	<0.005	0.015	0.10	121.2	46.8	1.83	817		
132	W-132	Pulp	3.46	1.6	17.7	0.4408	<10	68	1.31	0.52	0.49	5.17	47.11	36.8	67	10.74	136.7	7.79	7.65	0.20	1.06	0.28	0.034	1.80	28.2	103.9	2.02	3076		
133	W-133	Pulp	0.05	1.6	36.7	0.0138	<10	12	0.56	0.01	5.00	0.07	17.9	32.6	94	1.86	57.9	5.86	4.33	0.08	0.35	0.02	0.011	0.17	8.0	40.1	2.47	1035		
134	W-134	Pulp	1.86	2.0	14.7	0.2506	<10	254	1.01	0.13	0.29	0.11	57.49	33.4	81	15.23	108.7	6.09	8.18	0.16	0.76	0.07	0.018	2.00	28.8	44.3	1.98	396		
135	W-135	Pulp	0.34	1.6	110.8	0.0658	<10	61	0.37	0.26	3.24	0.06	93.68	33.4	84	37.71	67.7	5.37	5.97	0.13	1.21	0.03	0.018	0.91	53.2	28.5	2.73	793		
136	W-136	Pulp																												
137	W-137	Pulp	1.98	2.3	102.7	0.4628	<10	38	0.38	0.06	2.01	0.34	133.98	33.1	55	47.08	60.2	8.59	7.19	0.19	1.32	0.16	0.019	1.64	87.5	49.5	2.65	1114		
138	W-138	Pulp																												
139	W-139	Pulp	3.02	0.4	455.2	0.1642	<10	49	0.30	0.62	2.75	8.38	53.99	28.0	39	4.80	55.1	7.57	2.53	0.11	1.24	2.25	0.089	0.40	32.0	6.0	1	1724		
140	W-140	Pulp																												
141	W-141	Pulp	0.13	0.5	29.8	0.1022	<10	124	0.45	0.29	3.52	0.04	86.96	12.8	25	5.70	36.6	2.55	2.23	0.11	3.12	0.06	0.006	0.49	39.2	11.8	0.64	724		
142	W-142	Pulp																												
143	W-143	Pulp																												
144	W-144	Pulp																												
145	W-145	Pulp																												
146	W-146	Pulp																												
147	W-147	Pulp																												
148	W-148	Pulp																												
149	W-149	Pulp																												
150	W-150	Pulp	1.50	2.2	23.3	0.1718	<10	157	1.14	0.04	0.38	0.25	47.66	43.5	36	42.00	148.2	10.22	13.01	0.31	0.77	0.12	0.068	2.24	21.1	55.9	2.06	1313		
151	W-151	Pulp	0.66	1.5	5.3	0.1902	<10	149	1.41	0.02	1.80	0.06	20.56	35.3	72	1.78	72.9	6.42	3.85	0.07	0.28	0.10	0.006	0.14	8.8	18.6	1.67	1600		
152	W-152	Pulp																												
153	W-153	Pulp																												
154	W-154	Pulp																												
155	W-155	Pulp																												
156	W-156	Pulp																												
157	W-157	Pulp																												
158	W-158	Pulp																												
159	W-159	Pulp																												
160	W-160	Pulp																												
161	W-161	Pulp																												
162	W-162	Pulp	1.00	0.7	87.5	0.0983	<10	70	0.54	0.04	0.84	0.11	9.51	62.2	72	6.92	118.8	9.69	2.28	0.07	0.55	0.14	0.010	0.64	5.1	8.7	0.78	3377		
163	W-163	Pulp	2.01	1.6	17.2	0.3958	<10	49	0.82	0.03	0.49	0.19	27.16	38.5	78	6.87	84.5	6.31	5.61	0.08	0.49	0.07	0.011	0.29	11.6	18.6	1.49	2315		
164	W-164	Pulp	4.92	0.8	99.6	1.5386	<10	38	0.47	0.03	2.82	0.38	94.87	22.1	61	4.75	42.2	5.93	4.21	0.20	1.98	0.25	0.018	1.12	52.2	32.8	0.88	913		
165	W-165	Pulp	1.03	1.5	10.0	0.3303	<10	63	0.56	0.05	2.13	0.46	52.15	30.3	67	12.56	61.9	5.68	4.71	0.09	0.66	0.05	0.010	0.60	28.3	19.6	2.07	1950		
166	W-166	Pulp	2.37	2.8	155.1	8.9834	<10	34	1.18	0.10	0.47	0.13	34.6	51.8	119	49.36	136.4	7.98	8.11	0.21	0.96	0.08	0.022	3.39	21.8	190.6	3.84	606		
167	W-167	Pulp	0.26	2.1	7.9	0.1984	<10	56	0.31	0.03	1.58	0.14	30.55	29.0	117	11.34	9.4	5.29	7.83	0.12	0.97	0.03	0.013	0.72	12.9	25.8	1.96	422		
168	W-168	Pulp	0.15	3.0	40.3	0.0321	<10	13	0.23	<0.01	4.47	0.07	16.26	34.4	210	1.10	41.0	6.22	8.67	0.09	0.42	0.02	0.017	0.09	7.2	55.8	3.16	1092		
169	W-169	Pulp	0.34	3.1	6.6	0.1316	<10	24	0.62	0.02	0.84	0.15	17.41	50.5	140	0.89	61.7	6.99	7.35	0.08	0.27	0.02	0.012	0.12	7.4	36.4	3.02	960		
170	W-170	Pulp	0.08	2.9	34.7	0.3103	<10	63	0.16	0.02	4.49	0.03	25.04	38.3	151	12.96	16.5	5.40	6.93	0.09	0.38	0.01	0.011	0.54	14.2	44.3	2.82	800		
171	W-171	Pulp	4.57	1.8	7.9	0.599	<10	77	0.98	0.14	0.25	0.25	64.16	30.5	49	12.45	94.9	5.76	4.97	0.15	1.05	0.04	0.009	2.01	35.5	92.9	2.1	995		

S. No.	Sample ID	Method Analyte Unit MDL Sample Ty	Molybdenum (Mo) ppm 0.05	Sodium (Na) % 0.01	Niobium (Nb) ppm 0.05	Nickel (Ni) ppm 0.2	Phosphorous (P) ppm 10	Lead (Pb) ppm 0.2	Rubidium (Rb) ppm 0.1	Rhenium (Re) ppm 0.001	Sulphur (S) % 0.01	Antimony (Sb) ppm 0.05	Scandium (Sc) ppm 0.1	Selenium (Se) ppm 0.2	Tin (Sn) ppm 0.2	Strontium (Sr) ppm 0.2	Tantalum (Ta) ppm 0.01	Tellurium (Te) ppm 0.01	Thorium (Th) ppm 0.2	Titanium (Ti) % 0.005	Thallium (Tl) ppm 0.02	Uranium (U) ppm 0.05	Vandium (V) ppm 1	Tungsten (W) ppm 0.05	Yttrium (Y) ppm 0.05	Zinc (Zn) ppm 2	Zirconium (Zr) ppm 0.5
128	W-128	Pulp	0.69	0.02	0.08	62.3	672	3.7	18.2	<0.001	0.12	1.17	4.7	0.2	0.2	43	<0.01	0.09	0.6	0.157	0.49	0.1	120	0.51	4.69	107	4.6
129	W-129	Pulp	0.37	0.02	0.12	390.1	633	5.8	197.9	<0.001	0.05	0.87	32.5	<0.2	0.8	43.1	<0.01	0.12	0.7	0.459	3.26	17.93	227	2.88	3.68	325	14.3
130	W-130	Pulp	0.62	0.02	0.05	39.6	1021	7.3	6.7	<0.001	0.15	1.27	11.1	0.2	0.3	24.7	<0.01	0.05	1.3	0.09	0.18	0.22	192	0.21	9.24	137	7.1
131	W-131	Pulp	3.38	0.01	<0.05	52.0	530	4.9	4.2	0.002	0.07	1.43	5	<0.2	<0.2	62.3	<0.01	<0.01	1.9	0.032	0.08	1.29	51	0.63	11.32	84	25.0
132	W-132	Pulp	42.12	0.04	<0.05	40.1	904	20.5	243.5	0.012	2.81	0.40	12.2	2.9	0.5	48.8	<0.01	4.45	1.1	0.143	3.1	1.5	126	1.16	9.19	1346	40.1
133	W-133	Pulp	3.89	0.01	<0.05	46.3	386	2.5	9.4	<0.001	0.69	1.58	5	<0.2	<0.2	93.7	<0.01	0.01	0.9	0.032	0.2	0.22	39	9.42	7.18	132	14.1
134	W-134	Pulp	14.61	0.05	<0.05	68.9	1073	15.5	202.5	0.007	1.23	0.44	7.6	1.1	0.4	25.1	<0.01	3.43	2.6	0.267	3.49	0.99	115	0.60	8.96	78	27.4
135	W-135	Pulp	6.71	0.03	0.13	89.3	542	7.5	78.1	0.002	1.80	1.25	5.6	0.3	0.3	96	<0.01	0.1	3.3	0.123	1.8	1.86	64	7.82	7.73	42	47.7
136	W-136	Pulp																									
137	W-137	Pulp	35.35	0.02	0.17	45.5	818	10.4	143.0	0.003	4.83	0.95	7.1	0.7	0.3	85	<0.01	1.57	1.9	0.201	3.15	1.74	81	6.07	7.57	255	53.0
138	W-138	Pulp																									
139	W-139	Pulp	47.00	0.02	0.07	22.4	1336	989.8	38.5	0.002	6.68	6.83	4.7	5.9	<0.2	342.6	<0.01	3.74	1.8	0.036	0.88	1.24	28	0.81	10.44	2667	49.9
140	W-140	Pulp																									
141	W-141	Pulp	2.43	0.03	0.65	19.8	750	13.9	46.3	<0.001	0.37	2.39	1.7	<0.2	<0.2	338.2	<0.01	0.07	11.4	0.061	1.04	3.91	19	0.56	13.07	43	133.6
142	W-142	Pulp																									
143	W-143	Pulp																									
144	W-144	Pulp																									
145	W-145	Pulp																									
146	W-146	Pulp																									
147	W-147	Pulp																									
148	W-148	Pulp																									
149	W-149	Pulp																									
150	W-150	Pulp	4.22	0.04	<0.05	21.1	1492	14.9	183.4	0.004	1.75	0.93	26.9	1.9	0.6	16.9	<0.01	3.94	1.5	0.317	2.74	0.78	267	0.49	11.78	163	28.3
151	W-151	Pulp	3.73	0.02	<0.05	72.3	632	4.3	10.9	0.002	0.62	1.38	2	0.5	<0.2	62.7	<0.01	1.22	0.8	0.009	0.18	0.21	38	6.23	7.34	85	11.4
152	W-152	Pulp																									
153	W-153	Pulp																									
154	W-154	Pulp																									
155	W-155	Pulp																									
156	W-156	Pulp																									
157	W-157	Pulp																									
158	W-158	Pulp																									
159	W-159	Pulp																									
160	W-160	Pulp																									
161	W-161	Pulp																									
162	W-162	Pulp	10.68	0.02	<0.05	119.9	555	9.3	59.1	0.002	2.67	3.09	4.6	0.5	<0.2	46.6	0.02	0.63	0.4	0.04	1.34	0.37	54	1.51	5.27	129	18.4
163	W-163	Pulp	63.42	0.02	<0.05	56.0	1245	47.0	31.4	0.002	1.38	0.54	3.4	0.6	0.2	22.5	<0.01	1.81	1.4	0.025	0.68	0.3	74	1.85	9.32	180	18.6
164	W-164	Pulp	42.38	0.02	0.08	16.8	1188	35.2	108.6	0.007	6.20	2.53	5.3	4	0.2	213.9	0.01	6.8	2.7	0.023	1.57	1.41	37	1.08	17.27	87	78.6
165	W-165	Pulp	34.32	0.02	<0.05	72.0	1256	9.6	52.1	0.005	1.18	0.63	3.2	0.4	<0.2	51.8	<0.01	1.23	1.7	0.079	0.99	0.87	55	0.48	7.48	135	27.0
166	W-166	Pulp	21.85	0.03	<0.05	122.5	338	21.8	354.9	0.009	4.93	2.16	11.4	3.2	<0.2	25.2	<0.01	3.95	0.4	0.274	5.71	2.81	137	0.76	6.68	154	33.1
167	W-167	Pulp	2.22	0.02	<0.05	81.3	1157	7.1	55.5	<0.001	0.42	0.48	5.5	<0.2	0.2	24.4	<0.01	0.7	2.1	0.12	1.07	0.69	93	0.32	11.54	95	30.7
168	W-168	Pulp	1.65	0.01	<0.05	53.6	431	3.7	4.4	<0.001	1.31	0.70	9.3	<0.2	<0.2	74.3	<0.01	0.02	0.9	0.007	0.13	0.19	79	0.06	7.66	77	16.2
169	W-169	Pulp	6.40	0.01	<0.05	95.3	637	5.8	8.4	<0.001	0.75	0.14	4.2	0.7	<0.2	13.8	<0.01	0.63	0.8	0.021	0.16	0.21	69	0.23	8.37	128	8.8
170	W-170	Pulp	4.88	0.02	<0.05	133.8	433	3.9	54.8	<0.001	0.36	0.40	3.8	<0.2	<0.2	96.2	<0.01	0.04	0.8	0.065	1.41	0.31	54	3.14	9.11	62	13.6
171	W-171	Pulp	41.12	0.03	<0.05	54.0	1107	20.3	199.4	0.017	2.91	0.34	4.2	3	<0.2	14.9	<0.01	7.28	1.5	0.181	2.46	1.01	53	0.63	8.98	153	39.7

S. No.	Sample ID	Method Analyte Unit MDL Sample Ty	Molybdenum (Mo) ppm 0.05	Sodium (Na) % 0.01	Niobium (Nb) ppm 0.05	Nickel (Ni) ppm 0.2	Phosphorous (P) ppm 10	Lead (Pb) ppm 0.2	Rubidium (Rb) ppm 0.1	Rhenium (Re) ppm 0.001	Sulphur (S) % 0.01	Antimony (Sb) ppm 0.05	Scandium (Sc) ppm 0.1	Selenium (Se) ppm 0.2	Tin (Sn) ppm 0.2	Strontium (Sr) ppm 0.2	Tantalum (Ta) ppm 0.01	Tellurium (Te) ppm 0.01	Thorium (Th) ppm 0.2	Titanium (Ti) % 0.005	Thallium (Tl) ppm 0.02	Uranium (U) ppm 0.05	Vandium (V) ppm 1	Tungsten (W) ppm 0.05	Yttrium (Y) ppm 0.05	Zinc (Zn) ppm 2	Zirconium (Zr) ppm 0.5
172	W-172	Pulp																									
173	W-173	Pulp	126.97	0.03	<0.05	36.9	2656	92.8	145.4	0.125	4.27	0.56	4.9	2.4	0.5	54.1	<0.01	3.04	2.2	0.11	1.8	3.42	61	1.04	9.62	267	43.8
174	W-174	Pulp																									
175	W-175	Pulp																									
176	W-176	Pulp																									
177	W-177	Pulp																									
178	W-178	Pulp																									
179	W-179	Pulp	1.50	0.02	<0.05	83.2	1190	9.6	6.4	<0.001	0.56	0.47	3.7	0.2	<0.2	12.3	<0.01	0.56	1.8	0.034	0.24	0.41	62	0.26	8.08	227	13.7
180	W-180	Pulp	2.33	0.03	0.05	6.2	48	34.9	36.6	<0.001	0.43	0.82	0.3	1.2	0.3	167.8	<0.01	0.93	4.8	0.011	0.67	4.25	4	0.50	4.33	70	72.3
181	W-181	Pulp																									
182	W-182	Pulp																									
183	W-183	Pulp																									
184	W-184	Pulp																									
185	W-185	Pulp																									
186	W-186	Pulp																									
187	W-187	Pulp																									
188	W-188	Pulp																									
189	W-189	Pulp																									
190	W-190	Pulp																									
191	W-191	Pulp																									
192	W-192	Pulp	14.05	0.02	<0.05	17.4	1208	9.5	78.1	<0.001	4.33	1.62	4.5	0.3	0.2	224.5	<0.01	0.1	2.3	0.064	1.85	7.17	33	1.70	12.47	98	88.1
193	W-193	Pulp																									
194	W-194	Pulp	34.26	0.03	0.10	6.3	381	75.0	37.9	0.004	1.13	0.88	0.5	0.6	<0.2	297.5	<0.01	1.26	5.3	0.014	0.57	3.96	6	0.52	5.92	115	118.5
195	W-195	Pulp																									
196	W-196	Pulp	4.45	0.03	0.06	27.7	706	33.8	59.5	<0.001	1.74	1.88	2.4	0.2	<0.2	390.5	<0.01	0.23	4.1	0.068	1.22	2.23	33	0.51	10.11	174	74.1
197	W-197	Pulp																									
198	W-198	Pulp	9.16	0.01	0.12	39.1	722	208.5	33.4	0.002	2.63	11.82	1.9	2	<0.2	177.3	<0.01	2.65	1.4	0.041	0.71	1.67	17	0.62	8.27	845	35.9
199	W-199	Pulp	4.03	0.02	<0.05	50.0	650	17.1	71.1	0.001	1.86	1.57	5	0.8	<0.2	85.5	<0.01	2.6	0.9	0.05	1.23	0.31	75	6.05	10.45	156	13.9
200	W-200	Pulp	3.97	0.02	0.07	36.4	947	3.3	10.8	<0.001	0.50	0.85	4	<0.2	<0.2	90.5	0.01	0.21	1.8	0.052	0.24	0.22	62	2.10	8.43	85	19.5
201	W-201	Pulp																									
202	W-202	Pulp	0.83	0.02	<0.05	32.7	900	2.9	12.3	<0.001	0.16	1.74	3.7	<0.2	<0.2	131.1	<0.01	0.02	2	0.047	0.27	0.15	58	0.17	7.05	82	18.8
203	W-203	Pulp																									
204	W-204	Pulp	2.59	0.05	0.20	44.3	1429	4.0	59.9	<0.001	0.51	1.02	7.8	<0.2	0.4	155.6	<0.01	0.22	2.8	0.177	1.14	0.71	141	1.19	10.60	73	48.5
205	W-205	Pulp																									
206	W-206	Pulp	6.70	0.01	0.52	40.5	1292	9.3	119.3	0.002	0.58	4.76	3.5	<0.2	0.3	174.3	<0.01	0.04	2.9	0.118	3.46	1.21	34	43.80	12.26	77	72.0
207	W-207	Pulp	8.58	0.01	0.17	35.4	496	4.4	48.8	0.001	1.54	2.22	3.8	0.4	<0.2	166.9	<0.01	0.89	1	0.06	1.27	0.36	34	1.46	5.85	44	25.7
208	W-208	Pulp	7.19	0.02	0.51	27.7	1178	6.9	120.4	<0.001	0.98	2.61	2.6	<0.2	0.2	143.3	<0.01	0.11	2.4	0.112	3.38	1.11	34	8.30	9.85	68	72.8
209	W-209	Pulp	27.64	0.02	0.05	35.7	1481	16.9	116.2	0.002	6.38	0.82	3.7	0.5	0.2	47.5	<0.01	2.33	2	0.065	2.24	1.27	42	1.34	10.44	113	61.2
210	W-210	Pulp	0.69	0.01	0.11	79.1	884	4.0	10.4	<0.001	0.02	0.45	5.6	<0.2	0.2	61.9	<0.01	<0.01	1.9	0.122	0.2	0.26	70	0.09	8.40	89	9.5
211	W-211	Pulp	35.87	0.05	<0.05	49.7	663	4.2	78.0	<0.001	2.63	1.98	4.1	<0.2	0.3	31.2	<0.01	0.34	2.5	0.097	1.45	0.91	60	1.62	9.90	31	94.2
212	W-212	Pulp	0.71	0.02	0.07	78.6	838	2.2	20.2	<0.001	0.06	0.43	5.9	<0.2	0.2	51.2	<0.01	0.02	1.9	0.101	0.33	0.29	71	0.13	8.11	78	9.9
213	W-213	Pulp	32.13	0.02	0.18	55.3	1048	52.4	121.5	0.017	5.11	3.88	3.5	0.9	<0.2	87.5	<0.01	1.72	2.2	0.12	2.32	16.1	41	2.10	12.01	206	77.7
214	W-214	Pulp	1.80	0.02	<0.05	82.5	825	9.1	32.2	<0.001	0.05	0.48	5.8	<0.2	<0.2	79.1	<0.01	0.02	1.8	0.093	0.58	0.37	92	0.09	9.38	138	25.9
215	W-215	Pulp	19.05	0.03	<0.05	25.3	881	172.3	61.7	0.004	2.85	1.54	4.2	4.5	<0.2	217.2	<0.01	8.35	1.1	0.063	0.88	0.79	45	3.13	7.98	104	51.1

S. No.	Sample ID	Method Analyte Unit MDL Sample Ty	Molybdenum (Mo) ppm 0.05	Sodium (Na) % 0.01	Niobium (Nb) ppm 0.05	Nickel (Ni) ppm 0.2	Phosphorous (P) ppm 10	Lead (Pb) ppm 0.2	Rubidium (Rb) ppm 0.1	Rhenium (Re) ppm 0.001	Sulphur (S) % 0.01	Antimony (Sb) ppm 0.05	Scandium (Sc) ppm 0.1	Selenium (Se) ppm 0.2	Tin (Sn) ppm 0.2	Strontium (Sr) ppm 0.2	Tantalum (Ta) ppm 0.01	Tellurium (Te) ppm 0.01	Thorium (Th) ppm 0.2	Titanium (Ti) % 0.005	Thallium (Tl) ppm 0.02	Uranium (U) ppm 0.05	Vandium (V) ppm 1	Tungsten (W) ppm 0.05	Yttrium (Y) ppm 0.05	Zinc (Zn) ppm 2	Zirconium (Zr) ppm 0.5
216	W-216	Pulp	0.97	0.02	<0.05	74.8	773	5.9	9.4	<0.001	0.37	0.71	4.1	<0.2	<0.2	110.1	<0.01	0.17	1.5	0.07	0.2	0.24	73	0.17	8.32	67	17.6
217	W-217	Pulp	14.72	0.02	0.10	12.5	812	27.7	89.8	<0.001	4.03	2.65	3	0.2	0.4	278.3	<0.01	0.42	3.5	0.088	2.26	4.95	17	7.05	14.17	191	132.5
218	W-218	Pulp	21.57	0.04	<0.05	36.0	851	40.7	201.3	0.018	4.53	0.37	10.1	7.3	0.3	189.4	<0.01	6.06	1.3	0.119	2.29	0.71	102	0.48	11.73	89	35.0
219	W-219	Pulp	7.37	0.01	<0.05	153.0	649	4.5	126.6	0.001	3.54	1.89	5.9	0.6	<0.2	8.6	<0.01	0.35	0.3	0.118	2.61	0.51	72	1.08	6.39	200	21.7
220	W-220	Pulp	5.55	0.02	0.25	26.7	840	4.2	81.5	<0.001	4.84	2.58	5.4	0.2	<0.2	127	0.01	0.04	1.2	0.106	2.51	0.54	54	0.55	7.42	50	25.8
221	W-221	Pulp	71.03	0.03	0.15	5.0	298	307.2	80.1	0.006	1.24	8.79	0.7	0.9	<0.2	312	<0.01	1.34	4.4	0.021	1.2	8.07	11	0.64	6.95	660	149.4
222	W-222	Pulp	0.60	0.01	<0.05	101.2	457	3.6	7.2	<0.001	0.02	0.23	5.4	<0.2	<0.2	111.2	<0.01	<0.01	1.4	0.049	0.15	0.22	69	<0.05	8.17	71	14.7
223	W-223	Pulp	5.00	0.04	0.10	5.1	306	26.0	28.1	0.001	0.78	3.01	0.4	0.4	<0.2	539.1	<0.01	0.63	4.4	0.01	0.45	4.43	4	0.57	5.98	52	125.2
224	W-224	Pulp	1.00	0.02	<0.05	116.7	473	5.5	7.8	<0.001	0.21	0.31	3.1	0.2	<0.2	144.7	<0.01	0.05	0.8	0.034	0.19	0.18	45	0.06	10.50	77	10.5
225	W-225	Pulp	22.64	0.04	<0.05	26.2	1090	251.6	125.2	0.002	1.88	0.91	3.4	1.4	<0.2	211.7	<0.01	4.33	2.3	0.098	2.17	1.53	48	0.69	8.94	255	57.4
226	W-226	Pulp	28.55	0.05	<0.05	39.8	1039	15.5	148.3	0.005	1.38	0.18	7.6	1.4	0.3	18.7	<0.01	2.61	1.6	0.145	1.8	0.51	95	1.05	8.32	117	41.0
227	W-227	Pulp	4.32	0.02	<0.05	2.9	56	43.0	9.3	<0.001	0.30	1.48	0.2	<0.2	0.2	225.2	<0.01	0.14	9.9	<0.005	0.19	3.76	2	0.60	4.84	29	57.1
228	W-228	Pulp	76.95	0.03	0.06	29.4	1324	177.4	133.1	0.039	2.15	0.42	2.5	2.1	0.2	217.6	<0.01	3.06	3.7	0.061	1.56	2.96	40	1.58	9.38	177	79.6
229	W-229	Pulp	1.55	0.02	0.15	34.7	1327	2.6	21.3	<0.001	0.10	1.65	3.5	<0.2	<0.2	107.7	<0.01	0.02	3.2	0.07	0.44	0.44	62	0.26	8.56	59	25.1
230	W-230	Pulp	4.69	0.03	<0.05	50.0	596	2.0	22.4	0.007	0.28	0.36	2.5	0.2	<0.2	78.3	<0.01	0.35	1	0.029	0.41	0.18	47	0.26	6.76	24	20.1
231	W-231	Pulp	1.73	0.04	<0.05	66.1	1330	7.9	129.1	<0.001	0.20	0.52	8.8	<0.2	0.4	41.2	<0.01	0.32	1	0.274	1.87	0.51	139	0.36	6.76	458	11.2
232	W-232	Pulp	5.94	0.02	<0.05	50.1	1009	3.3	15.6	<0.001	0.84	0.43	5.8	0.3	<0.2	70.1	<0.01	0.4	2.1	0.071	0.33	0.32	74	0.39	7.05	61	30.2
233	W-233	Pulp	0.32	0.02	<0.05	37.8	877	10.0	86.6	<0.001	<0.01	0.70	6.6	<0.2	<0.2	45.1	<0.01	0.45	1.7	0.097	2.19	0.15	114	0.45	10.54	154	20.1
234	W-234	Pulp	2.16	0.02	<0.05	107.0	676	6.5	26.4	<0.001	0.26	0.18	10.7	0.2	<0.2	147.1	<0.01	0.23	1.1	0.027	0.54	0.22	126	0.10	8.69	77	15.4
235	W-235	Pulp	0.77	0.02	<0.05	100.2	901	4.3	3.3	<0.001	0.32	0.34	6	<0.2	<0.2	43.7	<0.01	0.1	1.7	0.043	0.07	0.39	86	0.16	6.49	87	12.2
236	W-236	Pulp	1.63	0.02	<0.05	96.6	706	13.8	18.5	0.004	0.34	0.34	3.3	0.4	<0.2	65.9	<0.01	1.43	1.2	0.014	0.42	0.1	54	0.15	7.88	347	17.2
237	W-237	Pulp	0.78	0.02	<0.05	56.4	886	3.8	3.5	<0.001	0.35	0.41	3.6	<0.2	<0.2	69.8	<0.01	0.07	1.7	0.042	0.06	0.3	63	0.14	7.64	75	13.1
238	W-238	Pulp	6.85	0.02	<0.05	151.8	764	22.3	123.9	0.002	1.29	0.30	7.4	1.2	0.3	84	0.01	2.01	1.3	0.136	2.36	0.19	81	0.21	10.19	882	21.9
239	W-239	Pulp	2.74	0.02	0.06	80.8	878	5.2	87.2	<0.001	0.67	0.41	8.4	0.3	0.4	78.1	<0.01	0.22	2.2	0.146	1.72	0.56	103	0.53	11.83	117	27.1
240	W-240	Pulp	10.07	0.04	<0.05	38.8	781	4.3	16.6	<0.001	0.47	0.33	4.4	0.3	<0.2	115.8	<0.01	0.47	1.6	0.009	0.32	0.26	60	0.63	5.75	36	28.2
241	W-241	Pulp	0.08	0.02	0.13	25.7	1243	4.8	146.6	<0.001	<0.01	1.36	6.7	<0.2	<0.2	376.4	<0.01	<0.01	4.8	0.203	2.86	0.98	61	0.79	10.94	82	68.1
242	W-242	Pulp																									
243	W-243	Pulp	0.10	0.02	0.09	28.2	1209	3.7	239.0	<0.001	0.01	1.16	8.3	<0.2	0.3	354.3	<0.01	0.02	4.7	0.238	5.14	0.89	83	0.26	9.77	88	69.9
244	W-244	Pulp																									
245	W-245	Pulp	0.07	0.02	0.08	26.6	1153	4.1	191.8	<0.001	0.01	1.68	6.8	<0.2	0.2	520.3	<0.01	0.02	4.6	0.24	3.67	0.89	66	0.34	9.57	80	57.8
246	W-246	Pulp																									
247	W-247	Pulp	11.67	0.03	0.06	55.1	694	15.2	180.6	0.003	3.05	0.50	8.6	1.9	0.2	77.9	<0.01	3.1	1.5	0.114	3.22	0.53	93	0.46	6.25	247	34.8
248	W-248	Pulp																									
249	W-249	Pulp	0.61	0.01	<0.05	79.7	735	4.4	5.3	<0.001	0.17	0.36	4.8	<0.2	<0.2	128	<0.01	0.05	1.4	0.056	0.07	0.21	57	0.13	10.82	75	14.2
250	W-250	Pulp																									
251	W-251	Pulp	1.93	0.02	<0.05	75.1	787	2.9	21.1	<0.001	0.24	0.45	5.6	<0.2	<0.2	51	<0.01	0.11	1.8	0.064	0.46	0.72	78	0.20	8.89	88	21.3
252	W-252	Pulp																									
253	W-253	Pulp	18.79	0.02	0.07	32.5	694	25.7	86.9	0.003	6.54	3.46	6.2	1.1	<0.2	187.9	<0.01	0.32	2.6	0.076	2.21	1.56	39	0.92	12.83	61	56.4
254	W-254	Pulp	1.97	0.02	<0.05	86.9	783	4.2	20.5	0.001	0.44	0.18	4.1	<0.2	<0.2	36.5	<0.01	0.34	1.2	0.029	0.54	0.58	62	0.12	8.37	97	15.7
255	W-255	Pulp	1.65	0.03	1.69	11.8	355	9.1	6.7	<0.001	0.08	0.50	1.7	<0.2	0.4	20.4	<0.01	0.16	2.7	0.065	0.1	0.63	20	4.98	4.34	25	7.2
256	W-256	Pulp	0.55	0.02	0.16	7.4	1382	31.1	40.4	<0.001	0.34	1.72	1	<0.2	<0.2	579.3	<0.01	0.05	7	0.015	0.63	3.35	5	0.37	10.04	36	84.1
257	W-257	Pulp	2.13	0.03	1.44	20.7	422	8.1	12.6	<0.001	0.14	0.41	2.7	<0.2	0.3	32.5	<0.01	0.17	3.5	0.081	0.17	0.81	28	8.41	5.40	42	11.3
258	W-258	Pulp																									
259	W-259	Pulp	1.62	0.04	1.41	13.7	331	7.6	8.1	<0.001	0.09	0.34	2	<0.2	0.3	24.1	<0.01	0.13	3	0.066	0.12	0.65	22	3.06	4.62	30	8.9

S. No.	Sample ID	Method Analyte Unit MDL Sample Type	IMS-130																										
			Silver (Ag) ppm 0.01	Aluminum (Al) % 0.01	Arsenic (As) ppm 0.1	Gold (Au) ppm 0.005	Boron (B) ppm 10	Barium (Ba) ppm 10	Beryllium (Be) ppm 0.05	Bismuth (Bi) ppm 0.01	Calcium (Ca) % 0.01	Cadmium (Cd) ppm 0.01	Cerium (Ce) ppm 0.02	Cobalt (Co) ppm 0.1	Chromium (Cr) ppm 1	Cesium (Cs) ppm 0.05	Copper (Cu) ppm 0.2	Iron (Fe) % 0.01	Gallium (Ga) ppm 0.05	Germanium (Ge) ppm 0.05	Hafnium (Hf) ppm 0.02	Mercury (Hg) ppm 0.01	Indium (In) ppm 0.005	Potassium (K) % 0.01	Lanthanum (La) ppm 0.2	Lithium (Li) ppm 0.1	Magnesium (Mg) % 0.01	Manganese (Mn) ppm 5	
260	W-260	Pulp																											
261	W-261	Pulp	0.02	2.5	3.0	0.0013	<10	22	0.21	<0.01	4.10	0.08	30.26	27.1	117	0.91	60.9	5.26	7.50	0.07	0.41	0.02	0.014	0.12	13.7	31.9	2.14	791	
262	W-262	Pulp	0.76	0.9	54.8	0.0298	16	68	0.96	1.77	6.39	0.23	235.47	11.5	29	10.30	30.2	2.80	3.87	0.16	3.88	0.07	0.011	1.00	177.0	34.4	1.21	1521	
263	W-263	Pulp	0.63	2.5	7.5	0.0167	<10	81	0.22	0.06	2.71	0.34	44.01	32.6	80	12.80	83.5	6.41	10.68	0.11	0.59	0.06	0.025	0.59	23.7	25.0	2.29	805	
264	W-264	Pulp	0.11	2.8	3.1	0.0037	14	40	0.22	0.05	4.61	0.04	31.68	25.6	68	1.80	26.4	4.99	10.79	0.07	0.68	0.01	0.028	0.10	13.9	26.2	2.28	615	
265	W-265	Pulp	0.08	0.6	14.1	0.0277	<10	24	0.23	0.08	4.71	0.08	35.3	23.7	37	0.51	65.5	5.23	2.31	0.07	0.60	<0.005	0.008	0.16	16.2	5.7	1.3	1008	
266	W-266	Pulp	5.34	3.0	15.9	1.1018	27	55	2.79	0.09	0.48	0.21	52.22	47.5	135	30.76	236.5	9.61	10.09	0.23	1.08	0.11	0.024	2.84	29.3	535.1	3.21	1873	
267	W-267	Pulp	0.11	0.4	8.2	0.0305	<10	40	0.26	0.04	3.26	0.03	32.72	24.7	38	3.07	73.0	4.30	1.58	0.09	0.61	0.01	0.006	0.33	15.5	5.4	1.45	948	
268	W-268	Pulp	2.13	1.8	43.9	0.7074	16	16	1.04	0.25	0.25	0.68	101.65	33.1	75	16.29	66.2	7.29	7.83	0.21	1.93	0.07	0.023	2.09	56.5	380.2	2.52	180	
269	W-269	Pulp	0.24	0.4	49.6	0.0599	<10	35	0.38	0.01	4.78	0.11	9.84	41.9	39	1.41	117.0	6.85	1.12	0.08	0.33	0.02	0.007	0.36	6.3	5.6	1.5	1684	
270	W-270	Pulp	1.84	1.3	31.5	0.6015	17	33	0.88	0.92	0.23	0.22	>500	49.7	81	9.30	185.0	5.58	7.52	0.34	1.71	0.11	0.023	1.64	505.0	171.8	1.71	63	
271	W-271	Pulp	0.14	0.6	8.2	0.0237	13	88	0.28	0.06	2.96	0.22	31.8	22.7	50	5.80	80.6	5.07	3.56	0.09	0.71	0.01	0.015	0.53	15.8	13.3	1.78	1066	
272	W-272	Pulp	60.31	0.7	15.6	10.1977	15	23	0.34	14.53	2.55	1.79	85.38	25.9	56	3.64	212.1	4.69	2.96	0.18	1.64	0.71	0.021	0.84	60.0	40.6	0.79	855	
273	W-273	Pulp	0.27	3.2	27.5	0.0097	<10	39	0.26	0.04	2.87	0.37	17.44	52.9	159	11.29	120.7	6.73	9.52	0.10	0.50	0.10	0.025	0.46	9.7	44.5	2.96	801	
274	W-274	Pulp	9.75	1.0	5.4	0.7902	18	80	0.82	0.49	3.66	0.26	42.66	27.6	47	5.98	92.5	5.34	4.41	0.15	1.26	0.03	0.013	1.08	23.9	28.3	1.02	734	
275	W-275	Pulp																											
276	W-276	Pulp	0.04	3.9	47.0	0.006	<10	198	<0.05	<0.01	2.21	0.06	5.84	48.9	146	3.62	101.5	5.51	7.34	0.14	0.10	0.01	<0.005	0.88	2.6	26.7	3.56	710	
277	W-277	Pulp																											
278	W-278	Pulp	4.55	0.8	107.8	0.6736	12	76	0.43	0.07	3.51	0.17	34.28	24.2	38	14.85	89.0	4.63	2.71	0.09	0.79	0.07	0.014	0.67	16.0	27.6	1.54	1700	
279	W-279	Pulp																											
280	W-280	Pulp	0.57	0.5	81.1	0.107	<10	62	0.28	0.06	3.08	0.39	28.06	25.1	35	3.37	64.1	4.80	1.94	0.06	0.71	0.04	0.011	0.39	13.5	5.3	1.48	1993	
281	W-281	Pulp																											
282	W-282	Pulp																											
283	W-283	Pulp	0.40	2.1	13.9	0.0348	<10	32	0.19	0.24	5.56	0.07	24.91	33.3	69	0.69	52.0	4.62	6.30	0.07	0.40	0.05	0.012	0.11	11.5	25.2	1.61	911	
284	W-284	Pulp																											
285	W-285	Pulp																											
286	W-286	Pulp																											
287	W-287	Pulp																											
288	W-288	Pulp																											
289	W-289	Pulp																											
290	W-290	Pulp	0.48	0.3	15.6	0.0139	<10	61	0.45	0.27	5.20	0.42	43.97	26.9	22	1.21	88.1	3.39	1.09	0.07	0.78	0.03	0.010	0.17	20.9	2.4	1.02	1039	
291	W-291	Pulp																											
292	W-292	Pulp																											
293	W-293	Pulp																											
294	W-294	Pulp																											
295	W-295	Pulp	0.08	2.4	2.1	0.0049	<10	18	0.14	0.01	5.62	0.05	21.32	30.5	99	0.94	101.4	5.00	8.23	0.08	0.32	0.02	0.018	0.07	9.3	26.6	1.89	875	
296	W-296	Pulp																											
297	W-297	Pulp	0.05	3.5	5.1	0.0035	<10	30	0.10	0.03	3.35	0.03	10.4	37.9	142	1.19	102.8	5.91	8.97	0.14	0.24	0.02	0.007	0.08	4.4	28.9	3.25	787	
298	W-298	Pulp																											
299	W-299	Pulp	0.57	0.4	544.5	0.0365	18	107	0.35	0.10	2.39	0.6	35.76	35.5	39	0.74	40.8	3.87	1.64	0.08	0.52	0.15	0.021	0.25	16.5	3.3	0.66	1114	
300	W-300	Pulp																											
301	W-301	Pulp	0.23	0.9	154.5	0.0104	22	111	0.33	0.12	4.77	0.08	30.97	34.8	37	17.14	42.3	5.90	2.96	0.08	1.47	0.02	0.011	0.78	15.4	14.7	1.66	1389	
302	W-302	Pulp	1.60	1.7	11.2	0.1035	21	233	2.20	0.15	4.94	0.35	29.68	32.8	282	18.04	67.7	4.29	5.91	0.21	1.65	0.04	0.020	1.85	13.9	31.1	4.48	1190	
303	W-303	Pulp	0.30	2.4	146.7	0.0719	<10	14	0.23	0.06	5.61	0.07	26.96	38.9	81	0.93	49.2	7.84	8.45	0.10	0.70	0.02	0.021	0.09	12.1	34.8	2.35	1339	

S. No.	Sample ID	Method Analyte Unit MDL Sample Ty	Molybdenum (Mo) ppm 0.05	Sodium (Na) % 0.01	Niobium (Nb) ppm 0.05	Nickel (Ni) ppm 0.2	Phosphorous (P) ppm 10	Lead (Pb) ppm 0.2	Rubidium (Rb) ppm 0.1	Rhenium (Re) ppm 0.001	Sulphur (S) % 0.01	Antimony (Sb) ppm 0.05	Scandium (Sc) ppm 0.1	Selenium (Se) ppm 0.2	Tin (Sn) ppm 0.2	Strontium (Sr) ppm 0.2	Tantalum (Ta) ppm 0.01	Tellurium (Te) ppm 0.01	Thorium (Th) ppm 0.2	Titanium (Ti) % 0.005	Thallium (Tl) ppm 0.02	Uranium (U) ppm 0.05	Vandium (V) ppm 1	Tungsten (W) ppm 0.05	Yttrium (Y) ppm 0.05	Zinc (Zn) ppm 2	Zirconium (Zr) ppm 0.5
260	W-260	Pulp																									
261	W-261	Pulp	0.55	0.01	<0.05	84.8	856	5.3	4.3	<0.001	0.03	0.17	4.9	<0.2	<0.2	72.4	<0.01	0.04	1.6	0.058	0.06	0.25	63	0.09	9.77	98	15.6
262	W-262	Pulp	4.09	0.02	0.20	28.8	985	287.8	113.9	<0.001	2.04	1.77	2.8	1.8	0.2	726.4	<0.01	0.91	11.1	0.049	1.98	7.33	24	0.99	18.85	104	159.9
263	W-263	Pulp	1.71	0.02	0.10	56.4	1099	12.4	48.1	<0.001	1.07	0.41	8.8	<0.2	0.3	36.9	0.01	0.23	2.5	0.121	1	0.96	122	0.26	10.55	163	24.1
264	W-264	Pulp	1.45	0.06	0.05	41.1	741	3.4	6.9	0.001	0.18	0.33	7	<0.2	<0.2	92.3	<0.01	0.06	1.7	0.064	0.11	0.43	86	0.13	7.85	41	20.1
265	W-265	Pulp	5.45	0.03	<0.05	28.9	849	4.0	8.3	<0.001	1.60	0.50	3.2	0.3	<0.2	107.7	<0.01	0.34	1.6	0.024	0.12	0.27	40	4.11	5.67	53	26.2
266	W-266	Pulp	36.14	0.02	<0.05	47.6	969	21.2	277.0	0.028	3.36	0.62	15.3	3.9	0.3	66.8	<0.01	6.54	1.1	0.282	2.77	2.91	215	0.66	15.65	120	34.9
267	W-267	Pulp	3.62	0.02	<0.05	46.5	695	3.1	22.9	<0.001	0.39	0.39	2.3	<0.2	<0.2	97.2	<0.01	0.13	1.6	0.025	0.56	0.26	34	0.31	4.54	44	26.5
268	W-268	Pulp	120.08	0.02	0.08	38.2	1129	109.1	219.8	0.032	7.47	0.91	11.2	3.4	0.3	44.4	<0.01	5.26	1.5	0.119	2.6	4.39	93	0.85	13.83	235	73.1
269	W-269	Pulp	19.78	<0.01	<0.05	71.2	344	3.4	25.2	0.001	2.86	0.85	3.7	0.5	<0.2	239.4	<0.01	0.06	<0.2	0.007	0.41	0.35	38	0.71	6.61	42	12.4
270	W-270	Pulp	89.11	0.01	0.10	57.7	930	53.1	218.0	0.024	4.20	0.70	7	5.8	0.3	311.3	<0.01	6.08	5.2	0.063	2.25	6.79	71	1.50	17.30	186	61.8
271	W-271	Pulp	4.02	0.05	<0.05	38.2	788	9.2	45.3	<0.001	0.44	0.23	7.6	<0.2	0.2	94.5	<0.01	0.15	1.4	0.061	1.05	0.28	95	0.55	5.64	85	26.7
272	W-272	Pulp	136.41	0.01	0.07	39.0	659	1263.5	102.1	0.077	5.39	2.56	5.3	15.6	<0.2	194.6	<0.01	47.51	1.8	0.025	1.28	4.05	19	0.62	11.59	377	61.7
273	W-273	Pulp	2.02	0.02	0.05	118.6	346	21.5	33.2	0.002	1.96	0.70	13	0.5	<0.2	29.1	<0.01	0.08	0.4	0.15	0.75	0.43	130	0.15	6.17	321	17.7
274	W-274	Pulp	18.55	0.03	<0.05	28.8	770	40.0	143.4	0.014	3.30	0.26	6.1	5.3	<0.2	165.8	<0.01	9.23	1.3	0.09	1.64	0.55	69	1.40	9.52	62	45.8
275	W-275	Pulp																									
276	W-276	Pulp	0.34	0.02	<0.05	143.5	411	0.6	32.1	<0.001	0.03	0.13	2.7	<0.2	<0.2	20.9	<0.01	0.01	0.3	0.203	0.18	0.07	65	0.15	3.32	92	3.8
277	W-277	Pulp																									
278	W-278	Pulp	16.72	0.03	0.19	32.3	814	31.9	63.5	0.001	3.38	2.27	5.2	2	<0.2	88.3	<0.01	3.98	1.2	0.062	1.47	0.27	47	0.77	7.84	99	27.9
279	W-279	Pulp																									
280	W-280	Pulp	12.25	0.04	<0.05	50.3	638	46.6	30.0	0.001	3.65	1.13	4.5	0.5	<0.2	135.6	<0.01	0.89	1.2	0.037	0.7	0.27	32	1.00	4.67	110	26.0
281	W-281	Pulp																									
282	W-282	Pulp																									
283	W-283	Pulp	3.58	0.02	<0.05	75.5	637	5.3	4.1	<0.001	1.14	0.26	3.9	0.3	<0.2	83	<0.01	0.52	1.5	0.042	0.06	0.2	46	0.22	8.34	161	15.7
284	W-284	Pulp																									
285	W-285	Pulp																									
286	W-286	Pulp																									
287	W-287	Pulp																									
288	W-288	Pulp																									
289	W-289	Pulp																									
290	W-290	Pulp	2.53	0.02	0.18	26.4	974	8.0	8.4	0.001	0.63	1.23	2.5	0.3	<0.2	203	<0.01	0.06	2.3	0.045	0.14	0.42	24	2.76	9.98	83	35.6
291	W-291	Pulp																									
292	W-292	Pulp																									
293	W-293	Pulp																									
294	W-294	Pulp																									
295	W-295	Pulp	0.85	0.01	<0.05	83.7	636	2.0	3.5	0.001	0.02	0.28	6.6	<0.2	<0.2	103.3	<0.01	0.02	1	0.049	0.06	0.12	77	0.07	8.68	64	11.3
296	W-296	Pulp																									
297	W-297	Pulp	1.43	0.01	0.09	61.2	706	1.6	5.0	<0.001	0.13	1.26	3.5	<0.2	<0.2	48.3	0.02	0.03	0.7	0.149	0.1	0.08	112	0.29	4.51	76	8.0
298	W-298	Pulp																									
299	W-299	Pulp	6.05	0.06	0.07	75.8	1467	21.4	10.5	0.002	3.25	4.85	3.1	0.6	<0.2	174.5	0.01	0.23	2.5	0.022	0.23	1.4	19	0.89	10.27	148	40.6
300	W-300	Pulp																									
301	W-301	Pulp	4.92	0.04	0.33	74.7	849	9.9	69.2	<0.001	1.93	4.35	4.2	<0.2	<0.2	263.4	0.02	0.03	1.6	0.092	1.64	1.58	40	1.16	8.02	90	59.2
302	W-302	Pulp	11.05	0.04	0.15	145.5	531	13.5	228.9	0.025	1.00	1.50	10	1.2	0.3	390.6	0.01	1.42	3.2	0.186	3.87	1.44	77	0.41	5.76	142	67.8
303	W-303	Pulp	17.22	0.01	<0.05	70.9	801	3.0	4.1	0.001	3.94	1.00	5.8	0.7	<0.2	80	<0.01	0.04	1.3	0.029	0.12	0.17	70	0.41	8.23	53	28.8

S. No.	Sample ID	Method Analyte Unit MDL Sample Type	IMS-130																										
			Silver (Ag) ppm 0.01	Aluminum (Al) ppm 0.01	Arsenic (As) ppm 0.1	Gold (Au) ppm 0.005	Boron (B) ppm 10	Barium (Ba) ppm 10	Beryllium (Be) ppm 0.05	Bismuth (Bi) ppm 0.01	Calcium (Ca) % 0.01	Cadmium (Cd) ppm 0.01	Cerium (Ce) ppm 0.02	Cobalt (Co) ppm 0.1	Chromium (Cr) ppm 1	Cesium (Cs) ppm 0.05	Copper (Cu) ppm 0.2	Iron (Fe) % 0.01	Gallium (Ga) ppm 0.05	Germanium (Ge) ppm 0.05	Hafnium (Hf) ppm 0.02	Mercury (Hg) ppm 0.01	Indium (In) ppm 0.005	Potassium (K) % 0.01	Lanthanum (La) ppm 0.2	Lithium (Li) ppm 0.1	Magnesium (Mg) % 0.01	Manganese (Mn) ppm 5	
QUALITY ASSURANCE / QUALITY CONTROL																													
Pulp Replicates:																													
2	W-002	Pulp	3.39	1.84	19.1	0.808	<10	67	1.12	0.3	0.29	0.10	58.82	28.6	81		21.96	152.5	5.73	10.59	0.21	0.94	0.05	0.031	1.92	33.1	278.1	2.36	224
2 R	W-002 (Rep)	Pulp-Rep	3.27	1.79	17.7	0.740	12	73	1.15	0.28	0.29	0.10	57.47	27.5	79		21.20	146.4	5.56	10.21	0.22	0.87	0.05	0.025	1.86	32.5	279.2	2.3	218
50	W-050	Pulp	0.07	1.90	49.4	0.002	<10	28	0.69	0.04	3.88	0.10	24.66	30.9	65		11.38	55.4	7.04	6.69	0.11	0.75	<0.005	0.020	0.84	10.3	10.6	2.1	1128
50 R	W-050 (Rep)	Pulp-Rep	0.06	1.84	50.2	0.001	<10	27	0.68	0.04	3.81	0.09	24.81	30.3	63		11.48	52.8	6.81	6.57	0.10	0.69	<0.005	0.020	0.80	10.4	10.4	2.05	1104
88	W-088	Pulp	2.43	2.06	35.6	0.295	<10	117	1.15	0.26	0.41	0.30	67.76	36.0	86		18.76	111.9	5.82	6.97	0.14	0.97	0.11	0.013	1.41	38.3	70.7	1.66	258
88 R	W-088 (Rep)	Pulp-Rep	2.48	2.01	36.5	0.299	<10	112	1.14	0.25	0.41	0.32	68.33	37.4	85		19.09	110.6	5.74	7.09	0.14	0.96	0.10	0.012	1.39	38.0	72.3	1.64	255
168	W-168	Pulp	0.15	2.98	40.3	0.032	<10	13	0.23	<0.01	4.47	0.07	16.26	34.4	210		1.10	41.0	6.22	8.67	0.09	0.42	0.02	0.017	0.09	7.2	55.8	3.16	1092
168 R	W-168 (Rep)	Pulp-Rep	0.18	3.17	43.0	0.048	<10	14	0.26	<0.01	4.68	0.07	17.66	37.3	221		1.19	45.2	6.58	9.46	0.08	0.48	0.02	0.021	0.10	7.7	60.4	3.33	1146
217	W-217	Pulp	0.78	0.85	83.0	0.171	<10	90	0.36	0.03	3.18	0.85	50.77	12.9	54		5.17	22.8	5.09	4.37	0.08	3.00	0.24	0.017	0.83	23.9	10.1	1.06	1636
217 R	W-217 (Rep)	Pulp-Rep	0.8	0.83	84.1	0.217	<10	88	0.32	0.03	3.15	0.86	47.67	13.1	52		5.09	23.2	5.03	4.20	0.11	2.99	0.23	0.014	0.81	22.6	9.8	1.05	1631
313	W-313	Pulp	2.27	1.07	38.8	0.239	15	48	0.42	0.69	0.36	0.70	81.31	28.7	42		6.97	51.1	4.37	4.81	0.13	2.41	0.07	0.014	1.22	46.9	60.6	1.33	1121
313 R	W-313 (Rep)	Pulp-Rep	2.21	1.10	37.2	0.232	18	55	0.41	0.67	0.37	0.68	78.46	27.8	41		6.94	50.0	4.46	4.67	0.15	2.39	0.08	0.014	1.27	45.1	58.8	1.35	1141
Certified Reference Material:																													
STD OREAS 601			48.09	0.840	298.3	0.791	<10	186	0.64	21.32	1.07	7.27	43.9	4.50	44.0		1.95	994.4	2.18	5.00	0.17	0.59	0.271	1.717	0.260	21.2	7.80	0.200	440
True Value STD OREAS 601			49.40	0.826	305.0	0.774	<10	271.4	0.62	20.60	1.07	7.81	44.8	4.70	44.2		1.98	1010.0	2.20	5.17	<0.1	<1	<3	1.680	0.251	21.2	7.95	0.195	450
% Difference			-2.7	1.7	-2.2	2.2		-93.1	3.2	3.5	0.0	-6.9	-2.0	-4.3	-0.5		-1.5	-1.5	-0.9	-3.3				2.2	3.6	0.0	-1.9	2.6	-2.2
Tolerance (%)			2.60	0.054	15.0	0.025	IND	NR	0.10	1.50	0.05	0.48	2.4	0.27	7.4		0.15	40.0	0.11	0.28	NR	IND	IND	0.10	0.021	1.50	0.76	0.016	20.0
Certified Reference Material - 2:																													
STD OREAS 601			49.95	0.850	296.0	0.777	<10	131	0.65	20.51	1.06	7.83	45.8	5.00	47.0		2.08	1027.1	2.20	4.94	0.12	0.65	0.281	1.675	0.260	21.3	8.50	0.200	440
True Value STD OREAS 601			49.40	0.826	305.0	0.774	<10	271.4	0.62	20.60	1.07	7.81	44.8	4.70	44.2		1.98	1010.0	2.20	5.17	<0.1	<1	<3	1.680	0.251	21.2	7.95	0.195	450
% Difference			1.1	2.9	-3.0	0.4		-95.2	4.8	-0.4	-0.9	0.3	2.2	6.4	6.3		5.1	1.7	0.0	-4.4				-0.3	3.6	0.5	6.9	2.6	-2.2
Tolerance (%)			2.60	0.054	15.0	0.025	IND	NR	0.10	1.50	0.05	0.48	2.4	0.27	7.4		0.15	40.0	0.11	0.28	NR	IND	IND	0.10	0.021	1.50	0.76	0.016	20.0
Certified Reference Material - 3:																													
STD OREAS 601			48.60	0.840	299.1	0.773	<10	137	0.61	20.19	1.09	7.70	44.8	4.80	43.0		1.96	1051.5	2.23	5.16	0.12	0.62	0.283	1.655	0.260	21.2	8.00	0.200	449
True Value STD OREAS 601			49.40	0.826	305.0	0.774	<10	271.4	0.62	20.60	1.07	7.81	44.8	4.70	44.2		1.98	1010.0	2.20	5.17	<0.1	<1	<3	1.680	0.251	21.2	7.95	0.195	450
% Difference			-1.6	1.7	-1.9	-0.1		-95.0	-1.6	-2.0	1.9	-1.4	-0.1	2.1	-2.7		-1.0	4.1	1.4	-0.2				-1.5	3.6	0.0	0.6	2.6	-0.2
Tolerance (%)			2.60	0.054	15.0	0.025	IND	NR	0.10	1.50	0.05	0.48	2.4	0.27	7.4		0.15	40.0	0.11	0.28	NR	IND	IND	0.10	0.021	1.50	0.76	0.016	20.0
Certified Reference Material - 4:																													
STD OREAS 601			49.29	0.860	313.1	0.755	<10	126	0.62	20.75	1.08	7.80	45.4	4.90	45.0		1.96	1005.9	2.20	4.89	0.13	0.63	0.296	1.665	0.260	21.7	7.50	0.200	483
True Value STD OREAS 601			49.40	0.826	305.0	0.774	<10	271.4	0.62	20.60	1.07	7.81	44.8	4.70	44.2		1.98	1010.0	2.20	5.17	<0.1	<1	<3	1.680	0.251	21.2	7.95	0.195	450
% Difference			-0.2	4.1	2.7	-2.5		-95.4	0.0	0.7	0.9	-0.1	1.3	4.3	1.8		-1.0	-0.4	0.0	-5.4				-0.9	3.6	2.4	-5.7	2.6	7.3
Tolerance (%)			2.60	0.054	15.0	0.025	IND	NR	0.10	1.50	0.05	0.48	2.4	0.27	7.4		0.15	40.0	0.11	0.28	NR	IND	IND	0.10	0.021	1.50	0.76	0.016	20.0
Method Blank:																													
Method Blank - 1			<0.01	<0.01	<0.1	<0.0005	<10	<10	<0.05	<0.01	<0.01	<0.01	<0.02	<0.1	<1		<0.05	<0.2	<0.01	<0.05	<0.05	<0.02	<0.005	<0.005	<0.01	<0.2	<0.1	<0.01	<5
Method Blank - 2			<0.01	<0.01	<0.1	<0.0005	<10	<10	<0.05	<0.01	<0.01	<0.01	<0.02	<0.1	<1		<0.05	<0.2	<0.01	<0.05	<0.05	<0.02	<0.005	<0.005	<0.01	<0.2	<0.1	<0.01	<5
Method Blank - 3			<0.01	<0.01	<0.1	<0.0005	<10	<10	<0.05	<0.01	<0.01	<0.01	<0.02	<0.1	<1		<0.05	<0.2	<0.01	<0.05	<0.05	<0.02	<0.005	<0.005	<0.01	<0.2	<0.1	<0.01	<5
Method Blank - 4			<0.01	<0.01	<0.1	<0.0005	<10	<10	<0.05	<0.01	<0.01	<0.01	0.0	<0.1	<1		<0.05	<0.2	<0.01	<0.05	<0.05	<0.02	<0.005	<0.005	<0.01	<0.2	<0.1	<0.01	<5
Method Blank - 5			<0.01	<0.01	<0.1	<0.0005	<10	<10	<0.05	<0.01	<0.01	<0.01	<0.02	<0.1	<1		<0.05	<0.2	<0.01	<0.05	<0.05	<0.02	<0.005	<0.005	<0.01	<0.2	<0.1	<0.01	<5
Method Blank - 6			<0.01	<0.01	<0.1	<0.0005	<10	<10	<0.05	<0.01	<0.01	<0.01	<0.02	<0.1	<1		<0.05	<0.2	<0.01	<0.05	<0.05	<0.02	<0.005	<0.005	<0.01	<0.2	<0.1	<0.01	<5

		Method	Molybdenum (Mo) ppm 0.05	Sodium (Na) % 0.01	Niobium (Nb) ppm 0.05	Nickel (Ni) ppm 0.2	Phosphorous (P) ppm 10	Lead (Pb) ppm 0.2	Rubidium (Rb) ppm 0.1	Rhenium (Re) ppm 0.001	Sulphur (S) % 0.01	Antimony (Sb) ppm 0.05	Scandium (Sc) ppm 0.1	Selenium (Se) ppm 0.2	Tin (Sn) ppm 0.2	Stronium (Sr) ppm 0.2	Tantalum (Ta) ppm 0.01	Tellurium (Te) ppm 0.01	Thorium (Th) ppm 0.2	Titanium (Ti) % 0.005	Thallium (Tl) ppm 0.02	Uranium (U) ppm 0.05	Vandium (V) ppm 1	Tungsten (W) ppm 0.05	Yttrium (Y) ppm 0.05	Zinc (Zn) ppm 2	Zirconium (Zr) ppm 0.5
S. No.	Sample ID	Analyte Unit MDL Sample Ty																									
QUALITY ASSURANCE / QUALITY CONTROL																											
Pulp Replicates:																											
2	W-002	Pulp	56.50	0.07	0.07	34.4	1038	23.1	327.2	0.012	4.13	0.90	10.9	3.3	0.3	73.9	0.01	5.46	1.2	0.146	3.45	1.94	115	0.53	8.02	96	37.7
2 R	W-002 (Rep)	Pulp-Rep	54.23	0.06	0.06	33.6	1017	22.4	316.1	0.011	4.00	0.75	10.7	3.4	0.3	72.2	<0.01	5.56	1.2	0.142	3.32	1.88	111	0.50	7.76	94	35.9
50	W-050	Pulp	0.74	0.02	0.09	67.7	1060	3.1	72.6	0.001	0.27	1.53	6.9	0.2	<0.2	87.5	<0.01	0.03	1.0	0.131	1.76	0.24	88	0.54	6.86	82	36.5
50 R	W-050 (Rep)	Pulp-Rep	0.72	0.02	0.08	65.9	1043	3.1	72.7	<0.001	0.27	1.61	6.6	0.2	<0.2	86.7	<0.01	0.03	1.0	0.115	1.76	0.23	86	0.49	6.83	80	33.9
88	W-088	Pulp	130.83	0.04	0.05	79.4	1066	39.2	177.6	0.075	2.72	1.00	5.3	1.7	0.2	84.9	<0.01	3.68	2.7	0.169	2.84	3.1	75	2.45	8.40	151	39.7
88 R	W-088 (Rep)	Pulp-Rep	131.85	0.03	<0.05	80.7	1048	37.7	180.8	0.074	2.67	1.01	5.1	1.7	0.2	84.6	<0.01	3.72	2.7	0.167	2.93	3.16	74	2.53	8.47	145	39.7
168	W-168	Pulp	1.65	0.01	<0.05	53.6	431	3.7	4.4	<0.001	1.31	0.70	9.3	<0.2	<0.2	74.3	<0.01	0.02	0.9	0.007	0.13	0.19	79	0.06	7.66	77	16.2
168 R	W-168 (Rep)	Pulp-Rep	1.73	0.01	<0.05	58.1	437	4.0	4.8	<0.001	1.38	0.82	10	<0.2	<0.2	78.3	<0.01	0.02	1.0	0.007	0.14	0.22	83	0.08	8.24	81	18.4
217	W-217	Pulp	14.72	0.02	0.10	12.5	812	27.7	89.8	<0.001	4.03	2.65	3	0.2	0.4	278.3	<0.01	0.42	3.5	0.088	2.26	4.95	17	7.05	14.17	191	132.5
217 R	W-217 (Rep)	Pulp-Rep	15.00	0.02	0.09	12.9	811	27.6	89.1	<0.001	4.04	2.67	2.9	0.2	0.4	275.6	<0.01	0.44	3.3	0.087	2.24	4.82	16	6.60	13.84	193	131.5
313	W-313	Pulp	131.16	0.01	0.11	32.0	667	148.5	149.3	0.01	3.04	1.82	4.3	1.9	0.5	157.9	0.01	2.77	3.3	0.08	2.74	4.09	49	1.16	8.19	248	99.8
313 R	W-313 (Rep)	Pulp-Rep	131.59	0.01	0.10	31.0	677	152.7	148.3	0.008	3.10	1.89	4.2	1.9	0.4	152.5	0.01	2.97	3.2	0.08	2.76	4.1	49	1.11	8.12	251	96.0
Certified Reference Material:																											
STD OREAS 601			3.45	0.07	0.28	23.5	357	274.1	15.5	<0.001	1.04	20.49	1.70	12.3	2.40	34.4	<0.01	15.68	6.5	0.009	0.72	1.85	9.00	1.01	5.64	1320	26.2
True Value STD OREAS 601			3.80	0.07	<1	24.1	360	283.0	16.0	<1	1.04	21.10	1.83	12.3	2.61	36.2	0.099	15.40	6.7	0.010	0.74	1.94	9.24	1.06	5.87	1293	26.7
% Difference			-9.2	0.0		-2.5	-0.8	-3.1	-3.1		0.0	-2.9	-7.1	0.0	-8.0	-5.0		1.8	-3.0	-12.6	-2.7	-4.6	-2.6	-4.7	-3.9	2.1	-1.9
Tolerance (%)			0.95	IND	IND	3.80	40.0	16.0	1.3	NR	0.06	2.30	0.19	1.1	0.21	2.1	NR	1.80	0.42	IND	0.08	0.19	1.42	0.15	0.40	47.0	2.1
Certified Reference Material - 2:																											
STD OREAS 601			3.77	0.07	0.26	26.1	363	289.1	16.1	<0.001	1.03	20.27	1.80	12.8	2.50	35.9	<0.01	16.32	6.7	0.009	0.75	1.96	10.00	1.02	6.03	1281	26.1
True Value STD OREAS 601			3.80	0.07	<1	24.1	360	283.0	16.0	<1	1.04	21.10	1.83	12.3	2.61	36.2	0.099	15.40	6.7	0.010	0.74	1.94	9.24	1.06	5.87	1293	26.7
% Difference			-0.8	0.0		8.3	0.8	2.2	0.6		-1.0	-3.9	-1.6	4.1	-4.2	-0.8		6.0	0.0	-12.6	1.4	1.0	8.2	-3.8	2.7	-0.9	-2.2
Tolerance (%)			0.95	IND	IND	3.80	40.0	16.0	1.3	NR	0.06	2.30	0.19	1.1	0.21	2.1	NR	1.80	0.42	IND	0.08	0.19	1.42	0.15	0.40	47.0	2.1
Certified Reference Material - 3:																											
STD OREAS 601			3.54	0.07	0.28	22.7	358	285.0	15.5	<0.001	1.05	20.85	1.80	12.2	2.50	35.6	<0.01	15.89	6.3	0.009	0.73	1.87	10.00	1.02	5.79	1329	26.1
True Value STD OREAS 601			3.80	0.07	<1	24.1	360	283.0	16.0	<1	1.04	21.10	1.83	12.3	2.61	36.2	0.099	15.40	6.7	0.010	0.74	1.94	9.24	1.06	5.87	1293	26.7
% Difference			-6.8	0.0		-5.8	-0.6	0.7	-3.1		1.0	-1.2	-1.6	-0.8	-4.2	-1.7		1.9	-6.0	-12.6	-1.4	-3.6	8.2	-3.8	2.7	-1.8	-2.2
Tolerance (%)			0.95	IND	IND	3.80	40.0	16.0	1.3	NR	0.06	2.30	0.19	1.1	0.21	2.1	NR	1.80	0.42	IND	0.08	0.19	1.42	0.15	0.40	47.0	2.1
Certified Reference Material - 4:																											
STD OREAS 601			3.71	0.09	0.21	23.9	360	290.4	15.9	<0.001	1.05	19.82	1.90	12.5	2.50	35.5	<0.01	15.56	6.8	0.010	0.77	1.95	12.00	1.01	5.92	1302	25.4
True Value STD OREAS 601			3.80	0.07	<1	24.1	360	283.0	16.0	<1	1.04	21.10	1.83	12.3	2.61	36.2	0.099	15.40	6.7	0.010	0.74	1.94	9.24	1.06	5.87	1293	26.7
% Difference			-2.4	28.6		-0.8	0.0	2.6	-0.6		1.0	-6.1	3.8	1.6	-4.2	-1.9		1.0	1.5	-2.9	4.1	0.5	29.9	-4.7	0.9	0.7	-4.9
Tolerance (%)			0.95	IND	IND	3.80	40.0	16.0	1.3	NR	0.06	2.30	0.19	1.1	0.21	2.1	NR	1.80	0.42	IND	0.08	0.19	1.42	0.15	0.40	47.0	2.1
Method Blank:																											
Method Blank - 1			<0.05	<0.01	<0.05	<0.2	<10	<0.2	<0.1	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	<0.2	<0.01	<0.01	<0.2	<0.005	<0.02	<0.05	<1	<0.05	<0.05	<1	<0.5
Method Blank - 2			<0.05	<0.01	<0.05	<0.2	<10	<0.2	0.1	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	<0.2	<0.01	<0.01	<0.2	<0.005	<0.02	<0.05	<1	<0.05	<0.05	<1	<0.5
Method Blank - 3			<0.05	<0.01	<0.05	<0.2	<10	<0.2	<0.1	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	<0.2	<0.01	<0.01	<0.2	<0.005	<0.02	<0.05	<1	<0.05	<0.05	<1	<0.5
Method Blank - 4			<0.05	<0.01	<0.05	<0.2	<10	<0.2	<0.1	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	<0.2	<0.01	<0.01	<0.2	<0.005	<0.02	<0.05	<1	<0.05	<0.05	<1	<0.5
Method Blank - 5			<0.05	<0.01	<0.05	<0.2	<10	<0.2	<0.1	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	<0.2	<0.01	<0.01	<0.2	<0.005	<0.02	<0.05	<1	<0.05	<0.05	<1	<0.5
Method Blank - 6			<0.05	<0.01	<0.05	<0.2	<10	<0.2	<0.1	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	<0.2	<0.01	<0.01	<0.2	<0.005	<0.02	<0.05	<1	<0.05	<0.05	<1	<0.5

CERTIFICATE OF ANALYSIS • SINGLE ADDITION NAG RESULTS (EGi Method)

PAGE: 5 of 9

GLOBAL PROJECT NO: 1956 (B8)

CLIENT: First Mining Gold Corp.

PROJECT NAME: Springpole

PROJECT NO: ONS2104

REPORT VERSION: 3

S. No:	Sample ID	Pulp Sample Weight (g)	Vol. of 15% H ₂ O ₂ (mL)	NAG pH (pH Units)	NaOH to pH 4.5 (mL)	NaOH to pH 7.0 (mL)	NaOH Conc. (N)	NAG Acidity pH 4.5 (kg H ₂ SO ₄ /tonne)	NAG Acidity pH 7.0 (kg H ₂ SO ₄ /tonne)	% RPD		
										to pH 4.5	to pH 7.0	Acceptance Criteria
3	W-003	2.5	250	8.18	0.00	0.00	0.1	0.0	0.0			
6	W-006	2.5	250	8.15	0.00	0.00	0.1	0.0	0.0			
9	W-009	2.5	250	2.72	7.15	18.10	0.1	14.0	35.5			
14	W-014	2.5	250	2.17	33.00	38.95	0.1	64.7	76.3			
22	W-022	2.5	250	2.50	12.25	15.55	0.1	24.0	30.5			
28	W-028	2.5	250	7.30	0.00	0.00	0.1	0.0	0.0			
30	W-030	2.5	250	2.34	22.88	26.40	0.1	44.8	51.7			
32	W-032	2.5	250	8.01	0.00	0.00	0.1	0.0	0.0			
33	W-033	2.5	250	8.39	0.00	0.00	0.1	0.0	0.0			
41	W-041	2.5	250	8.52	0.00	0.00	0.1	0.0	0.0			
42	W-042	2.5	250	8.46	0.00	0.00	0.1	0.0	0.0			
46	W-046	2.5	250	3.87	0.50	1.80	0.1	1.0	3.5			
50	W-050	2.5	250	8.54	0.00	0.00	0.1	0.0	0.0			
52	W-052	2.5	250	7.39	0.00	0.00	0.1	0.0	0.0			
53	W-053	2.5	250	2.36	20.90	24.80	0.1	41.0	48.6			
54	W-054	2.5	250	7.95	0.00	0.00	0.1	0.0	0.0			
55	W-055	2.5	250	2.45	15.50	18.40	0.1	30.4	36.1			
59	W-059	2.5	250	8.39	0.00	0.00	0.1	0.0	0.0			
60	W-060	2.5	250	8.15	0.00	0.00	0.1	0.0	0.0			
63	W-063	2.5	250	8.19	0.00	0.00	0.1	0.0	0.0			
65	W-065	2.5	250	7.82	0.00	0.00	0.1	0.0	0.0			
67	W-067	2.5	250	8.44	0.00	0.00	0.1	0.0	0.0			
70	W-070	2.5	250	8.23	0.00	0.00	0.1	0.0	0.0			
72	W-072	2.5	250	2.87	7.20	10.90	0.1	14.1	21.4			
73	W-073	2.5	250	8.21	0.00	0.00	0.1	0.0	0.0			
77	W-077	2.5	250	8.55	0.00	0.00	0.1	0.0	0.0			
79	W-079	2.5	250	8.14	0.00	0.00	0.1	0.0	0.0			
81	W-081	2.5	250	8.24	0.00	0.00	0.1	0.0	0.0			
82	W-082	2.5	250	8.33	0.00	0.00	0.1	0.0	0.0			
86	W-086	2.5	250	8.03	0.00	0.00	0.1	0.0	0.0			
88	W-088	2.5	250	2.40	19.50	24.60	0.1	38.2	48.2			
91	W-091	2.5	250	8.31	0.00	0.00	0.1	0.0	0.0			
102	W-102	2.5	250	8.81	0.00	0.00	0.1	0.0	0.0			
105	W-105	2.5	250	2.81	9.70	14.00	0.1	19.0	27.4			
126	W-126	2.5	250	8.61	0.00	0.00	0.1	0.0	0.0			
137	W-137	2.5	250	7.84	0.00	0.00	0.1	0.0	0.0			
139	W-139	2.5	250	2.71	12.35	18.10	0.1	24.2	35.5			
150	W-150	2.5	250	2.73	9.95	14.90	0.1	19.5	29.2			

151	W-151	2.5	250	8.02	0.00	0.00	0.1	0.0	0.0			
173	W-173	2.5	250	2.46	17.20	23.25	0.1	33.7	45.6			
180	W-180	2.5	250	3.03	2.80	3.90	0.1	5.5	7.6			
196	W-196	2.5	250	8.50	0.00	0.00	0.1	0.0	0.0			
200	W-200	2.5	250	8.75	0.00	0.00	0.1	0.0	0.0			
202	W-202	2.5	250	9.45	0.00	0.00	0.1	0.0	0.0			
206	W-206	2.5	250	8.30	0.00	0.00	0.1	0.0	0.0			
207	W-207	2.5	250	8.58	0.00	0.00	0.1	0.0	0.0			
208	W-208	2.5	250	8.13	0.00	0.00	0.1	0.0	0.0			
211	W-211	2.5	250	8.36	0.00	0.00	0.1	0.0	0.0			
215	W-215	2.5	250	8.62	0.00	0.00	0.1	0.0	0.0			
217	W-217	2.5	250	8.42	0.00	0.00	0.1	0.0	0.0			
221	W-221	2.5	250	8.07	0.00	0.00	0.1	0.0	0.0			
222	W-222	2.5	250	9.59	0.00	0.00	0.1	0.0	0.0			
234	W-234	2.5	250	8.36	0.00	0.00	0.1	0.0	0.0			
241	W-241	2.5	250	8.68	0.00	0.00	0.1	0.0	0.0			
245	W-245	2.5	250	9.09	0.00	0.00	0.1	0.0	0.0			
253	W-253	2.5	250	7.95	0.00	0.00	0.1	0.0	0.0			
261	W-261	2.5	250	8.71	0.00	0.00	0.1	0.0	0.0			
263	W-263	2.5	250	8.24	0.00	0.00	0.1	0.0	0.0			
266	W-266	2.5	250	2.53	16.00	20.90	0.1	31.4	41.0			
267	W-267	2.5	250	8.44	0.00	0.00	0.1	0.0	0.0			
272	W-272	2.5	250	8.11	0.00	0.00	0.1	0.0	0.0			
278	W-278	2.5	250	8.02	0.00	0.00	0.1	0.0	0.0			
299	W-299	2.5	250	8.03	0.00	0.00	0.1	0.0	0.0			
301	W-301	2.5	250	8.36	0.00	0.00	0.1	0.0	0.0			
306	W-306	2.5	250	8.59	0.00	0.00	0.1	0.0	0.0			
312	W-312	2.5	250	8.29	0.00	0.00	0.1	0.0	0.0			
QAQC:												
Replicates:												
41	W-041	2.5	250	8.52	0.00	0.00	0.1	0.0	0.0			
41D	W-041 (D)	2.5	250	8.53	0.00	0.00	0.1	0.0	0.0	0%	0%	10%
63	W-063	2.5	250	8.19	0.00	0.00	0.1	0.0	0.0			
63D	W-063 (D)	2.5	250	8.19	0.00	0.00	0.1	0.0	0.0	0%	0%	10%
86	W-086	2.5	250	8.03	0.00	0.00	0.1	0.0	0.0			
86D	W-086 (D)	2.5	250	8.01	0.00	0.00	0.1	0.0	0.0	0%	0%	10%
173	W-173	2.5	250	2.46	17.20	23.25	0.1	33.7	45.6			
173D	W-173 (D)	2.5	250	2.39	17.80	24.80	0.1	34.9	48.6	3%	6%	10%
217	W-217	2.5	250	8.42	0.00	0.00	0.1	0.0	0.0			
217D	W-217 (D)	2.5	250	8.2	0.00	0.00	0.1	0.0	0.0	0%	0%	10%
267	W-267	2.5	250	8.44	0.00	0.00	0.1	0.0	0.0			
267D	W-267 (D)	2.5	250	8.45	0.00	0.00	0.1	0.0	0.0	0%	0%	10%
Method Blank Analysis:												
Method Blank (15% H ₂ O ₂ Sc		N/A	250	5.21	0.00	8.35	0.1					
GLOBAL SOP NO:		ARD-017										

NOTES:

Date of Analysis: Aug 3 - 5, 2021

pH (pH Units) of DI water used to prepare 15% H₂O₂: 5.64

EC (µS/cm) of DI water used to prepare 15% H₂O₂: 0.61

pH (pH Units) of 15% H₂O₂ (buffered with 0.5 N NaOH): 5.55

EC (µS/cm) of 15% H₂O₂ (buffered with 0.5 N NaOH): 8.0

Solid:Liquid ratio used: 1:100; 2.5 g Pulp Sample: 250 mL 15% H₂O₂.

pH measurement of 15% H₂O₂ solution was conducted at room temperature & buffered with 0.5N NaOH solution to ensure a pH between 4 and 7.

NAG pH & method blank pH measurements were taken after digesting with peroxide solution and making up the solution to its original volume of 250 mL with DI water.

On client's request the NAG procedure is repeated using 1 g of pulp sample when the NAG value for pH 4.5 exceeds 25 kg H₂SO₄ per tonne.

ABBREVIATIONS:

R = Replicate (i.e. using a pulp sample from the same bag).

D = Duplicate (i.e. client sample is processed to produced a 2nd pulp bag & analyzed as a duplicate).

RPD = Relative Percent Difference.

Calc. = Calculation

REFERENCE:

Egi - Environmental Geochemistry International; Single Addition Net Acid Generation (NAG) Test Procedure; Miller et al; Revised Dec. 2006; Page 2 to 4.

CERTIFICATE OF ANALYSIS • SINGLE ADDITION NAG EXTRACT RESULTS

PAGE: 6 of 9
GLOBAL PROJECT NO: 1056 (B8)
CLIENT: First Mining Gold Corp.
PROJECT NAME: Springrole
PROJECT NO: ONS2104
REPORT VERSION: 3

Parameter	Method	Unit	RDL	9	14	22	30	46	53	55	72	88	105	105 D	139	150	173	180	266	Method Blank	
				Sample ID																	
				W-009	W-014	W-022	W-030	W-046	W-053	W-055	W-072	W-088	W-105	W-105 (Dup)	W-139	W-150	W-173	W-180	W-266		
Weight of pulp sample used	Weighing Scale	g	0.01	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	N/A	
Volume of 15% H ₂ O ₂ used	Graduated Cylinder	mL	0.50	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	
On filtered samples (using 0.45 µm filter paper):																					
pH	Meter	pH units	0.01	2.8	2.2	2.5	2.3	3.8	2.4	2.5	2.9	2.4	2.6	2.7	2.6	2.8	2.4	3.3	2.5	5.6	
EC	Meter	mV	1.0	1069	3450	1600	2270	289	2220	1692	866	2210	1283	1226	2570	1115	2000	313	1890	8.6	
Acidity (to pH 8.3)	Titration	mg CaCO ₃ /L	0.5	368.5	760.3	340.0	516.9	68.8	500.6	374.9	224.9	478.6	294.2	275.8	402.6	225.7	462.3	93.7	397.1	1270.0	
Total Alkalinity (to pH 4.5)	Titration	mg CaCO ₃ /L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	7.2	
Sulphate	Colourimetry	mg/L	0.5	328	618	262	412	86	498	298	231	447	284	257	1084	260	402	81	373	<0.5	
Phosphorus Dissolved	IC	mg/L	0.0050	<0.0050	0.015	0.115	0.007	0.035	0.008	<0.0050	0.009	0.026	0.026	0.026	<0.0050	0.03	0.279	<0.0050	0.017		
Dissolved Metals Analysis by ICP-MS:																					
Dissolved Hardness (CaCO ₃)	ICP-MS	mg/L	0.5	62.2	57.8	31.2	18.8	54.0	105.0	30.3	111.0	67.8	39.2	39.6	828.0	71.2	77.8	28.3	102.0	<0.5	
Aluminum Dissolved	ICP-MS	mg/L	0.001	3.57	5.07	8.36	8.99	1.46	9	7.65	10.2	7.17	7.09	6.4	4.39	6.46	8.39	3.49	5.91	0.005	
Antimony Dissolved	ICP-MS	mg/L	0.0001	<0.0001	<0.0001	<0.0001	0.0002	<0.0001	<0.0001	<0.0001	0.0009	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0009	
Arsenic Dissolved	ICP-MS	mg/L	0.0002	0.0013	0.0017	0.0011	0.0046	<0.0002	0.0006	0.0009	0.0022	0.0027	0.0011	0.001	0.0043	0.0018	<0.0002	0.0014	0.0012	<0.0002	
Barium Dissolved	ICP-MS	mg/L	0.0002	0.184	0.071	0.17	0.167	0.0196	0.107	0.196	0.0721	0.126	0.116	0.107	0.0711	0.262	0.137	0.381	0.137	0.0014	
Beryllium Dissolved	ICP-MS	mg/L	0.0001	0.0042	0.0043	0.003	0.0009	0.0015	0.0016	0.0016	0.0019	0.0043	0.0026	0.0024	0.0001	0.0028	0.003	0.0018	0.0074	<0.0001	
Bismuth Dissolved	ICP-MS	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Boron Dissolved	ICP-MS	mg/L	0.01	0.03	0.06	0.02	<0.01	<0.01	0.01	0.05	0.03	<0.01	0.02	<0.01	0.01	0.01	<0.01	<0.01	<0.01	<0.01	
Cadmium Dissolved	ICP-MS	mg/L	0.00001	0.0023	0.00213	0.0002	0.00287	0.00094	0.00137	0.00017	0.0122	0.00181	0.00116	0.00109	0.0482	0.00202	0.00529	0.00347	0.00168	0.00004	
Calcium Dissolved	ICP-MS	mg/L	0.05	16.6	16.4	8.4	4.5	14.5	24.4	7.4	39.6	17.5	8.7	9.1	224.0	12.3	24.6	8.9	28.8	0.05	
Chromium Dissolved	ICP-MS	mg/L	0.0005	0.0092	0.0399	0.0050	0.0156	0.0049	0.0096	0.0067	0.0105	0.0157	0.0113	0.0123	0.0106	0.0031	0.0255	0.0103	0.0148	0.003	
Cobalt Dissolved	ICP-MS	mg/L	0.0001	0.305	0.168	0.37	0.109	0.0786	0.155	0.229	0.0675	0.236	0.286	0.286	0.211	0.272	0.131	0.0337	0.279	0.0001	
Copper Dissolved	ICP-MS	mg/L	0.0005	0.547	1.62	0.602	0.565	0.257	0.333	1.38	0.259	0.76	0.448	0.44	0.233	0.952	2.31	0.0796	1.67	0.0006	
Iron Dissolved	ICP-MS	mg/L	0.02	83.7	69.4	4.35	24.7	0.06	23	12.1	3.96	29.7	14.7	14.5	27	5.5	34.6	0.27	19	<0.01	
Lead Dissolved	ICP-MS	mg/L	0.0005	0.0235	0.197	0.0073	0.0103	0.001	0.229	0.0162	1.87	0.171	0.0201	0.0183	3.09	0.0279	0.28	0.0604	0.0533	<0.0005	
Lithium Dissolved	ICP-MS	mg/L	0.0005	0.0564	0.0745	0.0433	0.0075	0.0067	0.0152	0.0230	0.0164	0.0535	0.0517	0.0475	0.0067	0.0908	0.0366	0.0047	0.1910	<0.0005	
Magnesium Dissolved	ICP-MS	mg/L	0.05	5.0	4.1	2.5	1.8	4.3	10.6	2.9	5.9	4.3	4.1	65.2	9.8	4.0	15	7.3	<0.005		
Manganese Dissolved	ICP-MS	mg/L	0.0002	40.5	0.211	0.0408	0.0867	9.36	3.99	0.115	4.16	0.264	11.6	11.1	14.2	8.06	0.392	0.863	13.3	0.0009	
Mercury Dissolved	ICP-MS	mg/L	0.0005	<0.00001	<0.00001	<0.00001	<0.00001	0.00002	0.00004	0.00001	<0.00001	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Molybdenum Dissolved	ICP-MS	mg/L	0.0005	0.0001	0.0008	0.0002	0.0017	0.0352	0.0005	0.0003	0.0101	0.0036	0.0001	0.0001	0.0001	<0.0001	0.0237	0.0198	0.0003	0.0006	
Nickel Dissolved	ICP-MS	mg/L	0.0005	0.116	0.134	0.0847	0.088	0.0444	0.111	0.0867	0.0662	0.134	0.151	0.154	0.133	0.0395	0.0779	0.0281	0.0763	0.0016	
Phosphorus Dissolved	ICP-MS	mg/L	0.05	<0.05	<0.05	0.15	<0.05	0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.26	0.06	<0.05	0.23	
Potassium Dissolved	ICP-MS	mg/L	0.05	11.1	8.14	14.3	11.8	2.88	15.2	10.7	10.2	16.5	17.5	15.7	8.83	38	17.2	5.53	16.2	0.15	
Selenium Dissolved	ICP-MS	mg/L	0.0005	0.0244	0.0304	0.0052	0.0126	0.0019	0.0065	0.0105	0.0134	0.0104	0.0035	0.0039	0.0368	0.0116	0.0126	0.0094	0.0195	0.0007	
Silicon Dissolved	ICP-MS	mg/L	0.05	7.4	8.36	8.83	6.46	5.94	7.7	6.77	12	9.24	7.65	7.84	5.36	9.13	6.66	5.29	11.2	<0.05	
Silver Dissolved	ICP-MS	mg/L	0.00008	0.00835	0.0223	0.00443	0.00556	0.00159	0.00498	0.011	0.00097	0.0104	0.00212	0.00199	0.00385	0.00543	0.00748	0.00348	0.0241	0.00097	
Sodium Dissolved	ICP-MS	mg/L	0.02	3.48	6.34	2.75	2.93	3.58	3.58	9	3.27	4.25	4.13	4.11	3.75	4.05	3.55	2.94	3.28	2.76	
Strontium Dissolved	ICP-MS	mg/L	0.0002	0.393	0.44	0.11	0.75	0.172	1.35	0.076	2.92	0.536	0.106	0.101	2.42	0.0706	0.21	1.15	0.418	<0.0002	
Sulphur Dissolved	ICP-MS	mg/L	0.5	122.0	219.0	90.0	133.0	28.6	156.0	96.1	58.5	142.0	88.7	84.6	370.0	90.0	139.0	27.1	133.0	<0.5	
Tellurium Dissolved	ICP-MS	mg/L	0.0002	0.0048	0.0376	0.0038	0.0219	<0.0002	0.0054	0.0103	0.0011	0.0113	0.0007	0.0008	0.0027	0.0052	0.0096	0.001	0.0115	<0.0002	
Thallium Dissolved	ICP-MS	mg/L	0.00005	0.00113	0.00067	0.00287	0.00132	0.00014	0.00141	0.00137	0.00161	0.00279	0.00234	0.00217	0.00107	0.00296	0.00182	0.00043	0.00092	0.00007	
Thorium Dissolved	ICP-MS	mg/L	0.0001	0.0003	0.0031	0.001	0.0122	<0.0001	0.0034	0.0009	0.0096	0.0028	0.0008	0.001	0.0019	0.0002	0.0009	<0.0001	0.0008	<0.0001	
Tin Dissolved	ICP-MS	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.127	
Titanium Dissolved	ICP-MS	mg/L	0.0005	0.003	0.0054	0.0035	0.0043	0.0024	0.0057	0.0037	0.0437	0.0067	0.0032	0.0031	0.0031	0.0043	0.0058	0.0026	0.0057	0.0161	
Tungsten Dissolved	ICP-MS	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0003	0.0001	<0.0001	<0.0001	0.0026	<0.0001	
Uranium Dissolved	ICP-MS	mg/L	0.00005	0.00422	0.00748	0.00262	0.0251	0.00016	0.00905	0.00252	0.0433	0.0111	0.00429	0.00415	0.00354	0.00268	0.00885	0.00447	0.0102	<0.00005	
Vanadium Dissolved	ICP-MS	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	0.007	<0.001	<0.001	0.006	0.001	<0.001	<0.001	<0.001	<0.001	0.004	0.003	0.001	<0.001	
Zinc Dissolved	ICP-MS	mg/L	0.001	0.784	0.066	0.083	0.040	0.237	0.134	0.108	0.936	0.174	0.201	0.204	15.800	2.275	0.800	0.229	0.053	0.011	
Zirconium Dissolved	ICP-MS	mg/L	0.0001	0.0001	0.0004	0.0002	0.0007	0.0002	0.0004	0.0002	0.0010	0.0006	0.0001	0.0003	0.0004	<0.0001	0.0002	0.0003	0.0003	0.0005	
Ion Balance:																					
Major Anions	Calc.	meq/L		6.79	12.88	5.45	8.58	1.79	10.37	6.21	4.82	9.31	5.91	5.35	22.59	5.42	8.37	1.68	7.78		
Major Cations	Calc.	meq/L		8.08	11.42	5.34	7.28	2.00	8.82	5.63	5.39	7.96	5.46	5.20	21.95	5.51	8.09	1.81	7.82		
Difference	Calc.	meq/L		1.29	-1.45	-0.11	-1.31	0.21	-1.55	-0.58	0.57	-1.35	-0.45	-0.15	-0.65	0.09	-0.28	0.14	0.05		
Balance (%)	Calc.	%		8.7%	-6.0%	-1.0%	-8.3%	5.5%	-8.1%	-4.9%	5.6%	-7.8%	-4.0%	-1.5%	-1.4%	0.9%	-1.7%	3.9%	0.3%		
NAG Extract ID:				2872112	2872113	2872114	2872115	2872116	2872117	2872118	2872119	2872120	2872121	2872128	2872122	2872123	2872124	2872125	2872126	2872127	

CERTIFICATE OF ANALYSIS - NAG EXTRACT QA/QC RESULTS



PAGE: 7 of 9
 GLOBAL PROJECT NO: 1956 (B8)
 CLIENT: First Mining Gold Corp.
 PROJECT NAME: Springpole
 PROJECT NO: ONS2104
 REPORT VERSION: 3

Phosphorous QA/QC

Sample Code	Parameter	Result	Result Units	Total or Filtered	Method Type	Method Name	Date Analyzed	EQL	EQL Units	UCL	LCL
WO-21H1361											
21H1361_B1H1538-BLK1	Phosphor	<0.0050	mg/L	F	General	FSM 4500-P F	17-Aug-21	0.005	mg/L		
21H1361_B1H1538-BS1	Phosphor	109	%	F	General	FSM 4500-P F	17-Aug-21	1	%	115	85

Dissolved Metals by ICP-MS:

Parameter	Batch	Sample ID	Dup #1	Dup #2	RPD	Method Blank	Reference Material	Lower	Upper	Method Blank Spike	Lower	Upper
NAG Extract - Dissolved Metals:												
Aluminum Dissolved	2872122		4.39	4.32	1.6%	< 0.001	80%	70%	130%	94%	85%	115%
Antimony Dissolved	2872122		<0.0001	<0.0001	NA	< 0.0001	99%	70%	130%	103%	85%	115%
Arsenic Dissolved	2872122		0.0043	0.0046	6.7%	< 0.0002	102%	70%	130%	94%	85%	115%
Barium Dissolved	2872122		0.0711	0.0723	1.7%	< 0.0002	101%	70%	130%	106%	85%	115%
Beryllium Dissolved	2872122		0.0010	0.0010	0.3%	< 0.0001	96%	70%	130%	101%	85%	115%
Bismuth Dissolved	2872122		<0.0001	<0.0001	NA	< 0.0001				102%	85%	115%
Boron Dissolved	2872122		0.01	0.01	NA	< 0.01	89%	70%	130%	102%	85%	115%
Calcium Dissolved	2872122		224	225	0.2%	< 0.05	99%	70%	130%	103%	85%	115%
Cadmium Dissolved	2872122		0.0482	0.0484	0.5%	< 0.00001	97%	70%	130%	101%	85%	115%
Chromium Dissolved	2872122		0.0106	0.0110	3.6%	< 0.0005	94%	70%	130%	99%	85%	115%
Cobalt Dissolved	2872122		0.211	0.213	1.0%	< 0.0001	114%	70%	130%	112%	85%	115%
Copper Dissolved	2872122		0.233	0.235	1.2%	< 0.0005	97%	70%	130%	99%	85%	115%
Iron Dissolved	2872122		27.0	26.8	0.5%	< 0.01				102%	85%	115%
Lead Dissolved	2872122		3.09	3.08	0.3%	< 0.0005	107%	70%	130%	108%	85%	115%
Lithium Dissolved	2872122		0.0067	0.0070	4.4%	< 0.0005				103%	85%	115%
Magnesium Dissolved	2872122		65.2	65.4	0.3%	< 0.005	95%	70%	130%	93%	85%	115%
Manganese Dissolved	2872122		14.2	14.1	0.7%	< 0.0002	82%	70%	130%	86%	85%	115%
Molybdenum Dissolved	2872122		0.0001	0.0001	NA	< 0.0001				100%	85%	115%
Nickel Dissolved	2872122		0.133	0.134	1.3%	< 0.0005	97%	70%	130%	93%	85%	115%
Potassium Dissolved	2872122		8.83	8.69	1.7%	< 0.05	90%	70%	130%	92%	85%	115%
Phosphorus Dissolved	2872122		<0.05	<0.05	NA	< 0.05	107%	70%	130%	105%	85%	115%
Selenium Dissolved	2872122		0.0368	0.0353	4.2%	< 0.0005	106%	70%	130%	101%	85%	115%
Silicon Dissolved	2872122		5.36	5.35	0.2%	< 0.05				91%	85%	115%
Silver Dissolved	2872122		0.00385	0.00368	4.5%	< 0.00008				101%	85%	115%
Sodium Dissolved	2872122		3.75	3.69	1.6%	< 0.02				98%	85%	115%
Sulphur Dissolved	2872122		370	368	0.5%	< 0.5				106%	85%	115%
Strontium Dissolved	2872122		2.42	2.43	0.4%	< 0.0002	86%	70%	130%	87%	85%	115%
Tellurium Dissolved	2872122		0.0027	0.0025	7.7%	< 0.0002				106%	85%	115%
Thallium Dissolved	2872122		0.00107	0.00111	3.7%	< 0.00005	103%	70%	130%	102%	85%	115%
Thorium Dissolved	2872122		0.0019	0.0017	11.1%	< 0.0001				103%	85%	115%
Titanium Dissolved	2872122		0.0031	0.0030	3.3%	< 0.0005				105%	85%	115%
Tin Dissolved	2872122		0.0009	<0.0005	NA	< 0.0005				101%	85%	115%
Tungsten Dissolved	2872122		0.0001	<0.0001	NA	< 0.0001				101%	85%	115%
Uranium Dissolved	2872122		0.00354	0.00359	1.4%	< 0.00005	106%	70%	130%	106%	85%	115%
Vanadium Dissolved	2872122		<0.001	<0.001	NA	< 0.001	98%	70%	130%	102%	85%	115%
Zinc Dissolved	2872122		15.8	15.7	0.6%	< 0.001	101%	70%	130%	90%	85%	115%
Zirconium Dissolved	2872122		0.0004	0.0003	NA	< 0.0001				93%	85%	115%
Mercury Dissolved	2864069		<0.00001	<0.00001	NA	< 0.00001	107%	70%	130%	96%	80%	120%

NOTES:

Job No: 21V790351

Greyed data does not belong to this report.

RPDs are calculated using raw analytical data and not the rounded duplicate values reported.

Abbreviations & Descriptions:

Method Blank (BLK): A blank sample that undergoes sample processing identical to that carried out for the test samples.

Method Blank results are used to assess contamination from the laboratory environment and reagents.

Duplicate (Dup): An additional or second portion of a randomly selected sample in the analytical run carried through the entire analytical process.

Duplicates provide a measure of the analytical method's precision (reproducibility).

Blank Spike (BS): A sample of known concentration which undergoes processing identical to that carried out for test samples, also referred to as a laboratory control sample (LCS).

Blank spikes provide a measure of the analytical method's accuracy.

Matrix Spike (MS): A second aliquot of sample is fortified with a known concentration of target analytes and carried through the entire analytical process.

Matrix spikes evaluate potential matrix effects that may affect the analyte recovery.

Standard Reference Material (SRM): A homogenous material of similar matrix to the samples, certified for the parameter(s) listed.

Reference Materials ensure that the analytical process is adequate to achieve acceptable recoveries of the parameter(s) tested.

Each QC type is analyzed at a 5-10% frequency, i.e. one blank/duplicate/spike for every 10-20 samples.

For all types of QC, specified recovery (% Rec) and relative percent difference (RPD) limits are derived from long-term method performance averages and/or prescribed by the reference method.

EQL = Estimated Quantitation Limits

PQL = Practical Quantitation Limits

UCL = Upper Control Limit

LCL = Lower Control Limit

BLK = Blank

BS = Blank Spike

MS = Matrix Spike

DUP = Duplicate

SRM = Standard Reference Materials

CERTIFICATE OF ANALYSIS - MEND-SHAKE FLASK EXTRACTION RESULTS

PAGE: 8a of 9
GLOBAL PROJECT NO: 1956 (B8)
CLIENT: First Mining G
PROJECT NAME: Springpole
PROJECT NO: ONS2104
REPORT VERSION: 3

Parameter	Method	Unit	RDL	3	6	6 R	9	14	22	28	30	32
				Sample ID								
				W-003	W-006	W-006 (Rep)	W-009	W-014	W-022	W-028	W-030	W-032
Weight of dry sample used	Weighing Scale	g	0.01	250	250	N/A	250	250	250	250	250	250
Volume of DI water used	Graduated Cylinder	mL	0.50	750	750	N/A	750	750	750	750	750	750
On filtered samples (using 0.45 µm filter paper):												
pH	Meter	pH units	0.01	8.0	7.3		7.3	7.0	6.8	6.7	6.8	7.4
EC	Meter	mV	1.0	133	117		132	361	172	60	120	145
Acidity (to pH 8.3)	Titration	mg CaCO ₃ /L	0.5	2.3	6.4		6.2	11.5	5.9	4.8	6.1	5.2
Total Alkalinity (to pH 4.5)	Titration	mg CaCO ₃ /L	0.5	23.5	21.5		36.7	68.3	9.7	12.4	9.3	25.5
Sulphate	Colourimetry	mg/L	0.5	39.5	16.3		18.4	55.2	52.0	10.9	26.2	50.3
Phosphorus Dissolved	IC	mg/L	0.0050	0.0075	0.0198		0.0085	0.0184	0.0103	0.0171	0.0083	0.0082
Dissolved Metals Analysis by ICP-MS:												
Dissolved Hardness (CaCO ₃)	ICP-MS	mg/L	0.1	42.6	29.1		50.0	56.9	53.3	20.8	23.2	57.0
Aluminum Dissolved	ICP-MS	mg/L	0.001	0.204	0.175	0.18	0.0612	0.0234	0.359	0.0402	0.0096	0.279
Antimony Dissolved	ICP-MS	mg/L	0.00005	0.0122	0.00417	0.00413	0.00122	0.00293	0.000421	0.00357	0.00405	0.00402
Arsenic Dissolved	ICP-MS	mg/L	0.00005	0.00443	0.0215	0.022	0.00201	0.00945	0.00405	0.00198	0.00591	0.014
Barium Dissolved	ICP-MS	mg/L	0.0001	0.675	0.102	0.101	0.025	0.0241	0.0199	0.251	0.0676	0.00317
Beryllium Dissolved	ICP-MS	mg/L	0.00001	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000015	0.000011	0.000021	<0.000010
Bismuth Dissolved	ICP-MS	mg/L	0.00001	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Boron Dissolved	ICP-MS	mg/L	0.005	<0.0050	<0.0050	0.0037	<0.0050	<0.0050	0.0136	0.0088	<0.0050	0.0066
Cadmium Dissolved	ICP-MS	mg/L	0.000002	0.0000149	0.0000344	0.000032	0.0000118	0.000129	0.0000051	0.0000061	0.0000279	0.0000036
Calcium Dissolved	ICP-MS	mg/L	0.04	15.9	10.3	10.3	16.4	18.2	17.1	7.5	7.3	17.6
Chromium Dissolved	ICP-MS	mg/L	0.0001	<0.00010	0.0001	<0.00010	<0.00010	<0.00010	0.0002	0.0001	<0.00010	<0.00010
Cobalt Dissolved	ICP-MS	mg/L	0.000005	0.0000309	0.00171	0.00168	0.0000602	0.00173	0.00263	0.000188	0.0503	0.000212
Copper Dissolved	ICP-MS	mg/L	0.0001	0.00039	0.00297	0.00297	0.00039	0.0049	0.0164	0.00204	0.0233	0.00198
Iron Dissolved	ICP-MS	mg/L	0.002	0.0029	0.0229	0.0259	0.0065	0.0042	0.0166	0.0348	<0.0020	<0.0020
Lead Dissolved	ICP-MS	mg/L	0.00005	0.00108	<0.000050	<0.000050	<0.000050	0.00134	<0.000050	0.000234	<0.000050	<0.000050
Lithium Dissolved	ICP-MS	mg/L	0.00005	0.0043	0.0010	0.0009	0.0084	0.0162	0.0027	0.0011	0.0017	0.0032
Magnesium Dissolved	ICP-MS	mg/L	0.005	0.7	0.8	0.8	2.2	2.7	2.6	0.5	1.2	3.1
Manganese Dissolved	ICP-MS	mg/L	0.00005	0.00245	0.00449	0.00452	0.0213	0.00117	0.00374	0.00279	0.0277	0.00667
Mercury Dissolved	CVA	mg/L	0.000005	<0.000005	0.0000173		0.0000065	<0.000005	<0.000005	0.0000066	0.00107	<0.000005
Molybdenum Dissolved	ICP-MS	mg/L	0.00001	0.0873	0.122	0.121	0.0128	0.0197	0.0132	0.00504	0.00904	0.00765
Nickel Dissolved	ICP-MS	mg/L	0.00004	0.00146	0.00435	0.00436	0.00137	0.0144	0.00477	0.00016	0.0506	0.00484
Phosphorus Dissolved	ICP-MS	mg/L	0.01	<0.010	0.014	0.014	<0.010	0.013	<0.010	<0.010	<0.010	<0.010
Potassium Dissolved	ICP-MS	mg/L	0.01	4.8	2.84	2.89	4.13	5.98	2.8	2.56	3.9	7.15
Selenium Dissolved	ICP-MS	mg/L	0.0001	0.00081	0.0032	0.00299	0.00188	0.00371	0.0007	0.00144	0.00127	0.00081
Silicon Dissolved	ICP-MS	mg/L	0.1	0.71	0.64	0.64	1.41	1.89	2.11	0.92	0.37	0.9
Silver Dissolved	ICP-MS	mg/L	0.00001	<0.000010	<0.000010	<0.000010	<0.000010	0.000018	<0.000010	0.000057	0.000048	0.000013
Sodium Dissolved	ICP-MS	mg/L	0.02	0.962	0.38	0.391	3.97	25.4	2.36	0.532	0.484	1.43
Strontium Dissolved	ICP-MS	mg/L	0.0001	12.5	0.251	0.253	0.875	0.571	0.352	0.333	0.326	0.0657
Sulphur Dissolved	ICP-MS	mg/L	1	11.9	6.0	6.2	7.1	17.1	17.3	4.8	8.0	17.0
Tellurium Dissolved	ICP-MS	mg/L	0.00005	0.000498	0.000429	0.000356	0.000201	0.00221	<0.000050	0.000324	0.000226	<0.000050
Thallium Dissolved	ICP-MS	mg/L	0.000004	0.0000567	0.000272	0.000268	0.00002	0.0000345	0.0000587	0.000026	0.000418	0.0000661
Thorium Dissolved	ICP-MS	mg/L	0.00001	<0.000010	<0.000010	0.000011	<0.000010	<0.000010	0.00007	0.000108	<0.000010	<0.000010
Tin Dissolved	ICP-MS	mg/L	0.00005	0.000059	0.000079	0.000081	<0.000050	0.000091	0.000082	<0.000050	<0.000050	<0.000050
Titanium Dissolved	ICP-MS	mg/L	0.0002	<0.00020	0.00063	<0.00020	<0.00020	<0.00020	0.00112	0.00054	<0.00020	<0.00020
Tungsten Dissolved	ICP-MS	mg/L	0.0002	0.00139	0.00253	0.00248	0.00094	0.023	0.00151	0.00596	0.00073	0.00109
Uranium Dissolved	ICP-MS	mg/L	0.000001	0.00187	0.00288	0.00283	0.00109	0.0019	0.0000554	0.000091	0.000912	0.000374
Vanadium Dissolved	ICP-MS	mg/L	0.0002	0.00064	0.00207	0.00198	0.00054	0.00046	0.00091	0.00036	0.00088	0.00098
Zinc Dissolved	ICP-MS	mg/L	0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.001	0.002	0.007	<0.0010
Zirconium Dissolved	ICP-MS	mg/L	0.00002	0.0001	0.0004	0.0004	0.0002	0.0011	0.0057	0.0005	0.0000	0.0000
Ion Balance:												
Major Anions	Calc.	meq/L		1.29	0.77	0.77	1.12	2.52	1.28	0.48	0.73	1.56
Major Cations	Calc.	meq/L		1.33	0.70	0.70	1.31	2.41	1.29	0.52	0.60	1.41
Difference	Calc.	meq/L		0.04	-0.07	-0.07	0.19	-0.11	0.01	0.04	-0.13	-0.15
Balance (%)	Calc.	%		1.5%	-4.9%	-4.6%	7.8%	-2.2%	0.4%	4.4%	-9.8%	-4.9%
Shake Flask Extract ID:				21G3912-01	21G3912-02	21G3912-02	21G3912-03	21G3912-04	21G3912-05	21H0858-01	21G3912-06	21G3912-07

NOTES:

Job No: 21G3912; 21G3906; 21H0858; 21H1142; 21H1362; 21H1755

Date of Analysis (24 h): July 27/28, 2021; July 28/29, 2021; August 5/6, 2021; August 9/10, 2021; August 11/12, 2021; August 12/13, 2021

pH of DI water used (pH Units): 5.72; 5.64; 5.46; 5.08; 5.39; 5.41

EC of DI water used (µS/cm): 0.72; 0.64; 0.39; 0.77; 0.70; 0.82

ABBREVIATIONS:

R / Rep = Replicate (which involves the analysis of the same Shake Flask Extract aliquot).

D / Dup = Duplicate (which involves the analysis of a separate SF extract, produced by processing a secopnd split of the original client sample received).

Calc. = Calculation

EC = Electrical Conductivity

IC = Ion Chromatography

N/A = Not Applicable.

mg/L = Milligrams per Litre

REFERENCE:

Prediction Manual for Drainage Chemistry from Sulphidic Geologic Material, MEND Report 1.20.1; Version 0 - Dec. 2009. Section 11.5; P 11 (8-9).

Extraction Method used: Using gyratory shaker for 24 h (± 2 h; gentle agitation).

Liquid: Solid ratio used: 3: 1; L: S; 750 mL DI H₂O: 250 g of homogenized as received material.

CERTIFICATE OF ANALYSIS • MEND-SHAKE FLASK EXTRACTION RESULTS

old Corp.

33	35	41	42	46	50	52	53	54	55	59	60	60D	63	65
Sample ID								Sample ID						
W-033	W-035	W-041	W-042	W-046	W-050	W-052	W-053	W-054	W-055	W-059	W-060	W-060 (Dup)	W-063	W-065
250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
750	750	750	750	750	750	750	750	750	750	750	750	750	750	750
8.0	6.8	8.3	7.9	7.3	8.1	7.6	7.3	8.0	7.1	7.9	7.6	7.5	8.0	7.4
49	80	86	65	74	86	160	155	134	138	99	150	137	80	156
2.1	6.2	1.1	3.5	6.2	2.2	5.3	6.0	3.1	6.4	3.7	5.1	4.4	3.8	5.9
30.7	7.4	32.1	36.4	34.9	43.6	38.6	21.7	40.7	25.1	36.1	33.7	32.7	36.6	28.1
<0.5	14.4	1.0	<0.5	1.0	<0.5	41.0	45.3	27.4	30.1	10.9	29.7	31.6	6.2	40.6
0.0116	0.0082	0.0087	0.0085	0.0171	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0111	<0.0050	<0.0050
19.8	15.4	16.0	26.1	19.8	28.9	60.8	49.8	48.3	57.0	40.3	52.2	52.7	32.7	60.4
0.556	0.0357	0.32	0.417	0.221	0.439	0.177	0.188	0.268	0.0964	0.435	0.24	0.199	0.511	0.136
0.00167	0.00764	0.00239	0.0145	0.000369	0.00634	0.0131	0.00269	0.0128	0.00222	0.026	0.00401	0.00397	0.0201	0.00396
0.00154	0.00332	0.00819	0.000339	0.000801	0.00777	0.00214	0.00279	0.00198	0.00438	0.0144	0.00505	0.00505	0.00396	0.00291
0.00731	0.153	0.02	0.00114	0.00115	0.0042	0.00775	0.12	0.0245	0.244	0.00202	0.00226	0.00254	0.00113	0.00938
<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000012	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
0.009	<0.0050	<0.0050	0.0076	<0.0050	0.0059	0.005	0.0057	<0.0050	0.0077	<0.0050	0.006	0.0062	<0.0050	<0.0050
<0.0000020	0.0000426	0.0000116	<0.0000020	0.0000032	0.0000068	0.0000039	0.0000287	0.0000037	0.000014	<0.0000020	0.0000027	0.0000024	<0.0000020	0.0000068
6.9	4.7	4.4	7.3	6.6	7.7	15.7	13.3	13.7	17.3	13.1	13.8	11.8	14.9	14.9
0.0002	0.0001	<0.00010	<0.00010	0.0001	<0.00010	0.0001	0.0001	<0.00010	0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
0.0000098	0.00456	0.0000399	0.0000864	0.00047	0.00012	0.000178	0.000692	0.0000529	0.00225	0.000892	0.000168	0.000209	0.000211	0.000628
0.00017	0.00529	0.00019	0.0005	0.0444	0.00034	0.00029	0.00402	0.00027	0.0086	0.00027	<0.00010	0.00052	0.00065	0.00084
<0.0020	0.0036	0.0029	<0.0020	0.021	0.0172	0.0042	0.0333	0.0023	0.0242	0.0045	0.0076	0.0028	0.004	0.0049
<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	0.00162	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
0.0002	0.0011	0.0021	0.0009	0.0008	0.0013	0.0045	0.0041	0.0022	0.0033	0.0005	0.0023	0.0026	0.0006	0.0030
0.6	0.9	1.2	1.9	0.8	2.4	5.2	4.0	3.4	3.3	1.5	4.7	4.4	0.8	5.6
0.00211	0.0214	0.00165	0.00129	0.024	0.00826	0.0801	0.214	0.031	0.0109	0.0202	0.0373	0.0402	0.0139	0.0821
<0.000005	0.0000245	<0.000005	<0.000005	0.0000569	<0.000005	<0.000005	0.0000091	<0.000005	0.000185	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
0.000291	0.0102	0.0895	0.000247	0.00208	0.00182	0.00194	0.00602	0.00489	0.0216	0.000363	0.0116	0.0138	0.000275	0.0236
0.000914	0.0148	0.000117	0.00374	0.00422	0.00199	0.0052	0.00972	0.00223	0.00677	0.0179	0.0016	0.00167	0.00948	0.00883
0.011	<0.010	<0.010	<0.010	0.014	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
2.93	2.65	7.44	3.09	3.05	8.89	8.78	10.2	8.86	3.87	3.33	10.2	10.7	2.98	6.08
0.00022	0.00031	0.0002	<0.00010	0.00033	0.00019	0.0004	0.00101	0.00093	0.00155	0.00012	0.00052	0.00047	0.00019	0.00035
1.25	0.51	1.12	0.68	1.36	0.96	0.76	1.2	0.87	1.49	0.74	0.82	0.81	0.73	0.64
<0.000010	0.000128	<0.000010	<0.000010	<0.000010	<0.000010	0.000016	0.000042	0.000013	0.000023	<0.000010	<0.000010	<0.000010	<0.000010	0.000016
1.9	0.327	1.33	1.24	3.33	1.42	1.48	1.71	1.24	1.18	1.1	1.51	1.51	1.07	1.6
0.0495	0.228	0.0502	0.0333	0.146	0.0658	0.128	1.51	0.191	0.387	0.136	0.107	0.122	0.0777	0.0742
<1.00	4.6	<1.00	<1.00	1.1	<1.00	17.1	15.8	11.8	11.3	5.0	15.4	13.9	2.3	17.3
0.000083	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
0.0000104	0.000075	0.0000555	0.0000296	0.0000256	0.0000602	0.0000507	0.000117	0.0000458	0.00005	0.0000319	0.0000583	0.0000615	0.0000476	0.0000692
<0.000010	0.000028	<0.000010	<0.000010	<0.000010	0.000026	<0.000010	0.000021	<0.000010	0.000082	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
<0.000050	0.000062	<0.000050	<0.000050	0.000051	<0.000050	<0.000050	<0.000050	<0.000050	0.000061	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
<0.00020	<0.00020	0.00024	<0.00020	0.00024	<0.00020	<0.00020	0.0009	<0.00020	0.00318	<0.00020	0.00028	<0.00020	<0.00020	<0.00020
0.00045	0.0023	<0.0002	0.00038	0.00104	0.001	0.0017	0.00086	0.00182	0.0195	0.00111	0.00062	0.00055	0.00117	0.0005
0.0000033	0.00078	0.0000238	0.0000035	0.0000327	0.000032	0.000103	0.000596	0.000655	0.000334	0.0000169	0.0000524	0.00004	0.0000088	0.0000541
0.00118	0.00161	0.00266	0.00047	0.00045	0.00069	<0.00020	<0.00020	0.00023	0.00056	0.00065	0.00029	0.00042	0.00077	<0.00020
<0.0010	0.008	<0.0010	<0.0010	0.001	0.001	<0.0010	0.001	<0.0010	0.011	<0.0010	<0.0010	<0.0010	<0.0010	0.001
<0.000020	0.0007	0.0002	<0.000020	0.0003	0.0000	<0.000020	0.0007	0.0000	0.0047	0.0000	0.0004	0.0002	<0.000020	<0.000020
0.61	0.45	0.66	0.73	0.72	0.87	1.63	1.38	1.39	1.13	0.95	1.29	1.31	0.86	1.41
0.62	0.40	0.60	0.70	0.65	0.92	1.53	1.40	1.28	1.31	0.99	1.40	1.42	0.84	1.45
0.00	-0.05	-0.06	-0.03	-0.07	0.04	-0.10	0.02	-0.10	0.18	0.04	0.11	0.11	-0.02	0.04
0.1%	-5.3%	-4.6%	-1.8%	-5.2%	2.5%	-3.1%	0.7%	-3.9%	7.4%	2.1%	4.0%	3.9%	-1.3%	1.6%
21H0858-02	21G3912-08	21G3912-09	21G3912-10	21G3912-11	21G3906-01	21G3906-02	21G3906-03	21G3906-04	21G3906-05	21G3906-06	21G3906-07	21H0858-03	21G3906-08	21G3906-09

CERTIFICATE OF ANALYSIS • MEND-SHAKE FLA

PAGE: 8b of 9
GLOBAL PROJECT NO: 1956 (B8)
CLIENT: First Mining Gold Corp.
PROJECT NAME: Springpole
PROJECT NO: ONS2104
REPORT VERSION: 3

67	70	70 R	72	73	77	79	79 R	81	82	82D	86	88	88 R	91
Sample ID														
W-067	W-070	W-070 (Rep)	W-072	W-073	W-077	W-079	W-079 (Rep)	W-081	W-082	W-082 (D)	W-086	W-088	W-088 (Rep)	W-091
250	250	N/A	250	250	250	250	N/A	250	250	250	250	250	N/A	250
750	750	N/A	750	750	750	750	N/A	750	750	750	750	750	N/A	750
8.0	8.4		7.0	7.7	7.9	7.8		7.9	7.8	7.7	7.7	6.8		7.3
98	89		147	150	94	102		76	75	75	110	164		85
3.7	0.0		5.4	3.4	3.3	3.7		3.3	3.6	3.8	3.1	15.5		14.7
47.2	36.3		11.2	37.5	48.0	47.6		40.5	36.7	36.1	33.4	39.3		43.5
4.9	12.2		55.5	31.7	4.9	8.4		4.3	4.9	5.4	20.9	30.9		7.3
<0.0050	<0.0050		0.0126	0.0096	0.0102	0.0107		0.0104	0.0099	0.0102	0.0097	0.0113		0.0135
43.6	24.9		53.0	57.2	37.2	38.5		26.2	27.0	28.4	38.3	45.7		29.3
0.274	0.482	0.497	0.0334	0.166	0.317	0.366	0.365	0.593	0.309	0.302	0.301	0.0835	0.0835	0.319
0.0326	0.0191	0.0193	0.00185	0.00095	0.00987	0.00271	0.00265	0.0144	0.000703	0.000665	0.00126	0.00119	0.00117	0.00196
0.000925	0.0233	0.0242	0.00346	0.00529	0.0129	0.018	0.0177	0.0053	0.00229	0.00204	0.00434	0.00458	0.00459	0.0502
0.00752	0.0215	0.0216	0.13	0.0109	0.00173	0.00322	0.00327	0.00119	0.00908	0.00976	0.14	0.0142	0.0144	0.00331
<0.000010	<0.000010	<0.000010	0.00025	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000044	0.000051	<0.000010
<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000013	0.000011	<0.000010
0.0069	<0.0050	0.0046	<0.0050	<0.0050	0.0072	<0.0050	0.0047	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0029	<0.0050
<0.0000020	<0.0000020	<0.0000020	0.000636	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	0.0000066	0.0000384	0.0000352	<0.0000020
12.6	8.5	8.3	16.6	14.6	10.2	11.0	7.3	8.5	9.1	12.8	15.7	15.1	15.1	9.7
<0.00010	<0.00010	0.0001	<0.00010	0.0015	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.0001	0.0006	0.0006	0.0002
0.000341	0.000183	0.000196	0.0643	0.00014	0.000284	0.000579	0.000565	0.000182	0.000751	0.000965	0.000207	0.00237	0.00234	0.0000605
0.00221	0.00075	0.0008	0.00217	0.00061	0.00056	0.00087	0.00085	0.00069	0.00645	0.0061	0.00393	0.0388	0.0381	0.00097
0.0064	0.0039	0.0044	<0.0020	0.0117	<0.0020	0.0026	0.0033	0.0127	0.0026	0.0054	0.0093	0.196	0.195	0.0024
<0.000050	<0.000050	<0.000050	0.0116	<0.000050	0.000242	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	0.000075	0.00227	0.00222	<0.000050
0.0020	0.0038	0.0038	0.0096	0.0027	0.0011	0.0024	0.0024	0.0017	0.0010	0.0010	0.0048	0.0027	0.0028	0.0008
2.9	0.9	0.9	2.8	5.0	2.9	2.7	2.7	2.0	1.4	1.4	1.6	1.6	1.6	1.2
0.0109	0.0127	0.0129	0.872	0.0374	0.0123	0.0372	0.0366	0.0107	0.0121	0.0168	0.0212	0.0191	0.0191	0.0121
<0.000005	<0.000005		<0.000005	<0.000005	<0.000005	<0.000005		<0.000005	<0.000005	<0.000005	<0.000005	0.0000146	0.0000141	<0.000005
0.00682	0.00373	0.00379	0.00131	0.00111	0.0029	0.00427	0.00413	0.000385	0.00169	0.00175	0.0252	0.00404	0.00398	0.0023
0.0131	0.00532	0.00544	0.123	0.00346	0.00439	0.00753	0.00744	0.00183	0.0043	0.00505	0.00401	0.0177	0.018	0.00565
<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
2.53	9.12	9.37	9.39	8.86	8.94	10.7	10.6	8.78	6.5	5.48	10.3	6.05	6.13	5.4
0.00031	0.00061	0.00057	0.00169	0.00028	0.00013	0.00013	0.0001	<0.00010	<0.00010	<0.00010	0.00577	0.00158	0.00146	0.00024
0.82	1.39	1.44	0.73	0.66	0.8	1	0.86	1.67	1.2	1.04	1.56	1.18	1.3	0.69
<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000043	0.000039	<0.000010
1.87	2.29	2.35	1.25	1.49	1.25	1.4	1.38	2.2	2.14	2.2	1.52	11.8	11.9	1.74
0.0212	0.148	0.151	3.11	0.132	0.0601	0.041	0.0403	0.0507	0.0848	0.0953	0.429	0.474	0.476	0.0673
1.0	6.0	5.1	18.3	14.8	2.0	4.7	4.4	1.6	1.8	2.1	9.4	15.3	17.4	2.5
<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	0.000052	<0.000050	0.000055	<0.000050	<0.000050	<0.000050	0.000086	0.000453	0.000448	0.000054
0.0000409	0.0000559	0.0000553	0.000547	0.0000553	0.000065	0.0000574	0.0000568	0.0000324	0.0000386	0.0000324	0.0000588	0.0000527	0.0000527	0.0000309
<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000017	0.000016	<0.000010
0.000057	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	0.000094	0.000096	0.000235
<0.00020	<0.00020	0.00023	<0.00020	<0.00020	0.00024	0.00024	<0.00020	0.00054	<0.00020	0.00043	0.00026	0.00026	0.00027	<0.00020
0.00383	0.00058	0.00058	0.00039	0.00032	0.00035	0.001	0.00098	0.00149	0.00045	0.00038	0.00182	0.0158	0.0159	0.00037
0.0000436	0.000618	0.000612	0.00134	0.0000441	0.0000419	0.0000205	0.0000196	0.000162	0.000289	0.000335	0.0003	0.00214	0.00216	0.0000143
0.00022	0.00255	0.00264	<0.00020	<0.00020	0.00028	0.00027	0.00025	0.00198	0.00122	0.00124	0.00198	0.00053	0.00058	0.00079
<0.0010	<0.0010	<0.0010	0.052	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.003	0.003	<0.0010
0.0000	0.0000	0.0000	0.0001	<0.000020	<0.000020	<0.000020	<0.000020	0.0001	0.0000	0.0000	0.0001	0.0045	0.0043	0.0001
1.05	0.98	0.98	1.38	1.41	1.06	1.13	1.13	0.90	0.84	0.83	1.10	1.43	1.43	1.02
1.05	0.89	0.89	1.46	1.46	1.07	1.15	1.14	0.91	0.84	0.84	1.14	1.61	1.59	0.84
0.00	-0.09	-0.09	0.08	0.05	0.00	0.02	0.02	0.01	0.00	0.01	0.04	0.18	0.16	-0.18
0.1%	-4.9%	-4.8%	2.8%	1.6%	0.2%	1.0%	0.7%	0.7%	-0.1%	0.5%	1.8%	5.9%	5.3%	-9.9%
21G3906-10	21G3906-11	21G3906-11	21H0858-04	21H0858-05	21H0858-06	21H0858-07	21H0858-07	21H0858-08	21H0858-09	21H0858-10	21H0858-11	21H1142-01	21H1142-01	21H1142-02

ASK EXTRACTION RESULTS

CERTIFICATE OF

PAGE: 8c of 9
GLOBAL PROJECT NO: 1956 (B8)
CLIENT: First Mining Gold Corp.
PROJECT NAME: Springpole
PROJECT NO: ONS2104
REPORT VERSION: 3

102	105	112	126	127	137	139	139D	150	151	171	173	176	179	196
Sample ID														
W-102	W-105	W-112	W-126	W-127	W-137	W-139	W-139 (D)	W-150	W-151	W-171	W-173	W-176	W-179	W-196
250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
750	750	750	750	750	750	750	750	750	750	750	750	750	750	750
7.4	7.1	7.3	7.2	6.8	7.2	7.2	7.2	7.2	7.2	7.0	7.0	7.2	7.1	7.3
90	118	77	138	151	104	165	162	95	83	147	154	55	55	105
14.0	15.6	14.6	16.9	21.3	15.1	16.5	15.3	13.6	14.6	16.8	18.5	12.9	12.9	14.5
41.9	24.2	42.2	36.3	11.4	38.8	40.9	41.4	23.5	44.3	18.0	26.4	22.9	21.3	44.3
11.7	35.1	5.5	45.0	64.1	17.7	47.6	43.7	22.5	6.6	45.7	34.7	6.8	10.1	13.8
0.0066	0.0093	0.0073	0.0063	0.0060	0.0053	<0.0050	<0.0050	0.0099	0.0115	<0.0050	0.0641	0.0273	0.0072	0.0074
28.4	35.0	29.3	58.0	48.8	33.1	65.4	64.6	26.0	33.8	45.8	55.6	15.6	17.3	39.6
0.35	0.0631	0.286	0.114	0.0881	0.258	0.102	0.107	0.0848	0.102	0.0235	0.0755	0.0622	0.0617	0.307
0.0105	0.00103	0.000771	0.00106	0.00232	0.00225	0.00414	0.00437	0.000593	0.000796	0.000452	0.00194	0.000954	0.00102	0.00269
0.0193	0.00246	0.000788	0.000895	0.00583	0.00335	0.00112	0.00127	0.000658	0.00057	0.000271	0.00254	0.00367	0.00091	0.0109
0.18	0.00903	0.00621	0.0205	0.101	0.00642	0.0338	0.0338	0.0316	0.24	0.0182	0.0582	0.225	0.00648	0.0459
<0.000010	<0.000010	<0.000010	<0.000010	0.000699	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000071	0.00001	<0.000010	<0.000010
<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000121	0.000048	<0.000010	<0.000010
<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0057	0.0061	<0.0050	<0.0050
<0.0000020	0.0000251	<0.0000020	0.0000076	0.0163	0.000003	0.0000035	0.0000027	0.0000316	0.0000032	0.000275	0.000605	0.000153	0.0000328	<0.0000020
9.5	12.5	7.9	15.8	14.5	9.1	18.0	18.0	7.4	10.0	10.5	16.1	3.9	4.2	12.1
<0.00010	0.0003	0.0002	<0.00010	0.0002	<0.00010	<0.00010	<0.00010	<0.00010	0.0001	0.0001	0.0008	0.0002	0.0001	<0.00010
0.000196	0.00469	0.000334	0.00101	0.236	0.0000392	0.000132	0.000179	0.000539	0.000312	0.00275	0.0109	0.00149	0.000935	0.0000679
0.00133	0.024	0.00165	0.00394	0.0884	0.00045	0.00018	0.00022	0.000695	0.0125	0.00458	0.0654	0.026	0.0234	0.00053
0.0033	0.0492	0.0124	0.0042	0.0625	0.0027	<0.0020	<0.0020	0.0501	0.0493	0.0131	0.179	0.0255	0.0158	0.0034
<0.000050	0.000222	<0.000050	<0.000050	0.000357	<0.000050	0.000728	0.000798	0.000648	0.000052	0.00013	0.0113	0.00174	0.000061	<0.000050
0.0034	0.0043	0.0007	0.0011	0.0080	0.0030	0.0021	0.0020	0.0050	0.0006	0.0108	0.0115	0.0008	0.0021	0.0021
1.1	0.9	2.3	4.5	3.1	2.5	4.9	4.8	1.8	2.1	4.8	3.7	1.4	1.7	2.3
0.00762	0.109	0.0201	0.167	0.25	0.0176	0.104	0.131	0.112	0.0187	1.85	0.27	0.015	0.0504	0.0255
<0.000005	<0.000005	<0.000005	<0.000005	0.0000214	<0.000005	<0.000005	<0.000005	0.0000105	0.0000155	<0.000005	0.0000122	<0.000005	<0.000005	<0.000005
0.000176	0.00325	0.000265	0.000504	0.00171	0.00254	0.00836	0.00822	0.00104	0.000759	0.00184	0.0133	0.00397	0.000454	0.00299
0.00105	0.0152	0.00154	0.0122	0.418	0.00186	0.0015	0.00224	0.0031	0.0034	0.0131	0.0226	0.00648	0.00511	0.00188
<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.014	0.011	<0.010	0.087	0.035	<0.010	<0.010
8.12	7.05	4.61	5.06	9.46	8.64	8.2	7.46	7.83	4.65	11.3	10.4	5.27	3.16	5.9
<0.00010	0.00029	<0.00010	0.00012	0.00062	0.00012	0.00418	0.00452	0.00577	0.00102	0.0036	0.00447	0.00431	0.00066	0.00017
1.09	0.88	0.95	0.67	0.65	0.86	0.57	0.52	0.91	1.58	1.13	0.76	0.72	0.91	1.01
<0.000010	0.000035	<0.000010	<0.000010	0.000119	<0.000010	<0.000010	<0.000010	0.000015	0.000026	0.000023	0.000046	0.000098	0.000012	<0.000010
0.807	4.1	1.67	1.3	0.359	1.79	1.41	1.38	2.43	1.85	2.32	1.75	0.898	2.39	2.58
5.12	0.324	0.0838	0.221	1.22	0.0617	0.315	0.296	0.154	0.196	0.159	0.379	0.165	0.0459	0.362
5.1	14.5	1.5	14.6	23.2	10.8	26.3	26.2	11.7	2.9	22.6	18.5	3.6	4.6	9.3
0.00007	<0.000050	<0.000050	<0.000050	0.000792	<0.000050	0.000065	<0.000050	<0.000050	<0.000050	0.000063	0.000854	0.000336	<0.000050	<0.000050
0.0000442	0.0000456	0.00002	0.0000552	0.000288	0.0000493	0.0000381	0.0000388	0.0000439	0.0000214	0.000107	0.0001	0.0000277	0.0000192	0.0000379
<0.000010	0.000023	<0.000010	<0.000010	0.00002	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000054	0.000037	0.000017	<0.000010
0.000062	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	0.000221	<0.000050	0.000056	<0.000050	<0.000050
<0.00020	0.00133	0.00065	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00157	0.00049	0.00036	0.00189	<0.00020	<0.00020	<0.00020
<0.0002	0.00189	0.0005	0.00029	0.0008	0.00103	0.00031	0.0003	0.00032	0.00346	<0.0002	0.00121	0.0953	0.00217	0.0003
0.000527	0.000278	0.000124	0.000312	0.0129	0.0000476	0.000159	0.000162	0.000079	0.000132	0.0000525	0.0019	0.00072	0.0000323	0.000727
0.00034	0.00048	0.00023	<0.00020	<0.00020	0.00051	<0.00020	<0.00020	0.001	0.00035	<0.00020	0.00193	<0.00020	0.00029	0.00063
<0.0010	0.002	<0.0010	<0.0010	1.900	<0.0010	0.001	0.002	<0.0010	<0.0010	0.004	0.115	0.005	<0.0010	<0.0010
0.0001	0.0016	0.0003	0.0001	0.0023	0.0001	<0.000020	<0.000020	0.0004	0.0012	0.0004	0.0094	0.0055	0.0006	0.0001
1.08	1.22	0.96	1.66	1.56	1.15	1.81	1.74	0.94	1.02	1.31	1.25	0.60	0.64	1.17
0.97	1.08	0.81	1.37	1.38	0.99	1.60	1.56	0.84	0.90	1.38	1.48	0.50	0.54	1.10
-0.11	-0.14	-0.15	-0.29	-0.18	-0.16	-0.21	-0.17	-0.10	-0.13	0.07	0.23	-0.10	-0.10	-0.07
-5.5%	-6.0%	-8.3%	-9.7%	-6.3%	-7.3%	-6.2%	-5.3%	-5.4%	-6.7%	2.6%	8.5%	-8.7%	-8.1%	-3.3%
21H1142-03	21H1142-04	21H1142-05	21H1142-06	21H1142-07	21H1142-08	21H1142-09	21H1142-10	21H1142-11	21H1142-12	21H1142-13	21H1142-14	21H1142-15	21H1142-16	21H1142-17

ANALYSIS - MEND-SHAKE FLASK EXTRACTION RESULTS

PAGE: 8d of 9
GLOBAL PROJECT NO: 1956 (B8)
CLIENT: First Mining Gold Corp.
PROJECT NAME: Springpole
PROJECT NO: ONS2104
REPORT VERSION: 3

199	200	202	202D	202D R	206	207	208	211	215	217	220	221	222	233
Sample ID														
W-199	W-200	W-202	W-202 (D)	W-202 (D - Rep)	W-206	W-207	W-208	W-211	W-215	W-217	W-220	W-221	W-222	W-233
250	250	250	250	N/A	250	250	250	250	250	250	250	250	250	250
750	750	750	750	N/A	750	750	750	750	750	750	750	750	750	750
7.3	7.4	7.4	7.4		6.9	7.4	7.6	7.4	7.5	7.5	7.2	7.5	7.6	7.6
88	87	74	71		83	102	99	134	124	124	177	100	61	99
14.7	14.5	14.0	13.9		11.8	12.0	10.6	11.6	12.5	11.3	12.5	11.8	8.7	11.0
43.6	44.8	46.1	46.9		44.8	44.3	46.5	46.3	58.5	43.4	40.1	43.1	38.9	40.7
9.2	8.5	<0.5	<0.5		4.4	12.5	9.3	27.9	8.2	20.8	57.7	10.3	<0.5	11.7
0.0082	0.0088	0.0166	0.0172		0.008	0.006	0.010	0.008	0.010	0.010	0.005	0.011	0.005	0.0145
35.3	36.2	28.4	28.6		30.7	41.8	33.4	44.3	46.0	42.2	71.9	31.3	24.1	32.9
0.122	0.467	0.44	0.446	0.436	0.464	0.308	0.538	0.274	0.351	0.396	0.139	0.398	0.591	0.504
0.000662	0.0177	0.021	0.0237	0.0241	0.0192	0.00326	0.0107	0.00106	0.0104	0.0163	0.00191	0.0492	0.000933	0.014
0.00128	0.00743	0.00298	0.00326	0.00318	0.0167	0.00411	0.0252	0.00349	0.00499	0.0151	0.00133	0.0271	0.00259	0.0258
0.0921	0.00325	0.00275	0.0026	0.00273	0.00348	0.00305	0.00324	0.00794	0.0077	0.0115	0.00246	0.145	0.0232	0.195
<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
<0.0050	<0.0050	<0.0050	<0.0050	0.0041	0.0075	0.0062	0.0077	0.0053	<0.0050	<0.0050	0.0082	0.0055	0.0056	0.0053
0.0000094	0.0000024	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	0.0000039	<0.0000020	0.000006	0.0000029	0.0000055
11.9	12.4	9.1	9.0	9.1	9.9	10.2	11.1	14.5	11.0	13.4	17.1	10.5	8.4	12.1
0.0001	0.0002	0.0001	0.0001	0.0001	<0.00010	<0.00010	0.0001	<0.00010	<0.00010	0.0002	<0.00010	<0.00010	0.0002	0.0001
0.000115	0.0000389	0.0000505	0.0000508	0.0000601	0.000195	0.0000559	0.000706	0.000036	0.0000992	0.000222	0.000153	0.000206	0.0000296	0.000103
0.007	0.0016	0.0018	0.0019	0.00191	0.00044	0.00026	0.00205	0.00019	0.00139	0.00222	0.00053	0.00131	0.00031	0.00486
0.0192	0.027	0.009	0.0131	0.0129	0.0062	0.0026	0.0126	<0.0020	0.005	0.0061	<0.0020	0.0024	0.0025	0.008
0.00011	0.000055	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	0.000808	<0.000050	0.000159
0.0007	0.0005	0.0002	0.0003	0.0002	0.0021	0.0032	0.0037	0.0060	0.0035	0.0021	0.0036	0.0028	0.0003	0.0024
1.3	1.3	1.4	1.5	1.5	1.5	4.0	1.4	1.9	4.5	2.1	7.1	1.2	0.8	0.7
0.0372	0.0163	0.00787	0.00742	0.0075	0.0257	0.0172	0.029	0.0388	0.0496	0.0519	0.0539	0.0573	0.00402	0.0169
0.0000084	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
0.000621	0.00321	0.00666	0.00846	0.0086	0.00238	0.00245	0.00269	0.00572	0.00405	0.0047	0.0029	0.0214	0.000202	0.0123
0.00313	0.00462	0.00477	0.00557	0.00566	0.00292	0.000539	0.0106	0.000311	0.00255	0.00238	0.00113	0.00125	0.000254	0.00101
0.013	0.011	0.019	0.014	0.02	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
4.36	3.27	4.89	4.79	4.66	8.84	6.59	10.8	7.29	8.68	9.97	7.08	9.36	2.38	7.15
0.00103	0.0002	0.00016	0.00018	0.00016	0.0001	0.00024	0.00021	<0.00010	0.00309	0.00021	<0.00010	0.00136	0.00013	0.00068
1.37	1.21	1.19	1.25	1.1	1.28	0.9	1.43	1.11	1.18	1.4	0.77	1.47	1.04	1.77
0.000024	0.000018	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000016	<0.000010	<0.000010	<0.000010	<0.000010	0.00001
1.21	1.7	1.33	1.27	1.25	0.268	0.518	0.338	4.54	3.57	0.832	1.23	1.01	1.21	1.43
0.19	0.0424	0.0328	0.0345	0.0349	0.0544	0.0365	0.0456	0.124	0.164	0.182	0.0374	0.82	0.0506	2.74
5.3	4.3	1.1	<1.00	1.0	1.4	5.2	3.9	6.8	3.7	12.7	18.8	5.3	<1.00	4.3
0.000054	0.000062	0.000061	0.000063	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	0.000069	<0.000050	0.000094
0.0000379	0.0000245	0.0000336	0.0000326	0.0000336	0.0000802	0.0000697	0.000127	0.0000393	0.0000649	0.000056	0.0000719	0.0000928	0.000021	0.0000387
<0.000010	0.000013	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.00002
<0.000050	0.00007	<0.000050	<0.000050	<0.000050	<0.000050	0.000052	0.000057	<0.000050	0.000053	0.000057	<0.000050	0.000057	<0.000050	0.000062
<0.00020	0.00038	0.00061	0.00049	0.00059	<0.00020	<0.00020	0.00024	<0.00020	0.00053	<0.00020	<0.00020	<0.00020	<0.00020	0.00021
0.0017	0.00072	0.0007	0.00068	0.00068	0.00518	0.00078	0.00184	0.00095	0.00163	0.0014	0.00027	0.00098	<0.0002	0.00081
0.0000726	0.000266	0.0000199	0.0000284	0.0000281	0.000259	0.00013	0.00057	0.00013	0.000267	0.00318	0.0006	0.00252	0.0000082	0.00164
0.00067	0.00289	0.00185	0.00201	0.00201	0.0006	0.00049	0.00175	0.00145	0.00098	0.00076	0.00022	0.00088	0.0012	0.00092
0.002	<0.0010	0.002	<0.0010	<0.0010	0.004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.002	<0.0010	<0.0010
0.0005	0.0014	0.0003	0.0005	0.0004	0.0001	<0.000020	0.0006	0.0000	0.0002	0.0001	0.0000	0.0002	0.0000	0.0011
1.06	1.07	0.92	0.94	0.94	0.99	1.15	1.12	1.51	1.34	1.30	2.00	1.08	0.78	1.06
0.89	0.93	0.80	0.80	0.80	0.91	1.06	1.02	1.30	1.34	1.18	1.69	0.98	0.66	1.03
-0.17	-0.14	-0.12	-0.14	-0.14	-0.08	-0.09	-0.10	-0.21	0.00	-0.12	-0.31	-0.10	-0.12	-0.03
-9.0%	-7.0%	-7.0%	-8.0%	-8.2%	-4.3%	-3.9%	-4.8%	-7.3%	0.0%	-4.7%	-8.5%	-4.9%	-8.1%	-1.5%
21H1142-18	21H1142-19	21H1142-20	21H1142-21	21H1142-21	21H1362-01	21H1362-02	21H1362-03	21H1362-04	21H1362-05	21H1362-06	21H1362-07	21H1362-08	21H1362-09	21H1362-10

CERTIFICATE OF ANALYSIS • MEND-SHAKE FLASK EXTRACTION RESULTS

PAGE: 8e of 9
GLOBAL PROJECT NO: 1956 (B8)
CLIENT: First Mining Gold Corp.
PROJECT NAME: Springpole
PROJECT NO: ONS2104
REPORT VERSION: 3

233D	234	237	241	243	245	253	257	261	263	266	266 R	266D	267	272
Sample ID											Sample ID			
W-233 (D)	W-234	W-237	W-241	W-243	W-245	W-253	W-257	W-261	W-263	W-266	W-266 (Rep)	W-266 (D)	W-267	W-272
250	250	250	250	250	250	250	250	250	250	250	N/A	250	250	250
750	750	750	750	750	750	750	750	750	750	750	N/A	750	750	750
7.5	7.6	7.5	7.6	7.5	7.5	7.5	7.3	6.9	7.4	7.3		7.3	7.5	7.3
114	94	85	88	86	74	126	121	62	169	116		121	77	133
11.0	10.7	10.8	10.1	10.3	10.2	11.2	13.8	10.6	11.5	11.5		11.6	10.1	11.2
45.7	49.9	40.7	53.7	48.8	40.6	45.1	60.5	36.0	45.8	44.3		44.8	44.2	40.6
14.7	5.0	10.6	1.0	1.0	5.2	19.5	4.9	<0.5	50.7	17.0		17.0	6.3	26.3
	<0.0050	0.0060	0.0088	0.0067	0.0072	0.0264	0.0480	0.0093	0.0062	0.0081			0.0105	0.0071
35.7	33.4	31.9	30.1	26.9	24.2	46.5	65.1	25.8	63.2	40.6		42.3	31.3	43.4
0.47	0.389	0.408	0.417	0.423	0.364	0.336	0.282	0.458	0.297	0.0303	0.0308	0.0299	0.389	0.226
0.0124	0.000529	0.000888	0.00541	0.00563	0.0119	0.00805	0.0012	0.000461	0.00119	0.00399	0.00397	0.00375	0.00109	0.00883
0.0219	0.00122	0.00121	0.00122	0.00526	0.00591	0.193	0.00363	0.0024	0.000723	0.00459	0.00458	0.00461	0.00462	0.0027
0.237	0.00805	0.00728	0.00519	0.00562	0.00437	0.00846	0.0323	0.00368	0.0262	0.0376	0.037	0.0526	0.00335	0.17
<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.00001	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000012	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
0.0056	0.0065	<0.0050	0.0061	0.0066	0.0058	0.011	0.0238	0.0062	<0.0050	<0.0050	0.0046	<0.0050	<0.0050	<0.0050
0.0000061	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	0.000025	<0.0000020	0.0000025	0.0000227	0.0000225	0.0000257	<0.0000020	0.0000229
13.3	11.0	10.5	7.2	6.6	5.7	14.9	20.0	9.6	22.3	12.5	12.6	13.2	8.1	15.3
0.0001	0.0005	<0.00010	0.0001	0.0002	0.0001	0.0001	0.0020	0.0002	0.0001	0.0001	0.0001	0.0001	<0.00010	0.0001
0.0000717	0.000587	0.000506	0.000183	0.000229	0.000334	0.0000482	0.00294	0.0000514	0.000329	0.000161	0.000163	0.000198	0.000422	0.0000407
0.00377	0.0102	0.00344	0.00072	0.00251	0.00082	0.00193	0.0707	0.00203	0.00362	0.00258	0.00268	0.00314	0.00144	0.00033
0.0064	0.0138	0.003	0.0046	0.0125	0.0103	0.0028	0.471	0.0029	0.0037	0.0072	0.0074	0.0117	0.0034	0.0025
0.00012	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	0.000964	<0.000050	<0.000050	0.000087	0.000085	0.000136	<0.000050	0.00957
0.0027	0.0006	0.0008	0.0028	0.0032	0.0025	0.0058	0.0005	0.0006	0.0009	0.0210	0.0209	0.0224	0.0012	0.0039
0.6	1.5	1.4	3.0	2.5	2.4	2.3	3.7	0.5	1.8	2.3	2.2	2.3	2.7	1.2
0.0413	0.0218	0.0212	0.0121	0.0104	0.0118	0.0217	0.183	0.00578	0.0457	0.0124	0.0124	0.015	0.0211	0.0559
0.000065	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	0.0000061	0.0000072	<0.000005	<0.000005	<0.000005	0.000034	0.000031	<0.000005	0.0000082
0.0108	0.00108	0.0012	0.000199	0.00105	0.00172	0.00303	0.00273	0.000789	0.000342	0.0133	0.0136	0.0133	0.00241	0.0161
0.000924	0.00536	0.00388	0.00112	0.0012	0.00116	0.0012	0.023	0.000471	0.00201	0.0019	0.00191	0.00213	0.00264	0.000415
<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.041	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
9.32	4.47	3.12	9.95	11.3	8.56	7.05	3.34	1.92	7.84	4.94	4.88	5.07	3.79	9.27
0.00065	0.00028	0.00016	<0.00010	<0.00010	<0.00010	0.00025	0.0006	<0.00010	<0.00010	0.00154	0.00145	0.00151	0.00011	0.0164
1.82	1.17	1.09	1.51	1.65	1.22	1.19	0.87	1.09	1.06	1.78	1.75	1.8	1.23	1.1
<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000025	0.000044	<0.000010	<0.000010	0.000037	0.00004	0.000055	<0.000010	0.000063
1.95	3.94	2.42	1.3	1.17	0.529	1.67	1.48	0.972	2.08	2.98	2.95	3.15	1.11	0.563
3.03	0.0586	0.0818	0.0553	0.0758	0.0856	0.0999	0.0341	0.0174	0.186	0.382	0.384	0.4	0.0995	0.985
5.2	<1.00	4.1	<1.00	<1.00	<1.00	10.8	2.2	<1.00	16.1	7.2	6.9	7.3	1.4	14.1
0.000084	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	0.000221	0.000232	0.000231	<0.000050	0.000568
0.0000465	0.0000315	0.0000184	0.0000736	0.000103	0.0000549	0.0000401	0.0000077	0.000009	0.0000459	<0.0000040	<0.0000040	<0.0000040	0.0000322	0.0000472
0.000012	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.00206	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
<0.000050	0.000064	0.000056	<0.000050	0.000053	0.000051	<0.000050	0.000083	0.00006	0.000062	0.000056	0.000056	<0.000050	<0.000050	<0.000050
<0.00020	<0.00020	<0.00020	0.00043	0.00091	0.00049	0.00022	0.0139	<0.00020	0.00033	<0.00020	<0.00020	0.0002	<0.00020	<0.00020
0.00087	0.00186	0.00044	0.00087	0.00101	0.00059	0.00055	0.144	0.00021	0.00042	0.00652	0.0067	0.00674	0.00037	0.0004
0.00142	0.0000313	0.0000437	0.0000637	0.0000779	0.000135	0.000467	0.000699	0.0000099	0.000218	0.00236	0.00241	0.00253	0.000117	0.000683
0.00095	0.0016	0.00124	0.00138	0.00252	0.00143	0.0014	0.00204	0.00112	0.00094	0.0013	0.00127	0.00145	0.00088	<0.00020
<0.0010	<0.0010	<0.0010	0.005	<0.0010	<0.0010	<0.0010	0.006	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.002
0.0007	0.0002	0.0001	0.0000	0.0001	0.0001	0.0001	0.0096	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002	<0.00020
1.22	1.10	1.04	1.09	1.00	0.92	1.31	1.31	0.72	1.97	1.24	1.24	1.25	1.02	1.36
1.17	1.00	0.87	0.96	0.93	0.77	1.23	1.49	0.66	1.59	1.08	1.08	1.13	0.82	1.18
-0.06	-0.10	-0.17	-0.13	-0.07	-0.15	-0.08	0.18	-0.06	-0.38	-0.16	-0.16	-0.12	-0.20	-0.18
-2.3%	-4.9%	-8.7%	-6.5%	-3.6%	-9.0%	-3.1%	6.4%	-4.5%	-10.6%	-6.9%	-6.9%	-5.2%	-10.9%	-7.1%
21H1362-11	21H1362-12	21H1362-13	21H1362-14	21H1362-15	21H1362-16	21H1362-17	21H1362-18	21H1362-19	21H1362-20	21H1362-21	21H1362-21	21H1362-22	21H1362-23	21H1362-24

CERTIFICATE OF ANALYSIS • MEND-SHAKE FLASK EXTRACTION RESULTS

PAGE: 8f of 9
GLOBAL PROJECT NO: 1956 (B8)
CLIENT: First Mining Gold Corp.
PROJECT NAME: Springpole
PROJECT NO: ONS2104
REPORT VERSION: 3

278	280	283	290	299	300	301	306	306D	308	309	312	314	324	325
Sample ID														
W-278	W-280	W-283	W-290	W-299	W-300	W-301	W-306	W-306 (D)	W-308	W-309	W-312	W-314	W-324	W-325
250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
750	750	750	750	750	750	750	750	750	750	750	750	750	750	750
7.4	6.8	7.5	7.5	7.3	7.6	7.5	7.6	7.5	7.5	7.3	7.5	7.4	7.5	7.4
134	118	83	90	133	88	96	69	68	83	122	112	156	81	143
11.5	11.0	10.0	10.5	12.0	10.6	11.1	10.0	9.6	10.8	11.7	10.2	11.3	10.4	11.3
44.2	28.5	39.8	47.1	32.6	40.5	42.5	39.5	38.2	42.0	36.5	37.4	32.8	40.4	34.4
23.8	23.3	6.3	5.7	30.1	7.9	9.3	<0.5	<0.5	5.2	23.0	15.8	47.6	5.8	32.2
0.0064	0.0098	0.0058	0.0059	0.0065	0.0056	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	0.0056	<0.0050	<0.0050
49.7	41.1	29.2	33.5	51.3	31.3	35.3	25.0	24.6	28.9	46.6	37.4	52.1	31.5	47.2
0.273	0.208	0.345	0.438	0.181	0.395	0.278	0.49	0.488	0.438	0.0554	0.268	0.325	0.417	0.188
0.00345	0.00286	0.00212	0.00766	0.0101	0.00267	0.0131	0.0288	0.0291	0.00105	0.000906	0.00195	0.0321	0.00149	0.00235
0.00226	0.000858	0.000879	0.00182	0.00925	0.00151	0.0178	0.00116	0.00122	0.000751	0.00266	0.00402	0.0103	0.0015	0.00155
0.0025	0.00282	0.00275	0.0144	0.00641	0.00675	0.00297	0.00049	0.00048	0.00314	0.0644	0.00263	0.0132	0.00146	0.181
<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
<0.0050	<0.0050	0.0056	<0.0050	<0.0050	<0.0050	0.005	0.0052	0.0055	0.0063	<0.0050	0.0053	<0.0050	<0.0050	<0.0050
0.0000032	0.0000032	<0.0000020	<0.0000020	0.0000049	0.0000023	<0.0000020	<0.0000020	<0.0000020	<0.0000020	0.0000026	<0.0000020	0.0000107	<0.0000020	0.0000035
12.4	9.5	10.0	9.2	13.5	8.6	9.2	6.4	6.4	7.6	13.3	9.6	16.9	8.8	14.7
0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
0.0000341	0.0000203	0.0000116	0.0000322	0.000363	0.0000202	0.000134	0.0000194	0.0000174	0.0000253	0.0000781	0.0000677	0.0000464	0.0000232	0.0000152
0.00024	0.00115	0.00032	0.00018	0.00025	0.00015	0.00016	0.00015	0.00021	0.00017	0.00065	0.00021	0.00026	0.00011	0.00028
<0.0020	0.002	0.0026	<0.0020	0.0025	<0.0020	<0.0020	0.0022	0.0023	0.0023	0.0034	0.0033	<0.0020	<0.0020	<0.0020
0.000088	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	0.000056	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
0.0045	0.0019	0.0006	0.0010	0.0018	0.0013	0.0030	0.0005	0.0005	0.0012	0.0051	0.0022	0.0082	0.0005	0.0024
4.6	4.2	1.0	2.6	4.3	2.4	3.0	2.2	2.1	2.4	3.3	3.3	2.4	2.3	2.5
0.033	0.0286	0.0217	0.0148	0.0757	0.012	0.0175	0.00783	0.00733	0.0164	0.0358	0.0219	0.0288	0.0104	0.0212
<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	0.000028	<0.000005	0.0000053	<0.000005	0.00001	<0.000005	<0.000005
0.00527	0.00528	0.0021	0.000362	0.00202	0.00954	0.00197	0.000562	0.000579	0.000349	0.00455	0.00861	0.0356	0.000372	0.00457
0.000283	0.000875	0.000084	0.000418	0.00294	0.00027	0.000702	0.000149	0.000183	0.000227	0.00152	0.000597	0.00218	0.00007	0.000211
<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
4.86	4.35	3.47	5.57	3.5	5.14	5.76	4.44	4.99	7.41	5.89	7.93	9.29	3.62	7.25
0.00102	0.00034	0.00015	0.0003	0.00106	0.00018	0.00023	<0.00010	<0.00010	<0.00010	0.00028	0.00055	0.00125	0.00032	0.00472
1.03	0.88	0.83	1.13	0.92	1.43	0.85	1.09	1.17	0.97	0.94	0.89	1.49	0.95	1.51
0.000026	<0.000010	<0.000010	<0.000010	0.000018	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000017	0.000015	0.000014	<0.000010	<0.000010
2.89	3.64	1.69	1.82	2.08	1.73	1.43	1.74	1.95	1.38	0.899	1.09	0.707	1.51	2.06
0.0388	0.0703	0.0467	0.115	0.141	0.269	0.0687	0.0412	0.0342	0.0716	0.0789	0.0836	0.117	0.0607	1.87
9.9	9.1	2.2	1.3	12.4	2.4	4.0	<1.00	<1.00	1.9	7.9	6.5	15.8	1.9	11.1
<0.000050	0.000053	<0.000050	<0.000050	0.000056	<0.000050	<0.000050	0.00006	<0.000050	<0.000050	0.000112	<0.000050	0.000057	<0.000050	0.000381
0.0000481	0.0000264	0.000017	0.0000368	0.0000224	0.0000396	0.0000439	0.0000319	0.0000356	0.0000318	0.0000419	0.000124	0.000136	0.0000543	0.0000495
<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
0.00063	0.00074	0.00029	0.00114	0.00033	0.00126	0.00067	0.00069	0.00073	0.00101	0.00537	0.00344	0.00074	0.00137	0.00122
0.0000489	0.0000287	0.000004	0.0000643	0.000479	0.000594	0.000699	0.0000058	0.0000046	0.0000226	0.000973	0.0000445	0.00123	0.0000042	0.000583
0.00083	0.00049	0.0005	0.0007	0.0003	0.00115	0.00057	0.00063	0.0007	0.00055	0.00076	0.00046	0.00107	0.00066	0.00165
<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
<0.000020	0.0000	<0.000020	<0.000020	<0.000020	0.0002	0.0001	<0.000020	<0.000020	<0.000020	0.0001	<0.000020	<0.000020	<0.000020	<0.000020
1.38	1.06	0.93	1.06	1.28	0.97	1.04	0.79	0.76	0.95	1.21	1.08	1.65	0.93	1.36
1.28	1.12	0.78	0.94	1.23	0.88	0.95	0.74	0.76	0.88	1.13	1.03	1.35	0.83	1.28
-0.10	0.06	-0.14	-0.12	-0.05	-0.09	-0.10	-0.05	-0.01	-0.07	-0.08	-0.05	-0.30	-0.09	-0.08
-3.9%	2.8%	-8.5%	-5.9%	-2.0%	-5.0%	-4.9%	-3.0%	-0.4%	-3.9%	-3.3%	-2.3%	-9.9%	-5.4%	-2.9%
21H1362-25	21H1755-01	21H1755-02	21H1755-03	21H1755-04	21H1755-05	21H1755-06	21H1755-07	21H1755-08	21H1755-09	21H1755-10	21H1755-11	21H1755-12	21H1755-13	21H1755-14

Method Blank - 1	Method Blank - 2	Method Blank - 3	Method Blank - 4
N/A	N/A	N/A	N/A
750	750	750	750
5.5	5.4	5.7	5.5
1.6	1.8	2.2	1.8
3.0	6.6	5.0	
0.3	0.5	0.6	
<0.5	<0.5	<0.5	<0.5
<0.100	<0.100	<0.100	<0.100
<0.0010	<0.0010	<0.0010	<0.0010
<0.000050	<0.000050	<0.000050	<0.000050
<0.000050	<0.000050	<0.000050	<0.000050
<0.00010	<0.00010	<0.00010	<0.00010
<0.000010	<0.000010	<0.000010	<0.000010
<0.000010	<0.000010	<0.000010	<0.000010
<0.000010	<0.000010	<0.000010	<0.000010
<0.0050	<0.0050	<0.0050	<0.0050
<0.0000020	<0.0000020	<0.0000020	<0.0000020
<0.040	<0.040	<0.040	<0.040
<0.00010	<0.00010	<0.00010	<0.00010
<0.0000050	<0.0000050	<0.0000050	<0.0000050
<0.00010	<0.00010	<0.00010	<0.00010
<0.0020	<0.0020	<0.0020	<0.0020
<0.000050	<0.000050	<0.000050	<0.000050
<0.000050	<0.000050	<0.000050	<0.000050
<0.0050	<0.0050	<0.0050	<0.0050
<0.000050	<0.000050	<0.000050	<0.000050
<0.000005	<0.000005	<0.000005	<0.000005
<0.000010	<0.000010	<0.000010	<0.000010
<0.000040	<0.000040	<0.000040	<0.000040
<0.010	<0.010	<0.010	<0.010
<0.010	<0.010	<0.010	<0.010
<0.00010	<0.00010	<0.00010	<0.00010
<0.10	<0.10	<0.10	<0.10
<0.000010	<0.000010	0.000114	0.000037
<0.020	<0.020	<0.020	<0.020
<0.00010	<0.00010	<0.00010	<0.00010
<1.00	<1.00	<1.00	<1.00
<0.000050	<0.000050	<0.000050	<0.000050
<0.0000040	<0.0000040	<0.0000040	<0.0000040
<0.000010	<0.000010	<0.000010	<0.000010
<0.000050	<0.000050	<0.000050	<0.000050
<0.00020	<0.00020	<0.00020	<0.00020
<0.0002	<0.0002	<0.0002	<0.0002
<0.0000010	<0.0000010	<0.0000010	<0.0000010
<0.00020	<0.00020	<0.00020	<0.00020
<0.0010	<0.0010	<0.0010	<0.0010
<0.000020	<0.000020	<0.000020	<0.000020
21G3906-12	21H1142-22	21H1362-26	21H1362-26

CERTIFICATE OF ANALYSIS - MEND-SFE QA/QC RESULTS



PAGE: 9 of 9
GLOBAL PROJECT NO: 1956 (B8)
CLIENT: First Mining Gold Corp.
PROJECT NAME: Springpole
PROJECT NO: ONS2104
REPORT VERSION: 3

Sulphate:

Certified Reference Material:	Parameter: Sulphate	% Recovery	Matrix Spike % Recovery	Units	QC Limits (%)
STD Mineral Water (28.5 mg/L)	27.50	96.5%		%	80 - 120
STD Mineral Water (28.5 mg/L)	27.00	94.7%		%	80 - 120
Spiked Blank (19.61 mg/L)	19.10		97.4%	%	80 - 120
Spiked Blank (19.61 mg/L)	20.30		103.5%	%	80 - 120

Dissolved Metals by ICP-MS:

Sample Code	Parameter	Result	Result Units	Total or Filtered	Method Type	Method Name	Date Analyzed	EQL	EQL Units	UCL	LCL
WO-21G3912											
21G3912_B1H0341-BLK1	Mercury dissolved	<0.0050	ug/L	F	metals	EPA 245.7*	5-Aug-21	0.005	ug/L		
21G3912_B1H0341-SRM1	Mercury dissolved	95	%	F	metals	EPA 245.7*	5-Aug-21	1	%	130	70
21G3912_B1H0422-BLK1	Mercury dissolved	<0.0050	ug/L	F	metals	EPA 245.7*	5-Aug-21	0.005	ug/L		
21G3912_B1H0422-BLK2	Mercury dissolved	<0.0050	ug/L	F	metals	EPA 245.7*	5-Aug-21	0.005	ug/L		
21G3912_B1H0422-SRM1	Mercury dissolved	107	%	F	metals	EPA 245.7*	5-Aug-21	1	%	130	70
21G3912_B1H0422-SRM2	Mercury dissolved	94	%	F	metals	EPA 245.7*	5-Aug-21	1	%	130	70
21G3912_B1H0558-BLK1	Aluminum dissolved	<0.0010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.001	mg/L		
21G3912_B1H0558-BLK1	Antimony dissolved	<0.000050	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00005	mg/L		
21G3912_B1H0558-BLK1	Arsenic dissolved	<0.000050	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00005	mg/L		
21G3912_B1H0558-BLK1	Barium dissolved	<0.00010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.0001	mg/L		
21G3912_B1H0558-BLK1	Beryllium dissolved	<0.000010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00001	mg/L		
21G3912_B1H0558-BLK1	Bismuth dissolved	<0.000010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00001	mg/L		
21G3912_B1H0558-BLK1	Boron dissolved	<0.0020	mg/L	F	metals	EPA 6020B	6-Aug-21	0.002	mg/L		
21G3912_B1H0558-BLK1	Cadmium dissolved	<0.0000020	mg/L	F	metals	EPA 6020B	6-Aug-21	0.000002	mg/L		
21G3912_B1H0558-BLK1	Calcium dissolved	<0.040	mg/L	F	metals	EPA 6020B	6-Aug-21	0.04	mg/L		
21G3912_B1H0558-BLK1	Chromium dissolved	<0.00010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.0001	mg/L		
21G3912_B1H0558-BLK1	Cobalt dissolved	<0.0000050	mg/L	F	metals	EPA 6020B	6-Aug-21	0.000005	mg/L		
21G3912_B1H0558-BLK1	Copper dissolved	<0.00010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.0001	mg/L		
21G3912_B1H0558-BLK1	Iron dissolved	<0.0020	mg/L	F	metals	EPA 6020B	6-Aug-21	0.002	mg/L		
21G3912_B1H0558-BLK1	Lead dissolved	<0.000050	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00005	mg/L		
21G3912_B1H0558-BLK1	Lithium dissolved	<0.000050	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00005	mg/L		
21G3912_B1H0558-BLK1	Magnesium dissolved	<0.0050	mg/L	F	metals	EPA 6020B	6-Aug-21	0.005	mg/L		
21G3912_B1H0558-BLK1	Manganese dissolved	<0.000050	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00005	mg/L		
21G3912_B1H0558-BLK1	Molybdenum dissolved	<0.000010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00001	mg/L		
21G3912_B1H0558-BLK1	Nickel dissolved	<0.000040	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00004	mg/L		
21G3912_B1H0558-BLK1	Phosphorus dissolved	<0.010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.01	mg/L		
21G3912_B1H0558-BLK1	Potassium dissolved	<0.010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.01	mg/L		
21G3912_B1H0558-BLK1	Selenium dissolved	<0.00010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.0001	mg/L		
21G3912_B1H0558-BLK1	Silicon dissolved	<0.10	mg/L	F	metals	EPA 6020B	6-Aug-21	0.1	mg/L		
21G3912_B1H0558-BLK1	Silver dissolved	<0.000010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00001	mg/L		
21G3912_B1H0558-BLK1	Sodium dissolved	<0.020	mg/L	F	metals	EPA 6020B	6-Aug-21	0.02	mg/L		
21G3912_B1H0558-BLK1	Strontium dissolved	<0.00010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.0001	mg/L		
21G3912_B1H0558-BLK1	Sulfur dissolved	<1.00	mg/L	F	metals	EPA 6020B	6-Aug-21	1	mg/L		
21G3912_B1H0558-BLK1	Tellurium dissolved	<0.000050	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00005	mg/L		
21G3912_B1H0558-BLK1	Thallium dissolved	<0.0000040	mg/L	F	metals	EPA 6020B	6-Aug-21	0.000004	mg/L		
21G3912_B1H0558-BLK1	Thorium dissolved	<0.000010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00001	mg/L		
21G3912_B1H0558-BLK1	Tin dissolved	<0.000050	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00005	mg/L		
21G3912_B1H0558-BLK1	Titanium dissolved	<0.00020	mg/L	F	metals	EPA 6020B	6-Aug-21	0.0002	mg/L		
21G3912_B1H0558-BLK1	Uranium dissolved	<0.0000010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.000001	mg/L		
21G3912_B1H0558-BLK1	Vanadium dissolved	<0.00020	mg/L	F	metals	EPA 6020B	6-Aug-21	0.0002	mg/L		
21G3912_B1H0558-BLK1	Zinc dissolved	<0.0010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.001	mg/L		
21G3912_B1H0558-BLK1	Zirconium dissolved	<0.000020	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00002	mg/L		
21G3912_B1H0558-BLK1	Tungsten dissolved	<0.20	ug/L	F	metals	EPA 6020B	6-Aug-21	0.2	ug/L		
21G3912_B1H0558-BLK2	Aluminum dissolved	<0.0010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.001	mg/L		
21G3912_B1H0558-BLK2	Antimony dissolved	<0.000050	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00005	mg/L		
21G3912_B1H0558-BLK2	Arsenic dissolved	<0.000050	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00005	mg/L		
21G3912_B1H0558-BLK2	Barium dissolved	<0.00010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.0001	mg/L		
21G3912_B1H0558-BLK2	Beryllium dissolved	<0.000010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00001	mg/L		
21G3912_B1H0558-BLK2	Bismuth dissolved	<0.000010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00001	mg/L		
21G3912_B1H0558-BLK2	Boron dissolved	<0.0020	mg/L	F	metals	EPA 6020B	6-Aug-21	0.002	mg/L		
21G3912_B1H0558-BLK2	Cadmium dissolved	<0.0000020	mg/L	F	metals	EPA 6020B	6-Aug-21	0.000002	mg/L		
21G3912_B1H0558-BLK2	Calcium dissolved	<0.040	mg/L	F	metals	EPA 6020B	6-Aug-21	0.04	mg/L		
21G3912_B1H0558-BLK2	Chromium dissolved	<0.00010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.0001	mg/L		
21G3912_B1H0558-BLK2	Cobalt dissolved	<0.0000050	mg/L	F	metals	EPA 6020B	6-Aug-21	0.000005	mg/L		
21G3912_B1H0558-BLK2	Copper dissolved	<0.00010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.0001	mg/L		
21G3912_B1H0558-BLK2	Iron dissolved	<0.0020	mg/L	F	metals	EPA 6020B	6-Aug-21	0.002	mg/L		
21G3912_B1H0558-BLK2	Lead dissolved	<0.000050	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00005	mg/L		
21G3912_B1H0558-BLK2	Lithium dissolved	<0.000050	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00005	mg/L		
21G3912_B1H0558-BLK2	Magnesium dissolved	<0.0050	mg/L	F	metals	EPA 6020B	6-Aug-21	0.005	mg/L		
21G3912_B1H0558-BLK2	Manganese dissolved	<0.000050	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00005	mg/L		
21G3912_B1H0558-BLK2	Molybdenum dissolved	<0.000010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00001	mg/L		
21G3912_B1H0558-BLK2	Nickel dissolved	<0.000040	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00004	mg/L		
21G3912_B1H0558-BLK2	Phosphorus dissolved	<0.010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.01	mg/L		
21G3912_B1H0558-BLK2	Potassium dissolved	<0.010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.01	mg/L		
21G3912_B1H0558-BLK2	Selenium dissolved	<0.00010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.0001	mg/L		
21G3912_B1H0558-BLK2	Silicon dissolved	<0.10	mg/L	F	metals	EPA 6020B	6-Aug-21	0.1	mg/L		
21G3912_B1H0558-BLK2	Silver dissolved	<0.000010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00001	mg/L		
21G3912_B1H0558-BLK2	Sodium dissolved	<0.020	mg/L	F	metals	EPA 6020B	6-Aug-21	0.02	mg/L		
21G3912_B1H0558-BLK2	Strontium dissolved	<0.00010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.0001	mg/L		
21G3912_B1H0558-BLK2	Sulfur dissolved	<1.00	mg/L	F	metals	EPA 6020B	6-Aug-21	1	mg/L		
21G3912_B1H0558-BLK2	Tellurium dissolved	<0.000050	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00005	mg/L		
21G3912_B1H0558-BLK2	Thallium dissolved	<0.0000040	mg/L	F	metals	EPA 6020B	6-Aug-21	0.000004	mg/L		
21G3912_B1H0558-BLK2	Thorium dissolved	<0.000010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00001	mg/L		
21G3912_B1H0558-BLK2	Tin dissolved	<0.000050	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00005	mg/L		

Sample Code	Parameter	Result	Result Units	Total or Filtered	Method Type	Method Name	Date Analyzed	EQL	EQL Units	UCL	LCL
WO-21G3912											
21G3912_B1H0558-BLK2	Titanium dissolved	<0.00020	mg/L	F	metals	EPA 6020B	6-Aug-21	0.0002	mg/L		
21G3912_B1H0558-BLK2	Uranium dissolved	<0.0000010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.000001	mg/L		
21G3912_B1H0558-BLK2	Vanadium dissolved	<0.00020	mg/L	F	metals	EPA 6020B	6-Aug-21	0.0002	mg/L		
21G3912_B1H0558-BLK2	Zinc dissolved	<0.0010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.001	mg/L		
21G3912_B1H0558-BLK2	Zirconium dissolved	<0.000020	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00002	mg/L		
21G3912_B1H0558-BLK2	Tungsten dissolved	<0.20	ug/L	F	metals	EPA 6020B	6-Aug-21	0.2	ug/L		
21G3912_B1H0558-BS1	Aluminum dissolved	107	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS1	Antimony dissolved	99	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS1	Arsenic dissolved	98	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS1	Barium dissolved	98	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS1	Beryllium dissolved	98	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS1	Bismuth dissolved	100	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS1	Boron dissolved	96	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS1	Cadmium dissolved	100	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS1	Calcium dissolved	100	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS1	Chromium dissolved	94	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS1	Cobalt dissolved	94	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS1	Copper dissolved	95	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS1	Iron dissolved	99	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS1	Lead dissolved	108	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS1	Lithium dissolved	95	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS1	Magnesium dissolved	103	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS1	Manganese dissolved	90	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS1	Molybdenum dissolved	96	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS1	Nickel dissolved	96	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS1	Phosphorus dissolved	85	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS1	Potassium dissolved	98	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS1	Selenium dissolved	105	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS1	Silicon dissolved	96	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS1	Silver dissolved	94	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS1	Sodium dissolved	102	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS1	Strontium dissolved	91	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS1	Sulfur dissolved	84	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS1	Tellurium dissolved	94	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS1	Thallium dissolved	96	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS1	Thorium dissolved	85	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS1	Tin dissolved	102	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS1	Titanium dissolved	106	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS1	Tungsten dissolved	96	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS1	Uranium dissolved	87	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS1	Vanadium dissolved	94	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS1	Zinc dissolved	109	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS1	Zirconium dissolved	101	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS2	Aluminum dissolved	119	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS2	Antimony dissolved	100	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS2	Arsenic dissolved	98	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS2	Barium dissolved	101	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS2	Beryllium dissolved	96	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS2	Bismuth dissolved	102	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS2	Boron dissolved	111	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS2	Cadmium dissolved	100	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS2	Calcium dissolved	101	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS2	Chromium dissolved	97	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS2	Cobalt dissolved	95	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS2	Copper dissolved	94	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS2	Iron dissolved	100	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS2	Lead dissolved	110	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS2	Lithium dissolved	93	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS2	Magnesium dissolved	101	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS2	Manganese dissolved	90	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS2	Molybdenum dissolved	97	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS2	Nickel dissolved	98	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS2	Phosphorus dissolved	86	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS2	Potassium dissolved	97	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS2	Selenium dissolved	104	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS2	Silicon dissolved	81	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS2	Silver dissolved	95	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS2	Sodium dissolved	101	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS2	Strontium dissolved	94	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS2	Sulfur dissolved	102	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS2	Tellurium dissolved	90	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS2	Thallium dissolved	97	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS2	Thorium dissolved	86	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS2	Tin dissolved	102	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS2	Titanium dissolved	104	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS2	Tungsten dissolved	98	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS2	Uranium dissolved	88	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS2	Vanadium dissolved	95	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS2	Zinc dissolved	108	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-BS2	Zirconium dissolved	101	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3912_B1H0558-SRM1	Aluminum dissolved	92	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM1	Antimony dissolved	106	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM1	Arsenic dissolved	105	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM1	Barium dissolved	103	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM1	Beryllium dissolved	97	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM1	Boron dissolved	95	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM1	Cadmium dissolved	101	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM1	Calcium dissolved	105	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM1	Chromium dissolved	97	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM1	Cobalt dissolved	97	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM1	Copper dissolved	96	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70

Sample Code	Parameter	Result	Result Units	Total or Filtered	Method Type	Method Name	Date Analyzed	EQL	EQL Units	UCL	LCL
WO-21G3912											
21G3912_B1H0558-SRM1	Iron dissolved	101	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM1	Lead dissolved	108	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM1	Lithium dissolved	96	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM1	Magnesium dissolved	106	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM1	Manganese dissolved	91	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM1	Molybdenum dissolved	102	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM1	Nickel dissolved	100	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM1	Phosphorus dissolved	84	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM1	Potassium dissolved	106	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM1	Selenium dissolved	110	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM1	Sodium dissolved	107	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM1	Strontium dissolved	93	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM1	Thallium dissolved	97	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM1	Uranium dissolved	96	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM1	Vanadium dissolved	94	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM1	Zinc dissolved	107	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM2	Aluminum dissolved	92	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM2	Antimony dissolved	105	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM2	Arsenic dissolved	104	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM2	Barium dissolved	102	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM2	Beryllium dissolved	95	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM2	Boron dissolved	93	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM2	Cadmium dissolved	99	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM2	Calcium dissolved	106	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM2	Chromium dissolved	96	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM2	Cobalt dissolved	96	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM2	Copper dissolved	95	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM2	Iron dissolved	100	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM2	Lead dissolved	111	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM2	Lithium dissolved	93	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM2	Magnesium dissolved	103	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM2	Manganese dissolved	91	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM2	Molybdenum dissolved	101	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM2	Nickel dissolved	99	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM2	Phosphorus dissolved	101	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM2	Potassium dissolved	102	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM2	Selenium dissolved	109	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM2	Sodium dissolved	104	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM2	Strontium dissolved	92	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM2	Thallium dissolved	99	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM2	Uranium dissolved	98	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM2	Vanadium dissolved	94	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3912_B1H0558-SRM2	Zinc dissolved	106	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
WO-21G3906											
21G3906_B1H0341-BLK1	Mercury dissolved	<0.0050	ug/L	F	metals	EPA 245.7*	5-Aug-21	0.005	ug/L		
21G3906_B1H0341-SRM1	Mercury dissolved	95		F	metals	EPA 245.7*	5-Aug-21	1	%	130	70
21G3906_B1H0554-BLK1	Aluminum dissolved	<0.0010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.001	mg/L		
21G3906_B1H0554-BLK1	Antimony dissolved	<0.000050	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00005	mg/L		
21G3906_B1H0554-BLK1	Arsenic dissolved	<0.000050	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00005	mg/L		
21G3906_B1H0554-BLK1	Barium dissolved	<0.00010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.0001	mg/L		
21G3906_B1H0554-BLK1	Beryllium dissolved	<0.000010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00001	mg/L		
21G3906_B1H0554-BLK1	Bismuth dissolved	<0.000010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00001	mg/L		
21G3906_B1H0554-BLK1	Boron dissolved	<0.0010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.001	mg/L		
21G3906_B1H0554-BLK1	Cadmium dissolved	<0.0000020	mg/L	F	metals	EPA 6020B	6-Aug-21	0.000002	mg/L		
21G3906_B1H0554-BLK1	Calcium dissolved	<0.040	mg/L	F	metals	EPA 6020B	6-Aug-21	0.04	mg/L		
21G3906_B1H0554-BLK1	Chromium dissolved	<0.00010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.0001	mg/L		
21G3906_B1H0554-BLK1	Cobalt dissolved	<0.0000050	mg/L	F	metals	EPA 6020B	6-Aug-21	0.000005	mg/L		
21G3906_B1H0554-BLK1	Copper dissolved	<0.00010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.0001	mg/L		
21G3906_B1H0554-BLK1	Iron dissolved	<0.0020	mg/L	F	metals	EPA 6020B	6-Aug-21	0.002	mg/L		
21G3906_B1H0554-BLK1	Lead dissolved	<0.000050	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00005	mg/L		
21G3906_B1H0554-BLK1	Lithium dissolved	<0.000050	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00005	mg/L		
21G3906_B1H0554-BLK1	Magnesium dissolved	<0.0050	mg/L	F	metals	EPA 6020B	6-Aug-21	0.005	mg/L		
21G3906_B1H0554-BLK1	Manganese dissolved	<0.000050	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00005	mg/L		
21G3906_B1H0554-BLK1	Molybdenum dissolved	<0.000010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00001	mg/L		
21G3906_B1H0554-BLK1	Nickel dissolved	<0.000020	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00002	mg/L		
21G3906_B1H0554-BLK1	Phosphorus dissolved	<0.010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.01	mg/L		
21G3906_B1H0554-BLK1	Potassium dissolved	<0.010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.01	mg/L		
21G3906_B1H0554-BLK1	Selenium dissolved	<0.00010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.0001	mg/L		
21G3906_B1H0554-BLK1	Silicon dissolved	<0.10	mg/L	F	metals	EPA 6020B	6-Aug-21	0.1	mg/L		
21G3906_B1H0554-BLK1	Silver dissolved	<0.000010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00001	mg/L		
21G3906_B1H0554-BLK1	Sodium dissolved	<0.010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.01	mg/L		
21G3906_B1H0554-BLK1	Strontium dissolved	<0.00010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.0001	mg/L		
21G3906_B1H0554-BLK1	Sulfur dissolved	<0.50	mg/L	F	metals	EPA 6020B	6-Aug-21	0.5	mg/L		
21G3906_B1H0554-BLK1	Tellurium dissolved	<0.000050	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00005	mg/L		
21G3906_B1H0554-BLK1	Thallium dissolved	<0.0000040	mg/L	F	metals	EPA 6020B	6-Aug-21	0.000004	mg/L		
21G3906_B1H0554-BLK1	Thorium dissolved	<0.000010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00001	mg/L		
21G3906_B1H0554-BLK1	Tin dissolved	<0.000050	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00005	mg/L		
21G3906_B1H0554-BLK1	Titanium dissolved	<0.00020	mg/L	F	metals	EPA 6020B	6-Aug-21	0.0002	mg/L		
21G3906_B1H0554-BLK1	Uranium dissolved	<0.0000010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.000001	mg/L		
21G3906_B1H0554-BLK1	Vanadium dissolved	<0.00020	mg/L	F	metals	EPA 6020B	6-Aug-21	0.0002	mg/L		
21G3906_B1H0554-BLK1	Zinc dissolved	<0.0010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.001	mg/L		
21G3906_B1H0554-BLK1	Zirconium dissolved	<0.000020	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00002	mg/L		
21G3906_B1H0554-BLK1	Tungsten dissolved	<0.20	ug/L	F	metals	EPA 6020B	6-Aug-21	0.2	ug/L		
21G3906_B1H0554-BLK2	Aluminum dissolved	<0.0010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.001	mg/L		
21G3906_B1H0554-BLK2	Antimony dissolved	<0.000050	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00005	mg/L		
21G3906_B1H0554-BLK2	Arsenic dissolved	<0.000050	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00005	mg/L		
21G3906_B1H0554-BLK2	Barium dissolved	<0.00010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.0001	mg/L		
21G3906_B1H0554-BLK2	Beryllium dissolved	<0.000010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00001	mg/L		
21G3906_B1H0554-BLK2	Bismuth dissolved	<0.000010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00001	mg/L		
21G3906_B1H0554-BLK2	Boron dissolved	<0.0010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.001	mg/L		
21G3906_B1H0554-BLK2	Cadmium dissolved	<0.0000020	mg/L	F	metals	EPA 6020B	6-Aug-21	0.000002	mg/L		

Sample Code	Parameter	Result	Result Units	Total or Filtered	Method Type	Method Name	Date Analyzed	EQL	EQL Units	UCL	LCL
WO-21G3912											
21G3906_B1H0554-BLK2	Calcium dissolved	<0.040	mg/L	F	metals	EPA 6020B	6-Aug-21	0.04	mg/L		
21G3906_B1H0554-BLK2	Chromium dissolved	<0.00010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.0001	mg/L		
21G3906_B1H0554-BLK2	Cobalt dissolved	<0.000050	mg/L	F	metals	EPA 6020B	6-Aug-21	0.000005	mg/L		
21G3906_B1H0554-BLK2	Copper dissolved	<0.00010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.0001	mg/L		
21G3906_B1H0554-BLK2	Iron dissolved	<0.0020	mg/L	F	metals	EPA 6020B	6-Aug-21	0.002	mg/L		
21G3906_B1H0554-BLK2	Lead dissolved	<0.000050	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00005	mg/L		
21G3906_B1H0554-BLK2	Lithium dissolved	<0.000050	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00005	mg/L		
21G3906_B1H0554-BLK2	Magnesium dissolved	<0.0050	mg/L	F	metals	EPA 6020B	6-Aug-21	0.005	mg/L		
21G3906_B1H0554-BLK2	Manganese dissolved	<0.000050	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00005	mg/L		
21G3906_B1H0554-BLK2	Molybdenum dissolved	<0.000010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00001	mg/L		
21G3906_B1H0554-BLK2	Nickel dissolved	<0.000020	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00002	mg/L		
21G3906_B1H0554-BLK2	Phosphorus dissolved	<0.010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.01	mg/L		
21G3906_B1H0554-BLK2	Potassium dissolved	<0.010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.01	mg/L		
21G3906_B1H0554-BLK2	Selenium dissolved	<0.00010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.0001	mg/L		
21G3906_B1H0554-BLK2	Silicon dissolved	<0.10	mg/L	F	metals	EPA 6020B	6-Aug-21	0.1	mg/L		
21G3906_B1H0554-BLK2	Silver dissolved	<0.000010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00001	mg/L		
21G3906_B1H0554-BLK2	Sodium dissolved	<0.010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.01	mg/L		
21G3906_B1H0554-BLK2	Strontium dissolved	<0.00010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.0001	mg/L		
21G3906_B1H0554-BLK2	Sulfur dissolved	<0.50	mg/L	F	metals	EPA 6020B	6-Aug-21	0.5	mg/L		
21G3906_B1H0554-BLK2	Tellurium dissolved	<0.000050	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00005	mg/L		
21G3906_B1H0554-BLK2	Thallium dissolved	<0.0000040	mg/L	F	metals	EPA 6020B	6-Aug-21	0.000004	mg/L		
21G3906_B1H0554-BLK2	Thorium dissolved	<0.000010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00001	mg/L		
21G3906_B1H0554-BLK2	Tin dissolved	<0.000050	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00005	mg/L		
21G3906_B1H0554-BLK2	Titanium dissolved	<0.00020	mg/L	F	metals	EPA 6020B	6-Aug-21	0.0002	mg/L		
21G3906_B1H0554-BLK2	Uranium dissolved	<0.000010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.000001	mg/L		
21G3906_B1H0554-BLK2	Vanadium dissolved	<0.00020	mg/L	F	metals	EPA 6020B	6-Aug-21	0.0002	mg/L		
21G3906_B1H0554-BLK2	Zinc dissolved	<0.0010	mg/L	F	metals	EPA 6020B	6-Aug-21	0.001	mg/L		
21G3906_B1H0554-BLK2	Zirconium dissolved	<0.000020	mg/L	F	metals	EPA 6020B	6-Aug-21	0.00002	mg/L		
21G3906_B1H0554-BLK2	Tungsten dissolved	<0.20	ug/L	F	metals	EPA 6020B	6-Aug-21	0.2	ug/L		
21G3906_B1H0554-BS1	Aluminum dissolved	101	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS1	Antimony dissolved	98	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS1	Arsenic dissolved	99	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS1	Barium dissolved	95	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS1	Beryllium dissolved	102	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS1	Bismuth dissolved	100	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS1	Boron dissolved	109	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS1	Cadmium dissolved	100	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS1	Calcium dissolved	107	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS1	Chromium dissolved	101	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS1	Cobalt dissolved	99	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS1	Copper dissolved	99	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS1	Iron dissolved	101	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS1	Lead dissolved	108	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS1	Lithium dissolved	102	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS1	Magnesium dissolved	105	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS1	Manganese dissolved	93	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS1	Molybdenum dissolved	98	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS1	Nickel dissolved	101	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS1	Phosphorus dissolved	90	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS1	Potassium dissolved	102	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS1	Selenium dissolved	106	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS1	Silicon dissolved	105	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS1	Silver dissolved	95	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS1	Sodium dissolved	105	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS1	Strontium dissolved	96	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS1	Sulfur dissolved	80	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS1	Tellurium dissolved	95	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS1	Thallium dissolved	96	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS1	Thorium dissolved	84	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS1	Tin dissolved	101	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS1	Titanium dissolved	115	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS1	Tungsten dissolved	96	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS1	Uranium dissolved	87	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS1	Vanadium dissolved	100	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS1	Zinc dissolved	111	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS1	Zirconium dissolved	104	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS2	Aluminum dissolved	115	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS2	Antimony dissolved	101	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS2	Arsenic dissolved	97	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS2	Barium dissolved	112	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS2	Beryllium dissolved	103	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS2	Bismuth dissolved	102	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS2	Boron dissolved	107	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS2	Cadmium dissolved	101	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS2	Calcium dissolved	111	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS2	Chromium dissolved	100	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS2	Cobalt dissolved	97	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS2	Copper dissolved	107	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS2	Iron dissolved	100	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS2	Lead dissolved	109	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS2	Lithium dissolved	103	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS2	Magnesium dissolved	105	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS2	Manganese dissolved	95	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS2	Molybdenum dissolved	98	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS2	Nickel dissolved	101	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS2	Phosphorus dissolved	91	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS2	Potassium dissolved	101	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS2	Selenium dissolved	105	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS2	Silicon dissolved	114	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS2	Silver dissolved	96	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS2	Sodium dissolved	105	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80

Sample Code	Parameter	Result	Result Units	Total or Filtered	Method Type	Method Name	Date Analyzed	EQL	EQL Units	UCL	LCL
WO-21G3912											
21G3906_B1H0554-BS2	Strontium dissolved	102	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS2	Sulfur dissolved	111	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS2	Tellurium dissolved	99	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS2	Thallium dissolved	97	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS2	Thorium dissolved	85	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS2	Tin dissolved	104	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS2	Titanium dissolved	105	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS2	Tungsten dissolved	97	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS2	Uranium dissolved	88	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS2	Vanadium dissolved	100	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS2	Zinc dissolved	112	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-BS2	Zirconium dissolved	104	%	F	metals	EPA 6020B	6-Aug-21	1	%	120	80
21G3906_B1H0554-SRM1	Aluminum dissolved	97	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM1	Antimony dissolved	108	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM1	Arsenic dissolved	108	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM1	Barium dissolved	98	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM1	Beryllium dissolved	104	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM1	Boron dissolved	101	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM1	Cadmium dissolved	102	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM1	Calcium dissolved	113	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM1	Chromium dissolved	102	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM1	Cobalt dissolved	102	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM1	Copper dissolved	100	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM1	Iron dissolved	103	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM1	Lead dissolved	111	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM1	Lithium dissolved	104	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM1	Magnesium dissolved	110	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM1	Manganese dissolved	96	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM1	Molybdenum dissolved	104	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM1	Nickel dissolved	105	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM1	Phosphorus dissolved	126	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM1	Potassium dissolved	110	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM1	Selenium dissolved	110	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM1	Sodium dissolved	112	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM1	Strontium dissolved	96	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM1	Thallium dissolved	100	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM1	Uranium dissolved	98	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM1	Vanadium dissolved	100	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM1	Zinc dissolved	111	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM2	Aluminum dissolved	92	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM2	Antimony dissolved	108	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM2	Arsenic dissolved	106	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM2	Barium dissolved	104	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM2	Beryllium dissolved	103	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM2	Boron dissolved	100	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM2	Cadmium dissolved	103	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM2	Calcium dissolved	111	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM2	Chromium dissolved	102	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM2	Cobalt dissolved	102	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM2	Copper dissolved	100	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM2	Iron dissolved	101	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM2	Lead dissolved	112	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM2	Lithium dissolved	104	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM2	Magnesium dissolved	109	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM2	Manganese dissolved	96	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM2	Molybdenum dissolved	104	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM2	Nickel dissolved	105	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM2	Phosphorus dissolved	109	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM2	Potassium dissolved	108	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM2	Selenium dissolved	111	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM2	Sodium dissolved	110	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM2	Strontium dissolved	97	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM2	Thallium dissolved	100	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM2	Uranium dissolved	98	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM2	Vanadium dissolved	100	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
21G3906_B1H0554-SRM2	Zinc dissolved	111	%	F	metals	EPA 6020B	6-Aug-21	1	%	130	70
WO-21H0858											
21H0858_B1H1009-BLK1	Mercury dissolved	<0.0050	ug/L	F	metals	EPA 245.7*	11-Aug-21	0.005	ug/L		
21H0858_B1H1009-BLK2	Mercury dissolved	<0.0050	ug/L	F	metals	EPA 245.7*	11-Aug-21	0.005	ug/L		
21H0858_B1H1009-SRM1	Mercury dissolved	101	%	F	metals	EPA 245.7*	11-Aug-21	1	%	130	70
21H0858_B1H1009-SRM2	Mercury dissolved	88	%	F	metals	EPA 245.7*	11-Aug-21	1	%	130	70
21H0858_B1H1100-BLK1	Aluminum dissolved	<0.0010	mg/L	F	metals	EPA 6020B	11-Aug-21	0.001	mg/L		
21H0858_B1H1100-BLK1	Antimony dissolved	<0.000050	mg/L	F	metals	EPA 6020B	11-Aug-21	0.00005	mg/L		
21H0858_B1H1100-BLK1	Arsenic dissolved	<0.000050	mg/L	F	metals	EPA 6020B	11-Aug-21	0.00005	mg/L		
21H0858_B1H1100-BLK1	Barium dissolved	<0.00010	mg/L	F	metals	EPA 6020B	11-Aug-21	0.0001	mg/L		
21H0858_B1H1100-BLK1	Beryllium dissolved	<0.000010	mg/L	F	metals	EPA 6020B	11-Aug-21	0.00001	mg/L		
21H0858_B1H1100-BLK1	Bismuth dissolved	<0.000010	mg/L	F	metals	EPA 6020B	11-Aug-21	0.00001	mg/L		
21H0858_B1H1100-BLK1	Boron dissolved	<0.0020	mg/L	F	metals	EPA 6020B	11-Aug-21	0.002	mg/L		
21H0858_B1H1100-BLK1	Cadmium dissolved	<0.0000020	mg/L	F	metals	EPA 6020B	11-Aug-21	0.000002	mg/L		
21H0858_B1H1100-BLK1	Calcium dissolved	<0.040	mg/L	F	metals	EPA 6020B	11-Aug-21	0.04	mg/L		
21H0858_B1H1100-BLK1	Chromium dissolved	<0.00010	mg/L	F	metals	EPA 6020B	11-Aug-21	0.0001	mg/L		
21H0858_B1H1100-BLK1	Cobalt dissolved	<0.0000050	mg/L	F	metals	EPA 6020B	11-Aug-21	0.000005	mg/L		
21H0858_B1H1100-BLK1	Copper dissolved	<0.00010	mg/L	F	metals	EPA 6020B	11-Aug-21	0.0001	mg/L		
21H0858_B1H1100-BLK1	Iron dissolved	<0.0020	mg/L	F	metals	EPA 6020B	11-Aug-21	0.002	mg/L		
21H0858_B1H1100-BLK1	Lead dissolved	<0.000050	mg/L	F	metals	EPA 6020B	11-Aug-21	0.00005	mg/L		
21H0858_B1H1100-BLK1	Lithium dissolved	<0.000050	mg/L	F	metals	EPA 6020B	11-Aug-21	0.00005	mg/L		
21H0858_B1H1100-BLK1	Magnesium dissolved	<0.0050	mg/L	F	metals	EPA 6020B	11-Aug-21	0.005	mg/L		
21H0858_B1H1100-BLK1	Manganese dissolved	<0.000050	mg/L	F	metals	EPA 6020B	11-Aug-21	0.00005	mg/L		
21H0858_B1H1100-BLK1	Molybdenum dissolved	<0.000010	mg/L	F	metals	EPA 6020B	11-Aug-21	0.00001	mg/L		
21H0858_B1H1100-BLK1	Nickel dissolved	<0.000040	mg/L	F	metals	EPA 6020B	11-Aug-21	0.00004	mg/L		
21H0858_B1H1100-BLK1	Phosphorus dissolved	<0.010	mg/L	F	metals	EPA 6020B	11-Aug-21	0.01	mg/L		

Sample Code	Parameter	Result	Result Units	Total or Filtered	Method Type	Method Name	Date Analyzed	EQL	EQL Units	UCL	LCL
WO-21G3912											
21H0858_B1H1100-BLK1	Potassium dissolved	<0.010	mg/L	F	metals	EPA 6020B	11-Aug-21	0.01	mg/L		
21H0858_B1H1100-BLK1	Selenium dissolved	<0.00010	mg/L	F	metals	EPA 6020B	11-Aug-21	0.0001	mg/L		
21H0858_B1H1100-BLK1	Silicon dissolved	<0.10	mg/L	F	metals	EPA 6020B	11-Aug-21	0.1	mg/L		
21H0858_B1H1100-BLK1	Silver dissolved	<0.000010	mg/L	F	metals	EPA 6020B	11-Aug-21	0.00001	mg/L		
21H0858_B1H1100-BLK1	Sodium dissolved	<0.020	mg/L	F	metals	EPA 6020B	11-Aug-21	0.02	mg/L		
21H0858_B1H1100-BLK1	Strontium dissolved	<0.00010	mg/L	F	metals	EPA 6020B	11-Aug-21	0.0001	mg/L		
21H0858_B1H1100-BLK1	Sulfur dissolved	<0.50	mg/L	F	metals	EPA 6020B	11-Aug-21	0.5	mg/L		
21H0858_B1H1100-BLK1	Tellurium dissolved	<0.000050	mg/L	F	metals	EPA 6020B	11-Aug-21	0.00005	mg/L		
21H0858_B1H1100-BLK1	Thallium dissolved	<0.0000040	mg/L	F	metals	EPA 6020B	11-Aug-21	0.000004	mg/L		
21H0858_B1H1100-BLK1	Thorium dissolved	<0.000010	mg/L	F	metals	EPA 6020B	11-Aug-21	0.00001	mg/L		
21H0858_B1H1100-BLK1	Tin dissolved	<0.000050	mg/L	F	metals	EPA 6020B	11-Aug-21	0.00005	mg/L		
21H0858_B1H1100-BLK1	Titanium dissolved	<0.00020	mg/L	F	metals	EPA 6020B	11-Aug-21	0.0002	mg/L		
21H0858_B1H1100-BLK1	Uranium dissolved	<0.0000010	mg/L	F	metals	EPA 6020B	11-Aug-21	0.000001	mg/L		
21H0858_B1H1100-BLK1	Vanadium dissolved	<0.00020	mg/L	F	metals	EPA 6020B	11-Aug-21	0.0002	mg/L		
21H0858_B1H1100-BLK1	Zinc dissolved	<0.0010	mg/L	F	metals	EPA 6020B	11-Aug-21	0.001	mg/L		
21H0858_B1H1100-BLK1	Zirconium dissolved	<0.000020	mg/L	F	metals	EPA 6020B	11-Aug-21	0.00002	mg/L		
21H0858_B1H1100-BLK1	Tungsten dissolved	<0.20	ug/L	F	metals	EPA 6020B	11-Aug-21	0.2	ug/L		
21H0858_B1H1100-BLK2	Aluminum dissolved	<0.0010	mg/L	F	metals	EPA 6020B	12-Aug-21	0.001	mg/L		
21H0858_B1H1100-BLK2	Antimony dissolved	<0.000050	mg/L	F	metals	EPA 6020B	12-Aug-21	0.00005	mg/L		
21H0858_B1H1100-BLK2	Arsenic dissolved	<0.000050	mg/L	F	metals	EPA 6020B	12-Aug-21	0.00005	mg/L		
21H0858_B1H1100-BLK2	Barium dissolved	<0.00010	mg/L	F	metals	EPA 6020B	12-Aug-21	0.0001	mg/L		
21H0858_B1H1100-BLK2	Beryllium dissolved	<0.000010	mg/L	F	metals	EPA 6020B	12-Aug-21	0.00001	mg/L		
21H0858_B1H1100-BLK2	Bismuth dissolved	<0.000010	mg/L	F	metals	EPA 6020B	12-Aug-21	0.00001	mg/L		
21H0858_B1H1100-BLK2	Boron dissolved	<0.0020	mg/L	F	metals	EPA 6020B	12-Aug-21	0.002	mg/L		
21H0858_B1H1100-BLK2	Cadmium dissolved	<0.0000020	mg/L	F	metals	EPA 6020B	12-Aug-21	0.000002	mg/L		
21H0858_B1H1100-BLK2	Calcium dissolved	<0.040	mg/L	F	metals	EPA 6020B	12-Aug-21	0.04	mg/L		
21H0858_B1H1100-BLK2	Chromium dissolved	<0.00010	mg/L	F	metals	EPA 6020B	12-Aug-21	0.0001	mg/L		
21H0858_B1H1100-BLK2	Cobalt dissolved	<0.0000050	mg/L	F	metals	EPA 6020B	12-Aug-21	0.000005	mg/L		
21H0858_B1H1100-BLK2	Copper dissolved	<0.00010	mg/L	F	metals	EPA 6020B	12-Aug-21	0.0001	mg/L		
21H0858_B1H1100-BLK2	Iron dissolved	<0.0020	mg/L	F	metals	EPA 6020B	12-Aug-21	0.002	mg/L		
21H0858_B1H1100-BLK2	Lead dissolved	<0.000050	mg/L	F	metals	EPA 6020B	12-Aug-21	0.00005	mg/L		
21H0858_B1H1100-BLK2	Lithium dissolved	<0.000050	mg/L	F	metals	EPA 6020B	12-Aug-21	0.00005	mg/L		
21H0858_B1H1100-BLK2	Magnesium dissolved	<0.0050	mg/L	F	metals	EPA 6020B	12-Aug-21	0.005	mg/L		
21H0858_B1H1100-BLK2	Manganese dissolved	<0.000050	mg/L	F	metals	EPA 6020B	12-Aug-21	0.00005	mg/L		
21H0858_B1H1100-BLK2	Molybdenum dissolved	<0.000010	mg/L	F	metals	EPA 6020B	12-Aug-21	0.00001	mg/L		
21H0858_B1H1100-BLK2	Nickel dissolved	<0.000040	mg/L	F	metals	EPA 6020B	12-Aug-21	0.00004	mg/L		
21H0858_B1H1100-BLK2	Phosphorus dissolved	<0.010	mg/L	F	metals	EPA 6020B	12-Aug-21	0.01	mg/L		
21H0858_B1H1100-BLK2	Potassium dissolved	<0.010	mg/L	F	metals	EPA 6020B	12-Aug-21	0.01	mg/L		
21H0858_B1H1100-BLK2	Selenium dissolved	<0.00010	mg/L	F	metals	EPA 6020B	12-Aug-21	0.0001	mg/L		
21H0858_B1H1100-BLK2	Silicon dissolved	<0.10	mg/L	F	metals	EPA 6020B	12-Aug-21	0.1	mg/L		
21H0858_B1H1100-BLK2	Silver dissolved	<0.000010	mg/L	F	metals	EPA 6020B	12-Aug-21	0.00001	mg/L		
21H0858_B1H1100-BLK2	Sodium dissolved	<0.020	mg/L	F	metals	EPA 6020B	12-Aug-21	0.02	mg/L		
21H0858_B1H1100-BLK2	Strontium dissolved	<0.00010	mg/L	F	metals	EPA 6020B	12-Aug-21	0.0001	mg/L		
21H0858_B1H1100-BLK2	Sulfur dissolved	<0.50	mg/L	F	metals	EPA 6020B	12-Aug-21	0.5	mg/L		
21H0858_B1H1100-BLK2	Tellurium dissolved	<0.000050	mg/L	F	metals	EPA 6020B	12-Aug-21	0.00005	mg/L		
21H0858_B1H1100-BLK2	Thallium dissolved	<0.0000040	mg/L	F	metals	EPA 6020B	12-Aug-21	0.000004	mg/L		
21H0858_B1H1100-BLK2	Thorium dissolved	<0.000010	mg/L	F	metals	EPA 6020B	12-Aug-21	0.00001	mg/L		
21H0858_B1H1100-BLK2	Tin dissolved	<0.000050	mg/L	F	metals	EPA 6020B	12-Aug-21	0.00005	mg/L		
21H0858_B1H1100-BLK2	Titanium dissolved	<0.00020	mg/L	F	metals	EPA 6020B	12-Aug-21	0.0002	mg/L		
21H0858_B1H1100-BLK2	Uranium dissolved	<0.0000010	mg/L	F	metals	EPA 6020B	12-Aug-21	0.000001	mg/L		
21H0858_B1H1100-BLK2	Vanadium dissolved	<0.00020	mg/L	F	metals	EPA 6020B	12-Aug-21	0.0002	mg/L		
21H0858_B1H1100-BLK2	Zinc dissolved	<0.0010	mg/L	F	metals	EPA 6020B	12-Aug-21	0.001	mg/L		
21H0858_B1H1100-BLK2	Zirconium dissolved	<0.000020	mg/L	F	metals	EPA 6020B	12-Aug-21	0.00002	mg/L		
21H0858_B1H1100-BLK2	Tungsten dissolved	<0.20	ug/L	F	metals	EPA 6020B	12-Aug-21	0.2	ug/L		
21H0858_B1H1100-BS1	Aluminum dissolved	87	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS1	Antimony dissolved	89	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS1	Arsenic dissolved	90	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS1	Barium dissolved	92	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS1	Beryllium dissolved	100	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS1	Bismuth dissolved	93	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS1	Boron dissolved	99	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS1	Cadmium dissolved	90	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS1	Calcium dissolved	95	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS1	Chromium dissolved	94	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS1	Cobalt dissolved	93	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS1	Copper dissolved	91	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS1	Iron dissolved	92	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS1	Lead dissolved	104	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS1	Lithium dissolved	99	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS1	Magnesium dissolved	105	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS1	Manganese dissolved	88	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS1	Molybdenum dissolved	88	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS1	Nickel dissolved	93	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS1	Phosphorus dissolved	92	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS1	Potassium dissolved	98	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS1	Selenium dissolved	93	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS1	Silicon dissolved	110	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS1	Silver dissolved	88	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS1	Sodium dissolved	103	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS1	Strontium dissolved	82	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS1	Sulfur dissolved	89	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS1	Tellurium dissolved	91	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS1	Thallium dissolved	90	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS1	Thorium dissolved	89	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS1	Tin dissolved	91	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS1	Titanium dissolved	120	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS1	Tungsten dissolved	91	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS1	Uranium dissolved	89	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS1	Vanadium dissolved	98	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS1	Zinc dissolved	92	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS1	Zirconium dissolved	94	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80

Sample Code	Parameter	Result	Result Units	Total or Filtered	Method Type	Method Name	Date Analyzed	EQL	EQL Units	UCL	LCL
WO-21G3912											
21H0858_B1H1100-BS2	Aluminum dissolved	89	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS2	Antimony dissolved	90	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS2	Arsenic dissolved	92	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS2	Barium dissolved	90	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS2	Beryllium dissolved	100	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS2	Bismuth dissolved	93	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS2	Boron dissolved	97	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS2	Cadmium dissolved	91	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS2	Calcium dissolved	96	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS2	Chromium dissolved	96	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS2	Cobalt dissolved	93	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS2	Copper dissolved	92	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS2	Iron dissolved	91	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS2	Lead dissolved	103	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS2	Lithium dissolved	99	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS2	Magnesium dissolved	105	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS2	Manganese dissolved	89	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS2	Molybdenum dissolved	89	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS2	Nickel dissolved	94	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS2	Phosphorus dissolved	94	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS2	Potassium dissolved	98	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS2	Selenium dissolved	87	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS2	Silicon dissolved	110	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS2	Silver dissolved	88	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS2	Sodium dissolved	103	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS2	Strontium dissolved	85	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS2	Sulfur dissolved	90	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS2	Tellurium dissolved	92	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS2	Thallium dissolved	89	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS2	Thorium dissolved	88	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS2	Tin dissolved	90	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS2	Titanium dissolved	88	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS2	Tungsten dissolved	92	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS2	Uranium dissolved	88	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS2	Vanadium dissolved	97	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS2	Zinc dissolved	88	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-BS2	Zirconium dissolved	96	%	F	metals	EPA 6020B	12-Aug-21	1	%	120	80
21H0858_B1H1100-SRM1	Aluminum dissolved	105	%	F	metals	EPA 6020B	11-Aug-21	1	%	130	70
21H0858_B1H1100-SRM1	Antimony dissolved	114	%	F	metals	EPA 6020B	11-Aug-21	1	%	130	70
21H0858_B1H1100-SRM1	Arsenic dissolved	117	%	F	metals	EPA 6020B	11-Aug-21	1	%	130	70
21H0858_B1H1100-SRM1	Barium dissolved	106	%	F	metals	EPA 6020B	11-Aug-21	1	%	130	70
21H0858_B1H1100-SRM1	Beryllium dissolved	114	%	F	metals	EPA 6020B	11-Aug-21	1	%	130	70
21H0858_B1H1100-SRM1	Boron dissolved	108	%	F	metals	EPA 6020B	11-Aug-21	1	%	130	70
21H0858_B1H1100-SRM1	Cadmium dissolved	110	%	F	metals	EPA 6020B	11-Aug-21	1	%	130	70
21H0858_B1H1100-SRM1	Calcium dissolved	124	%	F	metals	EPA 6020B	11-Aug-21	1	%	130	70
21H0858_B1H1100-SRM1	Chromium dissolved	111	%	F	metals	EPA 6020B	11-Aug-21	1	%	130	70
21H0858_B1H1100-SRM1	Cobalt dissolved	113	%	F	metals	EPA 6020B	11-Aug-21	1	%	130	70
21H0858_B1H1100-SRM1	Copper dissolved	108	%	F	metals	EPA 6020B	11-Aug-21	1	%	130	70
21H0858_B1H1100-SRM1	Iron dissolved	112	%	F	metals	EPA 6020B	11-Aug-21	1	%	130	70
21H0858_B1H1100-SRM1	Lead dissolved	122	%	F	metals	EPA 6020B	11-Aug-21	1	%	130	70
21H0858_B1H1100-SRM1	Lithium dissolved	116	%	F	metals	EPA 6020B	11-Aug-21	1	%	130	70
21H0858_B1H1100-SRM1	Magnesium dissolved	110	%	F	metals	EPA 6020B	11-Aug-21	1	%	130	70
21H0858_B1H1100-SRM1	Manganese dissolved	102	%	F	metals	EPA 6020B	11-Aug-21	1	%	130	70
21H0858_B1H1100-SRM1	Molybdenum dissolved	109	%	F	metals	EPA 6020B	11-Aug-21	1	%	130	70
21H0858_B1H1100-SRM1	Nickel dissolved	114	%	F	metals	EPA 6020B	11-Aug-21	1	%	130	70
21H0858_B1H1100-SRM1	Phosphorus dissolved	113	%	F	metals	EPA 6020B	11-Aug-21	1	%	130	70
21H0858_B1H1100-SRM1	Potassium dissolved	122	%	F	metals	EPA 6020B	11-Aug-21	1	%	130	70
21H0858_B1H1100-SRM1	Selenium dissolved	114	%	F	metals	EPA 6020B	11-Aug-21	1	%	130	70
21H0858_B1H1100-SRM1	Sodium dissolved	125	%	F	metals	EPA 6020B	11-Aug-21	1	%	130	70
21H0858_B1H1100-SRM1	Strontium dissolved	107	%	F	metals	EPA 6020B	11-Aug-21	1	%	130	70
21H0858_B1H1100-SRM1	Thallium dissolved	106	%	F	metals	EPA 6020B	11-Aug-21	1	%	130	70
21H0858_B1H1100-SRM1	Uranium dissolved	103	%	F	metals	EPA 6020B	11-Aug-21	1	%	130	70
21H0858_B1H1100-SRM1	Vanadium dissolved	109	%	F	metals	EPA 6020B	11-Aug-21	1	%	130	70
21H0858_B1H1100-SRM1	Zinc dissolved	114	%	F	metals	EPA 6020B	11-Aug-21	1	%	130	70
21H0858_B1H1100-SRM2	Aluminum dissolved	115	%	F	metals	EPA 6020B	12-Aug-21	1	%	130	70
21H0858_B1H1100-SRM2	Antimony dissolved	115	%	F	metals	EPA 6020B	12-Aug-21	1	%	130	70
21H0858_B1H1100-SRM2	Arsenic dissolved	121	%	F	metals	EPA 6020B	12-Aug-21	1	%	130	70
21H0858_B1H1100-SRM2	Barium dissolved	111	%	F	metals	EPA 6020B	12-Aug-21	1	%	130	70
21H0858_B1H1100-SRM2	Beryllium dissolved	118	%	F	metals	EPA 6020B	12-Aug-21	1	%	130	70
21H0858_B1H1100-SRM2	Boron dissolved	110	%	F	metals	EPA 6020B	12-Aug-21	1	%	130	70
21H0858_B1H1100-SRM2	Cadmium dissolved	111	%	F	metals	EPA 6020B	12-Aug-21	1	%	130	70
21H0858_B1H1100-SRM2	Calcium dissolved	125	%	F	metals	EPA 6020B	12-Aug-21	1	%	130	70
21H0858_B1H1100-SRM2	Chromium dissolved	111	%	F	metals	EPA 6020B	12-Aug-21	1	%	130	70
21H0858_B1H1100-SRM2	Cobalt dissolved	113	%	F	metals	EPA 6020B	12-Aug-21	1	%	130	70
21H0858_B1H1100-SRM2	Copper dissolved	108	%	F	metals	EPA 6020B	12-Aug-21	1	%	130	70
21H0858_B1H1100-SRM2	Iron dissolved	114	%	F	metals	EPA 6020B	12-Aug-21	1	%	130	70
21H0858_B1H1100-SRM2	Lead dissolved	127	%	F	metals	EPA 6020B	12-Aug-21	1	%	130	70
21H0858_B1H1100-SRM2	Lithium dissolved	123	%	F	metals	EPA 6020B	12-Aug-21	1	%	130	70
21H0858_B1H1100-SRM2	Magnesium dissolved	112	%	F	metals	EPA 6020B	12-Aug-21	1	%	130	70
21H0858_B1H1100-SRM2	Manganese dissolved	103	%	F	metals	EPA 6020B	12-Aug-21	1	%	130	70
21H0858_B1H1100-SRM2	Molybdenum dissolved	112	%	F	metals	EPA 6020B	12-Aug-21	1	%	130	70
21H0858_B1H1100-SRM2	Nickel dissolved	113	%	F	metals	EPA 6020B	12-Aug-21	1	%	130	70
21H0858_B1H1100-SRM2	Phosphorus dissolved	112	%	F	metals	EPA 6020B	12-Aug-21	1	%	130	70
21H0858_B1H1100-SRM2	Potassium dissolved	126	%	F	metals	EPA 6020B	12-Aug-21	1	%	130	70
21H0858_B1H1100-SRM2	Selenium dissolved	111	%	F	metals	EPA 6020B	12-Aug-21	1	%	130	70
21H0858_B1H1100-SRM2	Sodium dissolved	127	%	F	metals	EPA 6020B	12-Aug-21	1	%	130	70
21H0858_B1H1100-SRM2	Strontium dissolved	109	%	F	metals	EPA 6020B	12-Aug-21	1	%	130	70
21H0858_B1H1100-SRM2	Thallium dissolved	110	%	F	metals	EPA 6020B	12-Aug-21	1	%	130	70
21H0858_B1H1100-SRM2	Uranium dissolved	106	%	F	metals	EPA 6020B	12-Aug-21	1	%	130	70
21H0858_B1H1100-SRM2	Vanadium dissolved	109	%	F	metals	EPA 6020B	12-Aug-21	1	%	130	70
21H0858_B1H1100-SRM2	Zinc dissolved	114	%	F	metals	EPA 6020B	12-Aug-21	1	%	130	70

Sample Code	Parameter	Result	Result Units	Total or Filtered	Method Type	Method Name	Date Analyzed	EQL	EQL Units	UCL	LCL
WO-21G3912											
21H0858_B1H1129-BLK1	Phosphorus Total Dissolved	<0.0050	mg/L	F	General	Par SM 4500-P F (2	12-Aug-21	0.005	mg/L		
21H0858_B1H1129-BS1	Phosphorus Total Dissolved	102	%	F	General	Par SM 4500-P F (2	12-Aug-21	1	%	115	85
21H0858_B1H1210-BLK1	Phosphorus Total Dissolved	<0.0050	mg/L	F	General	Par SM 4500-P F (2	13-Aug-21	0.005	mg/L		
21H0858_B1H1210-BLK2	Phosphorus Total Dissolved	<0.0050	mg/L	F	General	Par SM 4500-P F (2	13-Aug-21	0.005	mg/L		
21H0858_B1H1210-BS1	Phosphorus Total Dissolved	108	%	F	General	Par SM 4500-P F (2	13-Aug-21	1	%	115	85
21H0858_B1H1210-BS2	Phosphorus Total Dissolved	108	%	F	General	Par SM 4500-P F (2	13-Aug-21	1	%	115	85
21H0858_B1H1225-BLK1	Mercury dissolved	<0.0050	ug/L	F	metals	EPA 245.7*	12-Aug-21	0.005	ug/L		
21H0858_B1H1225-SRM1	Mercury dissolved	101	%	F	metals	EPA 245.7*	12-Aug-21	1	%	130	70
WO-21H1142											
21H1142_B1H1276-BLK1	Aluminum dissolved	<0.0010	mg/L	F	metals	EPA 6020B	13-Aug-21	0.001	mg/L		
21H1142_B1H1276-BLK1	Antimony dissolved	<0.000050	mg/L	F	metals	EPA 6020B	13-Aug-21	0.00005	mg/L		
21H1142_B1H1276-BLK1	Arsenic dissolved	<0.000050	mg/L	F	metals	EPA 6020B	13-Aug-21	0.00005	mg/L		
21H1142_B1H1276-BLK1	Barium dissolved	<0.00010	mg/L	F	metals	EPA 6020B	13-Aug-21	0.0001	mg/L		
21H1142_B1H1276-BLK1	Beryllium dissolved	<0.000010	mg/L	F	metals	EPA 6020B	13-Aug-21	0.00001	mg/L		
21H1142_B1H1276-BLK1	Bismuth dissolved	<0.000010	mg/L	F	metals	EPA 6020B	13-Aug-21	0.00001	mg/L		
21H1142_B1H1276-BLK1	Boron dissolved	<0.0010	mg/L	F	metals	EPA 6020B	13-Aug-21	0.001	mg/L		
21H1142_B1H1276-BLK1	Cadmium dissolved	<0.0000020	mg/L	F	metals	EPA 6020B	13-Aug-21	0.000002	mg/L		
21H1142_B1H1276-BLK1	Calcium dissolved	<0.040	mg/L	F	metals	EPA 6020B	13-Aug-21	0.04	mg/L		
21H1142_B1H1276-BLK1	Chromium dissolved	<0.00010	mg/L	F	metals	EPA 6020B	13-Aug-21	0.0001	mg/L		
21H1142_B1H1276-BLK1	Cobalt dissolved	<0.0000050	mg/L	F	metals	EPA 6020B	13-Aug-21	0.000005	mg/L		
21H1142_B1H1276-BLK1	Copper dissolved	<0.00010	mg/L	F	metals	EPA 6020B	13-Aug-21	0.0001	mg/L		
21H1142_B1H1276-BLK1	Iron dissolved	<0.0020	mg/L	F	metals	EPA 6020B	13-Aug-21	0.002	mg/L		
21H1142_B1H1276-BLK1	Lead dissolved	<0.000050	mg/L	F	metals	EPA 6020B	13-Aug-21	0.00005	mg/L		
21H1142_B1H1276-BLK1	Lithium dissolved	<0.000050	mg/L	F	metals	EPA 6020B	13-Aug-21	0.00005	mg/L		
21H1142_B1H1276-BLK1	Magnesium dissolved	<0.0050	mg/L	F	metals	EPA 6020B	13-Aug-21	0.005	mg/L		
21H1142_B1H1276-BLK1	Manganese dissolved	<0.000050	mg/L	F	metals	EPA 6020B	13-Aug-21	0.00005	mg/L		
21H1142_B1H1276-BLK1	Molybdenum dissolved	<0.000010	mg/L	F	metals	EPA 6020B	13-Aug-21	0.00001	mg/L		
21H1142_B1H1276-BLK1	Nickel dissolved	<0.000040	mg/L	F	metals	EPA 6020B	13-Aug-21	0.00004	mg/L		
21H1142_B1H1276-BLK1	Phosphorus dissolved	<0.010	mg/L	F	metals	EPA 6020B	13-Aug-21	0.01	mg/L		
21H1142_B1H1276-BLK1	Potassium dissolved	<0.010	mg/L	F	metals	EPA 6020B	13-Aug-21	0.01	mg/L		
21H1142_B1H1276-BLK1	Selenium dissolved	<0.00010	mg/L	F	metals	EPA 6020B	13-Aug-21	0.0001	mg/L		
21H1142_B1H1276-BLK1	Silicon dissolved	<0.10	mg/L	F	metals	EPA 6020B	13-Aug-21	0.1	mg/L		
21H1142_B1H1276-BLK1	Silver dissolved	<0.000010	mg/L	F	metals	EPA 6020B	13-Aug-21	0.00001	mg/L		
21H1142_B1H1276-BLK1	Sodium dissolved	<0.020	mg/L	F	metals	EPA 6020B	13-Aug-21	0.02	mg/L		
21H1142_B1H1276-BLK1	Strontium dissolved	<0.00010	mg/L	F	metals	EPA 6020B	13-Aug-21	0.0001	mg/L		
21H1142_B1H1276-BLK1	Sulfur dissolved	<0.50	mg/L	F	metals	EPA 6020B	13-Aug-21	0.5	mg/L		
21H1142_B1H1276-BLK1	Tellurium dissolved	<0.000050	mg/L	F	metals	EPA 6020B	13-Aug-21	0.00005	mg/L		
21H1142_B1H1276-BLK1	Thallium dissolved	<0.0000040	mg/L	F	metals	EPA 6020B	13-Aug-21	0.000004	mg/L		
21H1142_B1H1276-BLK1	Thorium dissolved	<0.000010	mg/L	F	metals	EPA 6020B	13-Aug-21	0.00001	mg/L		
21H1142_B1H1276-BLK1	Tin dissolved	<0.000050	mg/L	F	metals	EPA 6020B	13-Aug-21	0.00005	mg/L		
21H1142_B1H1276-BLK1	Titanium dissolved	<0.00020	mg/L	F	metals	EPA 6020B	13-Aug-21	0.0002	mg/L		
21H1142_B1H1276-BLK1	Uranium dissolved	<0.0000010	mg/L	F	metals	EPA 6020B	13-Aug-21	0.000001	mg/L		
21H1142_B1H1276-BLK1	Vanadium dissolved	<0.00020	mg/L	F	metals	EPA 6020B	13-Aug-21	0.0002	mg/L		
21H1142_B1H1276-BLK1	Zinc dissolved	<0.0010	mg/L	F	metals	EPA 6020B	13-Aug-21	0.001	mg/L		
21H1142_B1H1276-BLK1	Zirconium dissolved	<0.000020	mg/L	F	metals	EPA 6020B	13-Aug-21	0.00002	mg/L		
21H1142_B1H1276-BLK1	Tungsten dissolved	<0.20	ug/L	F	metals	EPA 6020B	13-Aug-21	0.2	ug/L		
21H1142_B1H1276-BLK2	Aluminum dissolved	<0.0010	mg/L	F	metals	EPA 6020B	13-Aug-21	0.001	mg/L		
21H1142_B1H1276-BLK2	Antimony dissolved	<0.000050	mg/L	F	metals	EPA 6020B	13-Aug-21	0.00005	mg/L		
21H1142_B1H1276-BLK2	Arsenic dissolved	<0.000050	mg/L	F	metals	EPA 6020B	13-Aug-21	0.00005	mg/L		
21H1142_B1H1276-BLK2	Barium dissolved	<0.00010	mg/L	F	metals	EPA 6020B	13-Aug-21	0.0001	mg/L		
21H1142_B1H1276-BLK2	Beryllium dissolved	<0.000010	mg/L	F	metals	EPA 6020B	13-Aug-21	0.00001	mg/L		
21H1142_B1H1276-BLK2	Bismuth dissolved	<0.000010	mg/L	F	metals	EPA 6020B	13-Aug-21	0.00001	mg/L		
21H1142_B1H1276-BLK2	Boron dissolved	<0.0010	mg/L	F	metals	EPA 6020B	13-Aug-21	0.001	mg/L		
21H1142_B1H1276-BLK2	Cadmium dissolved	<0.0000020	mg/L	F	metals	EPA 6020B	13-Aug-21	0.000002	mg/L		
21H1142_B1H1276-BLK2	Calcium dissolved	<0.040	mg/L	F	metals	EPA 6020B	13-Aug-21	0.04	mg/L		
21H1142_B1H1276-BLK2	Chromium dissolved	<0.00010	mg/L	F	metals	EPA 6020B	13-Aug-21	0.0001	mg/L		
21H1142_B1H1276-BLK2	Cobalt dissolved	<0.0000050	mg/L	F	metals	EPA 6020B	13-Aug-21	0.000005	mg/L		
21H1142_B1H1276-BLK2	Copper dissolved	<0.00010	mg/L	F	metals	EPA 6020B	13-Aug-21	0.0001	mg/L		
21H1142_B1H1276-BLK2	Iron dissolved	<0.0020	mg/L	F	metals	EPA 6020B	13-Aug-21	0.002	mg/L		
21H1142_B1H1276-BLK2	Lead dissolved	<0.000050	mg/L	F	metals	EPA 6020B	13-Aug-21	0.00005	mg/L		
21H1142_B1H1276-BLK2	Lithium dissolved	<0.000050	mg/L	F	metals	EPA 6020B	13-Aug-21	0.00005	mg/L		
21H1142_B1H1276-BLK2	Magnesium dissolved	<0.0050	mg/L	F	metals	EPA 6020B	13-Aug-21	0.005	mg/L		
21H1142_B1H1276-BLK2	Manganese dissolved	<0.000050	mg/L	F	metals	EPA 6020B	13-Aug-21	0.00005	mg/L		
21H1142_B1H1276-BLK2	Molybdenum dissolved	<0.000010	mg/L	F	metals	EPA 6020B	13-Aug-21	0.00001	mg/L		
21H1142_B1H1276-BLK2	Nickel dissolved	<0.000040	mg/L	F	metals	EPA 6020B	13-Aug-21	0.00004	mg/L		
21H1142_B1H1276-BLK2	Phosphorus dissolved	<0.010	mg/L	F	metals	EPA 6020B	13-Aug-21	0.01	mg/L		
21H1142_B1H1276-BLK2	Potassium dissolved	<0.010	mg/L	F	metals	EPA 6020B	13-Aug-21	0.01	mg/L		
21H1142_B1H1276-BLK2	Selenium dissolved	<0.00010	mg/L	F	metals	EPA 6020B	13-Aug-21	0.0001	mg/L		
21H1142_B1H1276-BLK2	Silicon dissolved	<0.10	mg/L	F	metals	EPA 6020B	13-Aug-21	0.1	mg/L		
21H1142_B1H1276-BLK2	Silver dissolved	<0.000010	mg/L	F	metals	EPA 6020B	13-Aug-21	0.00001	mg/L		
21H1142_B1H1276-BLK2	Sodium dissolved	<0.020	mg/L	F	metals	EPA 6020B	13-Aug-21	0.02	mg/L		
21H1142_B1H1276-BLK2	Strontium dissolved	<0.00010	mg/L	F	metals	EPA 6020B	13-Aug-21	0.0001	mg/L		
21H1142_B1H1276-BLK2	Sulfur dissolved	<0.50	mg/L	F	metals	EPA 6020B	13-Aug-21	0.5	mg/L		
21H1142_B1H1276-BLK2	Tellurium dissolved	<0.000050	mg/L	F	metals	EPA 6020B	13-Aug-21	0.00005	mg/L		
21H1142_B1H1276-BLK2	Thallium dissolved	<0.0000040	mg/L	F	metals	EPA 6020B	13-Aug-21	0.000004	mg/L		
21H1142_B1H1276-BLK2	Thorium dissolved	<0.000010	mg/L	F	metals	EPA 6020B	13-Aug-21	0.00001	mg/L		
21H1142_B1H1276-BLK2	Tin dissolved	<0.000050	mg/L	F	metals	EPA 6020B	13-Aug-21	0.00005	mg/L		
21H1142_B1H1276-BLK2	Titanium dissolved	<0.00020	mg/L	F	metals	EPA 6020B	13-Aug-21	0.0002	mg/L		
21H1142_B1H1276-BLK2	Uranium dissolved	<0.0000010	mg/L	F	metals	EPA 6020B	13-Aug-21	0.000001	mg/L		
21H1142_B1H1276-BLK2	Vanadium dissolved	<0.00020	mg/L	F	metals	EPA 6020B	13-Aug-21	0.0002	mg/L		
21H1142_B1H1276-BLK2	Zinc dissolved	<0.0010	mg/L	F	metals	EPA 6020B	13-Aug-21	0.001	mg/L		
21H1142_B1H1276-BLK2	Zirconium dissolved	<0.000020	mg/L	F	metals	EPA 6020B	13-Aug-21	0.00002	mg/L		
21H1142_B1H1276-BLK2	Tungsten dissolved	<0.20	ug/L	F	metals	EPA 6020B	13-Aug-21	0.2	ug/L		
21H1142_B1H1276-BS1	Aluminum dissolved	114	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS1	Antimony dissolved	92	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS1	Arsenic dissolved	95	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS1	Barium dissolved	92	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS1	Beryllium dissolved	102	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS1	Bismuth dissolved	95	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS1	Boron dissolved	106	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS1	Cadmium dissolved	94	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80

Sample Code	Parameter	Result	Result Units	Total or Filtered	Method Type	Method Name	Date Analyzed	EQL	EQL Units	UCL	LCL
WO-21G3912											
21H1142_B1H1276-BS1	Calcium dissolved	98	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS1	Chromium dissolved	98	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS1	Cobalt dissolved	96	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS1	Copper dissolved	97	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS1	Iron dissolved	98	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS1	Lead dissolved	106	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS1	Lithium dissolved	103	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS1	Magnesium dissolved	110	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS1	Manganese dissolved	95	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS1	Molybdenum dissolved	91	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS1	Nickel dissolved	96	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS1	Phosphorus dissolved	104	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS1	Potassium dissolved	105	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS1	Selenium dissolved	97	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS1	Silicon dissolved	119	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS1	Silver dissolved	88	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS1	Sodium dissolved	108	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS1	Strontium dissolved	97	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS1	Sulfur dissolved	106	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS1	Tellurium dissolved	101	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS1	Thallium dissolved	93	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS1	Thorium dissolved	89	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS1	Tin dissolved	95	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS1	Titanium dissolved	109	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS1	Tungsten dissolved	94	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS1	Uranium dissolved	92	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS1	Vanadium dissolved	98	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS1	Zinc dissolved	101	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS1	Zirconium dissolved	97	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS2	Aluminum dissolved	118	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS2	Antimony dissolved	94	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS2	Arsenic dissolved	96	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS2	Barium dissolved	93	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS2	Beryllium dissolved	99	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS2	Bismuth dissolved	96	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS2	Boron dissolved	115	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS2	Cadmium dissolved	94	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS2	Calcium dissolved	99	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS2	Chromium dissolved	99	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS2	Cobalt dissolved	96	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS2	Copper dissolved	96	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS2	Iron dissolved	99	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS2	Lead dissolved	108	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS2	Lithium dissolved	102	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS2	Magnesium dissolved	113	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS2	Manganese dissolved	95	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS2	Molybdenum dissolved	91	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS2	Nickel dissolved	97	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS2	Phosphorus dissolved	103	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS2	Potassium dissolved	104	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS2	Selenium dissolved	96	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS2	Silicon dissolved	113	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS2	Silver dissolved	89	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS2	Sodium dissolved	110	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS2	Strontium dissolved	89	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS2	Sulfur dissolved	98	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS2	Tellurium dissolved	97	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS2	Thallium dissolved	94	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS2	Thorium dissolved	91	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS2	Tin dissolved	96	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS2	Titanium dissolved	105	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS2	Tungsten dissolved	95	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS2	Uranium dissolved	92	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS2	Vanadium dissolved	100	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS2	Zinc dissolved	97	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-BS2	Zirconium dissolved	100	%	F	metals	EPA 6020B	13-Aug-21	1	%	120	80
21H1142_B1H1276-SRM1	Aluminum dissolved	105	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM1	Antimony dissolved	102	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM1	Arsenic dissolved	106	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM1	Barium dissolved	99	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM1	Beryllium dissolved	105	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM1	Boron dissolved	100	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM1	Cadmium dissolved	98	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM1	Calcium dissolved	105	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM1	Chromium dissolved	100	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM1	Cobalt dissolved	102	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM1	Copper dissolved	100	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM1	Iron dissolved	105	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM1	Lead dissolved	110	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM1	Lithium dissolved	107	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM1	Magnesium dissolved	118	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM1	Manganese dissolved	96	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM1	Molybdenum dissolved	99	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM1	Nickel dissolved	102	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM1	Phosphorus dissolved	117	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM1	Potassium dissolved	114	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM1	Selenium dissolved	109	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM1	Sodium dissolved	117	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM1	Strontium dissolved	91	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM1	Thallium dissolved	97	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM1	Uranium dissolved	93	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70

Sample Code	Parameter	Result	Result Units	Total or Filtered	Method Type	Method Name	Date Analyzed	EQL	EQL Units	UCL	LCL
WO-21G3912											
21H1142_B1H1276-SRM1	Vanadium dissolved	98	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM1	Zinc dissolved	104	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM2	Aluminum dissolved	107	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM2	Antimony dissolved	100	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM2	Arsenic dissolved	105	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM2	Barium dissolved	98	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM2	Beryllium dissolved	106	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM2	Boron dissolved	103	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM2	Cadmium dissolved	97	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM2	Calcium dissolved	104	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM2	Chromium dissolved	100	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM2	Cobalt dissolved	102	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM2	Copper dissolved	99	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM2	Iron dissolved	103	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM2	Lead dissolved	112	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM2	Lithium dissolved	107	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM2	Magnesium dissolved	116	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM2	Manganese dissolved	96	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM2	Molybdenum dissolved	98	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM2	Nickel dissolved	102	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM2	Phosphorus dissolved	105	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM2	Potassium dissolved	112	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM2	Selenium dissolved	103	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM2	Sodium dissolved	116	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM2	Strontium dissolved	90	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM2	Thallium dissolved	98	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM2	Uranium dissolved	94	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM2	Vanadium dissolved	98	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1276-SRM2	Zinc dissolved	104	%	F	metals	EPA 6020B	13-Aug-21	1	%	130	70
21H1142_B1H1459-BLK1	Phosphorus Total Dissolved	<0.0050	mg/L	F	General	Par SM 4500-P F (2 16-Aug-21	0.005		mg/L		
21H1142_B1H1459-BLK2	Phosphorus Total Dissolved	<0.0050	mg/L	F	General	Par SM 4500-P F (2 16-Aug-21	0.005		mg/L		
21H1142_B1H1459-BS1	Phosphorus Total Dissolved	106	%	F	General	Par SM 4500-P F (2 16-Aug-21	1	%		115	85
21H1142_B1H1459-BS2	Phosphorus Total Dissolved	107	%	F	General	Par SM 4500-P F (2 16-Aug-21	1	%		115	85
21H1142_B1H1597-BLK1	Mercury dissolved	<0.0050	ug/L	F	metals	EPA 245.7*	17-Aug-21	0.005		ug/L	
21H1142_B1H1597-BLK2	Mercury dissolved	<0.0050	ug/L	F	metals	EPA 245.7*	17-Aug-21	0.005		ug/L	
21H1142_B1H1597-BLK3	Mercury dissolved	<0.0050	ug/L	F	Mercury	EPA 245.7*	17-Aug-21	0.005		ug/L	
21H1142_B1H1597-MS1	Mercury dissolved	0.199	ug/L	F	metals	EPA 245.7*	17-Aug-21	0.005		ug/L	130 70
21H1142_B1H1597-SRM1	Mercury dissolved	85	%	F	metals	EPA 245.7*	17-Aug-21	1	%	130	70
21H1142_B1H1597-SRM2	Mercury dissolved	84	%	F	metals	EPA 245.7*	17-Aug-21	1	%	130	70
21H1142_B1H1597-SRM3	Mercury dissolved	84	%	F	metals	EPA 245.7*	17-Aug-21	1	%	130	70
WO-21H1362											
21H1362_B1H1302-BLK1	Mercury dissolved	<0.0050	ug/L	F	metals	EPA 245.7*	13-Aug-21	0.005		ug/L	
21H1362_B1H1302-BLK2	Mercury dissolved	<0.0050	ug/L	F	metals	EPA 245.7*	13-Aug-21	0.005		ug/L	
21H1362_B1H1302-MS2	Mercury dissolved	0.255	ug/L	F	metals	EPA 245.7*	13-Aug-21	0.005		ug/L	130 70
21H1362_B1H1302-SRM1	Mercury dissolved	104	%	F	metals	EPA 245.7*	13-Aug-21	1	%	130	70
21H1362_B1H1302-SRM2	Mercury dissolved	105	%	F	metals	EPA 245.7*	13-Aug-21	1	%	130	70
21H1362_B1H1510-BLK1	Aluminum dissolved	<0.0010	mg/L	F	metals	EPA 6020B	16-Aug-21	0.001		mg/L	
21H1362_B1H1510-BLK1	Antimony dissolved	<0.000050	mg/L	F	metals	EPA 6020B	16-Aug-21	0.00005		mg/L	
21H1362_B1H1510-BLK1	Arsenic dissolved	<0.000050	mg/L	F	metals	EPA 6020B	16-Aug-21	0.00005		mg/L	
21H1362_B1H1510-BLK1	Barium dissolved	<0.00010	mg/L	F	metals	EPA 6020B	16-Aug-21	0.0001		mg/L	
21H1362_B1H1510-BLK1	Beryllium dissolved	<0.000010	mg/L	F	metals	EPA 6020B	16-Aug-21	0.00001		mg/L	
21H1362_B1H1510-BLK1	Bismuth dissolved	<0.000010	mg/L	F	metals	EPA 6020B	16-Aug-21	0.00001		mg/L	
21H1362_B1H1510-BLK1	Boron dissolved	<0.0020	mg/L	F	metals	EPA 6020B	16-Aug-21	0.002		mg/L	
21H1362_B1H1510-BLK1	Cadmium dissolved	<0.0000020	mg/L	F	metals	EPA 6020B	16-Aug-21	0.000002		mg/L	
21H1362_B1H1510-BLK1	Calcium dissolved	<0.040	mg/L	F	metals	EPA 6020B	16-Aug-21	0.04		mg/L	
21H1362_B1H1510-BLK1	Chromium dissolved	<0.00010	mg/L	F	metals	EPA 6020B	16-Aug-21	0.0001		mg/L	
21H1362_B1H1510-BLK1	Cobalt dissolved	<0.0000050	mg/L	F	metals	EPA 6020B	16-Aug-21	0.000005		mg/L	
21H1362_B1H1510-BLK1	Copper dissolved	<0.00010	mg/L	F	metals	EPA 6020B	16-Aug-21	0.0001		mg/L	
21H1362_B1H1510-BLK1	Iron dissolved	<0.0020	mg/L	F	metals	EPA 6020B	16-Aug-21	0.002		mg/L	
21H1362_B1H1510-BLK1	Lead dissolved	<0.000050	mg/L	F	metals	EPA 6020B	16-Aug-21	0.00005		mg/L	
21H1362_B1H1510-BLK1	Lithium dissolved	<0.000050	mg/L	F	metals	EPA 6020B	16-Aug-21	0.00005		mg/L	
21H1362_B1H1510-BLK1	Magnesium dissolved	<0.0050	mg/L	F	metals	EPA 6020B	16-Aug-21	0.005		mg/L	
21H1362_B1H1510-BLK1	Manganese dissolved	<0.000050	mg/L	F	metals	EPA 6020B	16-Aug-21	0.00005		mg/L	
21H1362_B1H1510-BLK1	Mercury dissolved	<0.000020	mg/L	F	metals	EPA 6020B	16-Aug-21	0.00002		mg/L	
21H1362_B1H1510-BLK1	Molybdenum dissolved	<0.000010	mg/L	F	metals	EPA 6020B	16-Aug-21	0.00001		mg/L	
21H1362_B1H1510-BLK1	Nickel dissolved	<0.000040	mg/L	F	metals	EPA 6020B	16-Aug-21	0.00004		mg/L	
21H1362_B1H1510-BLK1	Phosphorus dissolved	<0.010	mg/L	F	metals	EPA 6020B	16-Aug-21	0.01		mg/L	
21H1362_B1H1510-BLK1	Potassium dissolved	<0.010	mg/L	F	metals	EPA 6020B	16-Aug-21	0.01		mg/L	
21H1362_B1H1510-BLK1	Selenium dissolved	<0.00010	mg/L	F	metals	EPA 6020B	16-Aug-21	0.0001		mg/L	
21H1362_B1H1510-BLK1	Silicon dissolved	<0.10	mg/L	F	metals	EPA 6020B	16-Aug-21	0.1		mg/L	
21H1362_B1H1510-BLK1	Silver dissolved	<0.000010	mg/L	F	metals	EPA 6020B	16-Aug-21	0.00001		mg/L	
21H1362_B1H1510-BLK1	Sodium dissolved	<0.020	mg/L	F	metals	EPA 6020B	16-Aug-21	0.02		mg/L	
21H1362_B1H1510-BLK1	Strontium dissolved	<0.00010	mg/L	F	metals	EPA 6020B	16-Aug-21	0.0001		mg/L	
21H1362_B1H1510-BLK1	Sulfur dissolved	<1.00	mg/L	F	metals	EPA 6020B	16-Aug-21	1		mg/L	
21H1362_B1H1510-BLK1	Tellurium dissolved	<0.000050	mg/L	F	metals	EPA 6020B	16-Aug-21	0.00005		mg/L	
21H1362_B1H1510-BLK1	Thallium dissolved	<0.0000040	mg/L	F	metals	EPA 6020B	16-Aug-21	0.000004		mg/L	
21H1362_B1H1510-BLK1	Thorium dissolved	<0.000010	mg/L	F	metals	EPA 6020B	16-Aug-21	0.00001		mg/L	
21H1362_B1H1510-BLK1	Tin dissolved	<0.000050	mg/L	F	metals	EPA 6020B	16-Aug-21	0.00005		mg/L	
21H1362_B1H1510-BLK1	Titanium dissolved	<0.00020	mg/L	F	metals	EPA 6020B	16-Aug-21	0.0002		mg/L	
21H1362_B1H1510-BLK1	Uranium dissolved	<0.0000010	mg/L	F	metals	EPA 6020B	16-Aug-21	0.000001		mg/L	
21H1362_B1H1510-BLK1	Vanadium dissolved	<0.00020	mg/L	F	metals	EPA 6020B	16-Aug-21	0.0002		mg/L	
21H1362_B1H1510-BLK1	Zinc dissolved	<0.0010	mg/L	F	metals	EPA 6020B	16-Aug-21	0.001		mg/L	
21H1362_B1H1510-BLK1	Zirconium dissolved	<0.000020	mg/L	F	metals	EPA 6020B	16-Aug-21	0.00002		mg/L	
21H1362_B1H1510-BLK1	Tungsten dissolved	<0.20	ug/L	F	metals	EPA 6020B	16-Aug-21	0.2		ug/L	
21H1362_B1H1510-BLK2	Aluminum dissolved	<0.0010	mg/L	F	metals	EPA 6020B	16-Aug-21	0.001		mg/L	
21H1362_B1H1510-BLK2	Antimony dissolved	<0.000050	mg/L	F	metals	EPA 6020B	16-Aug-21	0.00005		mg/L	
21H1362_B1H1510-BLK2	Arsenic dissolved	<0.000050	mg/L	F	metals	EPA 6020B	16-Aug-21	0.00005		mg/L	
21H1362_B1H1510-BLK2	Barium dissolved	<0.00010	mg/L	F	metals	EPA 6020B	16-Aug-21	0.0001		mg/L	
21H1362_B1H1510-BLK2	Beryllium dissolved	<0.000010	mg/L	F	metals	EPA 6020B	16-Aug-21	0.00001		mg/L	
21H1362_B1H1510-BLK2	Bismuth dissolved	<0.000010	mg/L	F	metals	EPA 6020B	16-Aug-21	0.00001		mg/L	
21H1362_B1H1510-BLK2	Boron dissolved	<0.0020	mg/L	F	metals	EPA 6020B	16-Aug-21	0.002		mg/L	

Sample Code	Parameter	Result	Result Units	Total or Filtered	Method Type	Method Name	Date Analyzed	EQL	EQL Units	UCL	LCL
WO-21G3912											
21H1362_B1H1510-BLK2	Cadmium dissolved	<0.000020	mg/L	F	metals	EPA 6020B	16-Aug-21	0.000002	mg/L		
21H1362_B1H1510-BLK2	Calcium dissolved	<0.040	mg/L	F	metals	EPA 6020B	16-Aug-21	0.04	mg/L		
21H1362_B1H1510-BLK2	Chromium dissolved	<0.00010	mg/L	F	metals	EPA 6020B	16-Aug-21	0.0001	mg/L		
21H1362_B1H1510-BLK2	Cobalt dissolved	<0.0000050	mg/L	F	metals	EPA 6020B	16-Aug-21	0.000005	mg/L		
21H1362_B1H1510-BLK2	Copper dissolved	<0.00010	mg/L	F	metals	EPA 6020B	16-Aug-21	0.0001	mg/L		
21H1362_B1H1510-BLK2	Iron dissolved	<0.0020	mg/L	F	metals	EPA 6020B	16-Aug-21	0.002	mg/L		
21H1362_B1H1510-BLK2	Lead dissolved	<0.000050	mg/L	F	metals	EPA 6020B	16-Aug-21	0.00005	mg/L		
21H1362_B1H1510-BLK2	Lithium dissolved	<0.000050	mg/L	F	metals	EPA 6020B	16-Aug-21	0.00005	mg/L		
21H1362_B1H1510-BLK2	Magnesium dissolved	<0.0050	mg/L	F	metals	EPA 6020B	16-Aug-21	0.005	mg/L		
21H1362_B1H1510-BLK2	Manganese dissolved	<0.000050	mg/L	F	metals	EPA 6020B	16-Aug-21	0.00005	mg/L		
21H1362_B1H1510-BLK2	Mercury dissolved	<0.000020	mg/L	F	metals	EPA 6020B	16-Aug-21	0.00002	mg/L		
21H1362_B1H1510-BLK2	Molybdenum dissolved	<0.000010	mg/L	F	metals	EPA 6020B	16-Aug-21	0.00001	mg/L		
21H1362_B1H1510-BLK2	Nickel dissolved	<0.000040	mg/L	F	metals	EPA 6020B	16-Aug-21	0.00004	mg/L		
21H1362_B1H1510-BLK2	Phosphorus dissolved	<0.010	mg/L	F	metals	EPA 6020B	16-Aug-21	0.01	mg/L		
21H1362_B1H1510-BLK2	Potassium dissolved	<0.010	mg/L	F	metals	EPA 6020B	16-Aug-21	0.01	mg/L		
21H1362_B1H1510-BLK2	Selenium dissolved	<0.00010	mg/L	F	metals	EPA 6020B	16-Aug-21	0.0001	mg/L		
21H1362_B1H1510-BLK2	Silicon dissolved	<0.10	mg/L	F	metals	EPA 6020B	16-Aug-21	0.1	mg/L		
21H1362_B1H1510-BLK2	Silver dissolved	<0.000010	mg/L	F	metals	EPA 6020B	16-Aug-21	0.00001	mg/L		
21H1362_B1H1510-BLK2	Sodium dissolved	<0.020	mg/L	F	metals	EPA 6020B	16-Aug-21	0.02	mg/L		
21H1362_B1H1510-BLK2	Strontium dissolved	<0.00010	mg/L	F	metals	EPA 6020B	16-Aug-21	0.0001	mg/L		
21H1362_B1H1510-BLK2	Sulfur dissolved	<1.00	mg/L	F	metals	EPA 6020B	16-Aug-21	1	mg/L		
21H1362_B1H1510-BLK2	Tellurium dissolved	<0.000050	mg/L	F	metals	EPA 6020B	16-Aug-21	0.00005	mg/L		
21H1362_B1H1510-BLK2	Thallium dissolved	<0.0000040	mg/L	F	metals	EPA 6020B	16-Aug-21	0.000004	mg/L		
21H1362_B1H1510-BLK2	Thorium dissolved	<0.000010	mg/L	F	metals	EPA 6020B	16-Aug-21	0.00001	mg/L		
21H1362_B1H1510-BLK2	Tin dissolved	<0.000050	mg/L	F	metals	EPA 6020B	16-Aug-21	0.00005	mg/L		
21H1362_B1H1510-BLK2	Titanium dissolved	<0.00020	mg/L	F	metals	EPA 6020B	16-Aug-21	0.0002	mg/L		
21H1362_B1H1510-BLK2	Uranium dissolved	<0.0000010	mg/L	F	metals	EPA 6020B	16-Aug-21	0.000001	mg/L		
21H1362_B1H1510-BLK2	Vanadium dissolved	<0.00020	mg/L	F	metals	EPA 6020B	16-Aug-21	0.0002	mg/L		
21H1362_B1H1510-BLK2	Zinc dissolved	<0.0010	mg/L	F	metals	EPA 6020B	16-Aug-21	0.001	mg/L		
21H1362_B1H1510-BLK2	Zirconium dissolved	<0.000020	mg/L	F	metals	EPA 6020B	16-Aug-21	0.00002	mg/L		
21H1362_B1H1510-BLK2	Tungsten dissolved	<0.20	ug/L	F	metals	EPA 6020B	16-Aug-21	0.2	ug/L		
21H1362_B1H1510-BLK3	Aluminum dissolved	<0.0010	mg/L	F	metals	EPA 6020B	16-Aug-21	0.001	mg/L		
21H1362_B1H1510-BLK3	Antimony dissolved	<0.000050	mg/L	F	metals	EPA 6020B	16-Aug-21	0.00005	mg/L		
21H1362_B1H1510-BLK3	Arsenic dissolved	0.000081	mg/L	F	metals	EPA 6020B	16-Aug-21	0.00005	mg/L		
21H1362_B1H1510-BLK3	Barium dissolved	0.00019	mg/L	F	metals	EPA 6020B	16-Aug-21	0.0001	mg/L		
21H1362_B1H1510-BLK3	Beryllium dissolved	<0.000010	mg/L	F	metals	EPA 6020B	16-Aug-21	0.00001	mg/L		
21H1362_B1H1510-BLK3	Bismuth dissolved	<0.000010	mg/L	F	metals	EPA 6020B	16-Aug-21	0.00001	mg/L		
21H1362_B1H1510-BLK3	Boron dissolved	<0.0020	mg/L	F	metals	EPA 6020B	16-Aug-21	0.002	mg/L		
21H1362_B1H1510-BLK3	Cadmium dissolved	<0.000020	mg/L	F	metals	EPA 6020B	16-Aug-21	0.000002	mg/L		
21H1362_B1H1510-BLK3	Calcium dissolved	<0.040	mg/L	F	metals	EPA 6020B	16-Aug-21	0.04	mg/L		
21H1362_B1H1510-BLK3	Chromium dissolved	<0.00010	mg/L	F	metals	EPA 6020B	16-Aug-21	0.0001	mg/L		
21H1362_B1H1510-BLK3	Cobalt dissolved	<0.0000050	mg/L	F	metals	EPA 6020B	16-Aug-21	0.000005	mg/L		
21H1362_B1H1510-BLK3	Copper dissolved	0.00065	mg/L	F	metals	EPA 6020B	16-Aug-21	0.0001	mg/L		
21H1362_B1H1510-BLK3	Iron dissolved	<0.0020	mg/L	F	metals	EPA 6020B	16-Aug-21	0.002	mg/L		
21H1362_B1H1510-BLK3	Lead dissolved	<0.000050	mg/L	F	metals	EPA 6020B	16-Aug-21	0.00005	mg/L		
21H1362_B1H1510-BLK3	Lithium dissolved	<0.000050	mg/L	F	metals	EPA 6020B	16-Aug-21	0.00005	mg/L		
21H1362_B1H1510-BLK3	Magnesium dissolved	<0.0050	mg/L	F	metals	EPA 6020B	16-Aug-21	0.005	mg/L		
21H1362_B1H1510-BLK3	Manganese dissolved	<0.000050	mg/L	F	metals	EPA 6020B	16-Aug-21	0.00005	mg/L		
21H1362_B1H1510-BLK3	Mercury dissolved	<0.000020	mg/L	F	metals	EPA 6020B	16-Aug-21	0.00002	mg/L		
21H1362_B1H1510-BLK3	Molybdenum dissolved	<0.000010	mg/L	F	metals	EPA 6020B	16-Aug-21	0.00001	mg/L		
21H1362_B1H1510-BLK3	Nickel dissolved	0.000367	mg/L	F	metals	EPA 6020B	16-Aug-21	0.00004	mg/L		
21H1362_B1H1510-BLK3	Phosphorus dissolved	<0.010	mg/L	F	metals	EPA 6020B	16-Aug-21	0.01	mg/L		
21H1362_B1H1510-BLK3	Potassium dissolved	<0.010	mg/L	F	metals	EPA 6020B	16-Aug-21	0.01	mg/L		
21H1362_B1H1510-BLK3	Selenium dissolved	<0.00010	mg/L	F	metals	EPA 6020B	16-Aug-21	0.0001	mg/L		
21H1362_B1H1510-BLK3	Silver dissolved	<0.000010	mg/L	F	metals	EPA 6020B	16-Aug-21	0.00001	mg/L		
21H1362_B1H1510-BLK3	Sodium dissolved	<0.020	mg/L	F	metals	EPA 6020B	16-Aug-21	0.02	mg/L		
21H1362_B1H1510-BLK3	Strontium dissolved	0.00032	mg/L	F	metals	EPA 6020B	16-Aug-21	0.0001	mg/L		
21H1362_B1H1510-BLK3	Sulfur dissolved	<1.00	mg/L	F	metals	EPA 6020B	16-Aug-21	1	mg/L		
21H1362_B1H1510-BLK3	Tellurium dissolved	<0.000050	mg/L	F	metals	EPA 6020B	16-Aug-21	0.00005	mg/L		
21H1362_B1H1510-BLK3	Thallium dissolved	<0.0000040	mg/L	F	metals	EPA 6020B	16-Aug-21	0.000004	mg/L		
21H1362_B1H1510-BLK3	Thorium dissolved	<0.000010	mg/L	F	metals	EPA 6020B	16-Aug-21	0.00001	mg/L		
21H1362_B1H1510-BLK3	Tin dissolved	<0.000050	mg/L	F	metals	EPA 6020B	16-Aug-21	0.00005	mg/L		
21H1362_B1H1510-BLK3	Titanium dissolved	<0.00020	mg/L	F	metals	EPA 6020B	16-Aug-21	0.0002	mg/L		
21H1362_B1H1510-BLK3	Uranium dissolved	<0.0000010	mg/L	F	metals	EPA 6020B	16-Aug-21	0.000001	mg/L		
21H1362_B1H1510-BLK3	Vanadium dissolved	<0.00020	mg/L	F	metals	EPA 6020B	16-Aug-21	0.0002	mg/L		
21H1362_B1H1510-BLK3	Zinc dissolved	<0.0010	mg/L	F	metals	EPA 6020B	16-Aug-21	0.001	mg/L		
21H1362_B1H1510-BLK3	Zirconium dissolved	<0.000020	mg/L	F	metals	EPA 6020B	16-Aug-21	0.00002	mg/L		
21H1362_B1H1510-BLK3	Tungsten dissolved	<0.20	ug/L	F	metals	EPA 6020B	16-Aug-21	0.2	ug/L		
21H1362_B1H1510-BS1	Aluminum dissolved	109	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS1	Antimony dissolved	99	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS1	Arsenic dissolved	100	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS1	Barium dissolved	98	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS1	Beryllium dissolved	101	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS1	Bismuth dissolved	101	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS1	Boron dissolved	101	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS1	Cadmium dissolved	100	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS1	Calcium dissolved	103	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS1	Chromium dissolved	100	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS1	Cobalt dissolved	100	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS1	Copper dissolved	99	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS1	Iron dissolved	100	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS1	Lead dissolved	111	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS1	Lithium dissolved	99	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS1	Magnesium dissolved	113	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS1	Manganese dissolved	97	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS1	Mercury dissolved	99	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS1	Molybdenum dissolved	95	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS1	Nickel dissolved	101	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS1	Phosphorus dissolved	100	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS1	Potassium dissolved	104	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS1	Selenium dissolved	102	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80

Sample Code	Parameter	Result	Result Units	Total or Filtered	Method Type	Method Name	Date Analyzed	EQL	EQL Units	UCL	LCL
WO-21G3912											
21H1362_B1H1510-BS1	Silicon dissolved	109	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS1	Silver dissolved	98	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS1	Sodium dissolved	114	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS1	Strontium dissolved	94	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS1	Sulfur dissolved	99	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS1	Tellurium dissolved	108	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS1	Thallium dissolved	97	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS1	Thorium dissolved	94	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS1	Tin dissolved	98	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS1	Titanium dissolved	91	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS1	Tungsten dissolved	99	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS1	Uranium dissolved	97	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS1	Vanadium dissolved	100	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS1	Zinc dissolved	110	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS1	Zirconium dissolved	100	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS2	Aluminum dissolved	118	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS2	Antimony dissolved	98	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS2	Arsenic dissolved	100	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS2	Barium dissolved	101	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS2	Beryllium dissolved	102	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS2	Bismuth dissolved	101	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS2	Boron dissolved	102	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS2	Cadmium dissolved	100	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS2	Calcium dissolved	101	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS2	Chromium dissolved	101	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS2	Cobalt dissolved	100	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS2	Copper dissolved	99	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS2	Iron dissolved	101	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS2	Lead dissolved	110	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS2	Lithium dissolved	98	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS2	Magnesium dissolved	113	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS2	Manganese dissolved	97	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS2	Mercury dissolved	116	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS2	Molybdenum dissolved	96	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS2	Nickel dissolved	102	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS2	Phosphorus dissolved	97	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS2	Potassium dissolved	101	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS2	Selenium dissolved	103	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS2	Silicon dissolved	101	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS2	Silver dissolved	98	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS2	Sodium dissolved	110	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS2	Strontium dissolved	95	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS2	Sulfur dissolved	106	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS2	Tellurium dissolved	108	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS2	Thallium dissolved	97	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS2	Thorium dissolved	95	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS2	Tin dissolved	99	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS2	Titanium dissolved	111	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS2	Tungsten dissolved	98	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS2	Uranium dissolved	97	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS2	Vanadium dissolved	101	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS2	Zinc dissolved	106	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-BS2	Zirconium dissolved	102	%	F	metals	EPA 6020B	16-Aug-21	1	%	120	80
21H1362_B1H1510-SRM1	Aluminum dissolved	107	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM1	Antimony dissolved	112	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM1	Arsenic dissolved	118	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM1	Barium dissolved	100	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM1	Beryllium dissolved	113	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM1	Boron dissolved	109	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM1	Cadmium dissolved	110	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM1	Calcium dissolved	116	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM1	Chromium dissolved	111	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM1	Cobalt dissolved	114	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM1	Copper dissolved	110	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM1	Iron dissolved	114	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM1	Lead dissolved	121	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM1	Lithium dissolved	110	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM1	Magnesium dissolved	128	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM1	Manganese dissolved	107	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM1	Molybdenum dissolved	110	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM1	Nickel dissolved	113	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM1	Phosphorus dissolved	105	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM1	Potassium dissolved	121	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM1	Selenium dissolved	128	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM1	Sodium dissolved	129	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM1	Strontium dissolved	102	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM1	Thallium dissolved	108	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM1	Uranium dissolved	106	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM1	Vanadium dissolved	108	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM1	Zinc dissolved	114	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM2	Aluminum dissolved	101	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM2	Antimony dissolved	108	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM2	Arsenic dissolved	112	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM2	Barium dissolved	96	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM2	Beryllium dissolved	110	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM2	Boron dissolved	108	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM2	Cadmium dissolved	107	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM2	Calcium dissolved	111	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM2	Chromium dissolved	107	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM2	Cobalt dissolved	110	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM2	Copper dissolved	106	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70

Sample Code	Parameter	Result	Result Units	Total or Filtered	Method Type	Method Name	Date Analyzed	EQL	EQL Units	UCL	LCL
WO-21G3912											
21H1362_B1H1510-SRM2	Iron dissolved	108	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM2	Lead dissolved	118	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM2	Lithium dissolved	106	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM2	Magnesium dissolved	122	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM2	Manganese dissolved	103	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM2	Molybdenum dissolved	106	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM2	Nickel dissolved	109	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM2	Phosphorus dissolved	105	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM2	Potassium dissolved	111	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM2	Selenium dissolved	115	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM2	Sodium dissolved	122	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM2	Strontium dissolved	99	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM2	Thallium dissolved	106	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM2	Uranium dissolved	103	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM2	Vanadium dissolved	104	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1510-SRM2	Zinc dissolved	111	%	F	metals	EPA 6020B	16-Aug-21	1	%	130	70
21H1362_B1H1538-BLK1	Phosphorus Total Dissolved	<0.0050	mg/L	F	General Par SM 4500-P F	(2 17-Aug-21	0.005	mg/L			
21H1362_B1H1538-BS1	Phosphorus Total Dissolved	109	%	F	General Par SM 4500-P F	(2 17-Aug-21	1	%		115	85
21H1362_B1H1679-BLK1	Phosphorus Total Dissolved	<0.0050	mg/L	F	General Par SM 4500-P F	(2 18-Aug-21	0.005	mg/L			
21H1362_B1H1679-BLK2	Phosphorus Total Dissolved	<0.0050	mg/L	F	General Par SM 4500-P F	(2 18-Aug-21	0.005	mg/L			
21H1362_B1H1679-BS1	Phosphorus Total Dissolved	111	%	F	General Par SM 4500-P F	(2 18-Aug-21	1	%		115	85
21H1362_B1H1679-BS2	Phosphorus Total Dissolved	111	%	F	General Par SM 4500-P F	(2 18-Aug-21	1	%		115	85

NOTES:

Job No: 21G3912; 21G3906; 21H0858; 21H1142; 21H1362; 21H1755

Abbreviations & Descriptions:

Method Blank (Blk): A blank sample that undergoes sample processing identical to that carried out for the test samples.

Method Blank results are used to assess contamination from the laboratory environment and reagents.

Duplicate (Dup): An additional or second portion of a randomly selected sample in the analytical run carried through the entire analytical process.

Duplicates provide a measure of the analytical method's precision (reproducibility).

Blank Spike (BS): A sample of known concentration which undergoes processing identical to that carried out for test samples, also referred to as a laboratory control sample (LCS).

Blank spikes provide a measure of the analytical method's accuracy.

Matrix Spike (MS): A second aliquot of sample is fortified with a known concentration of target analytes and carried through the entire analytical process.

Matrix spikes evaluate potential matrix effects that may affect the analyte recovery.

Standard Reference Material (SRM): A homogenous material of similar matrix to the samples, certified for the parameter(s) listed.

Reference Materials ensure that the analytical process is adequate to achieve acceptable recoveries of the parameter(s) tested.

Each QC type is analyzed at a 5-10% frequency, i.e. one blank/duplicate/spike for every 10-20 samples.

For all types of QC, specified recovery (% Rec) and relative percent difference (RPD) limits are derived from long-term method performance averages and/or prescribed by the reference method.

EQL = Estimated Quantitation Limits

PQL = Practical Quantitation Limits

UCL = Upper Control Limit

LCL = Lower Control Limit

BLK = Blank

BS = Blank Spike

MS = Matrix Spike

DUP = Duplicate

SRM = Standard Reference Materials

Global
ARD Testing Services Inc.

PROJECT INFORMATION	
Project Name:	Springpole
Project Number:	ONS2104

INVOICE		
Submitted To:	1	Accounts Payable (accountspayale@firstmininggold.com)
	2	Kristen Gault (kristen.gault@woodplc.com)
Company:		First Mining Gold Corp.
Address:		Suite 2070 - 1188 West Georgia, Street Vancouver, BC V6E 4A2
Contact No:		(844) 306-8827
cc:	1	Meghan Bertenshaw (meghan@firstmininggold.com)
	2	N/A
Global Invoice No:		ARD1956-0921B
Dates Submitted:		September 14, 2021

REPORTING	
Global Project No:	1956 (B9)
Report Version:	3
Pages (Including Cover):	9
Report Title:	COA (B9) Springpole (rec'd 29-Jul21)
Analysis Reviewed By:	Prab Bhatia (PBhatia@globalARDtesting.com)
Position:	Project Manager
Report Certified By:	Prab Bhatia
Signature:	

[illegible]

CERTIFICATE OF ANALYSIS - SAMPLE DETAILS

PAGE: 2 of 9

GLOBAL PROJECT NO: 1956 (B9)

CLIENT: First Mining Gold Corp.

PROJECT NAME: Springpole

PROJECT NO: ONS2104

REPORT VERSION: 3

Sample List:

S. No.	Sample ID	Sample Type	Condition	Wt. of Sample Rec'd (Kg)	Global Notes - if any
1	M112005	Core	Dry	4.10	
2	M112010	Core	Dry	4.85	
3	M112016	Core	Dry	3.70	
4	M112013	Core	Dry	3.55	
5	M112031	Core	Dry	3.90	
6	M112049	Core	Dry	4.60	
7	M112041	Core	Dry	4.05	
8	M112065	Core	Dry	4.50	
9	M112057	Core	Damp	4.05	
10	M112051	Core	Dry	6.40	
11	M112068	Core	Dry	4.75	
12	M112074	Core	Dry	4.50	
13	M112078	Core	Dry	5.60	
14	M112086	Core	Dry	3.95	
15	M112089	Core	Dry	6.30	
16	M112092	Core	Dry	4.10	
17	M112105	Core	Dry	4.15	
18	M112103	Core	Dry	4.30	
19	M112108	Core	Dry	4.70	
20	M112119	Core	Dry	4.15	
21	M112122	Core	Dry	4.30	
22	M112128	Core	Dry	4.35	
23	M112133	Core	Dry	3.90	
24	M112139	Core	Dry	4.00	
25	M112149	Core	Dry	4.15	
26	M112153	Core	Dry	4.10	
27	M112158	Core	Dry	4.05	
28	M112163	Core	Dry	4.00	

Total wt of sample rec'd (kg): 123.05

Sample Receipt Info:	
Date Samples Rec'd:	29-Jul-21
No. of Samples Rec'd:	28
Samples Rec'd By:	Andy

Analytical Instructions:	
From:	Anna Klein via email/COC confirmation
Date:	22-Jul-21

S. No.	Sample ID	Paste pH	Fizz Rating	Total Carbon	Total Inorganic C	CaCO ₃ Equivalents ¹	Total Sulphur	Sulphate Sulphur	Sulphide Sulphur	AP ³	STD Sobek NP	NNP ⁴	NPR ⁵
Units:		pH Units		wt. %	wt %	kg CaCO ₃ /tonne	wt. %	wt %	wt %		kg CaCO ₃ /tonne		
Reported Detection Limit:		0.01		0.02	0.02	1.7	0.01	0.01	0.01	0.3	0.5		
1	M112005	9.1	Strong	1.97	1.74	145.0	0.15	0.03	0.12	3.8	180.6	176.9	48.2
2	M112010	9.2	Moderate	1.89	1.34	111.7	1.05	0.02	1.03	32.2	120.4	88.2	3.7
3	M112016	9.5	Moderate	1.87	1.56	130.0	0.02	0.02	<0.01	<0.3	144.6	144.6	N/A
4	M112013	8.4	Strong	1.8	1.71	142.5	4.34	<0.01	4.34	135.6	143.3	7.7	1.1
5	M112031	9.0	Moderate	2.02	1.44	120.0	1.29	<0.01	1.29	40.3	162.0	121.7	4.0
6	M112049	9.0	Strong	1.63	1.52	126.7	2.78	0.02	2.76	86.3	137.5	51.3	1.6
7	M112041	9.4	Strong	1.53	1.37	114.2	0.43	<0.01	0.43	13.4	125.9	112.5	9.4
8	M112065	9.4	Moderate	4.79	4.58	381.7	0.8	0.04	0.76	23.8	398.0	374.3	16.8
9	M112057	9.6	Moderate	2.25	1.76	146.7	0.03	0.03	<0.01	<0.3	161.0	161.0	N/A
10	M112051	9.5	Moderate	2.29	1.82	151.7	<0.01	<0.01	<0.01	<0.3	166.0	166.0	N/A
11	M112068	9.3	Moderate	4.34	4.24	353.3	0.41	0.02	0.39	12.2	384.1	371.9	31.5
12	M112074	8.8	Moderate	4.24	4.11	342.5	1.67	0.02	1.65	51.6	367.8	316.2	7.1
13	M112078	9.5	Moderate	2.41	1.86	155.0	1.03	0.03	1.00	31.3	168.5	137.3	5.4
14	M112086	9.1	Moderate	1.43	0.88	73.3	0.62	<0.01	0.62	19.4	107.7	88.3	5.6
15	M112089	9.1	Moderate	1.38	0.84	70.0	0.09	0.02	0.07	2.2	100.2	98.0	45.8
16	M112092	8.5	Moderate	1.16	0.77	64.2	1.93	0.02	1.91	59.7	81.1	21.4	1.4
17	M112105	9.3	Moderate	1.51	1.12	93.3	0.11	0.03	0.08	2.5	114.4	111.9	45.8
18	M112103	9.3	Moderate	1.54	1.04	86.7	0.09	0.02	0.07	2.2	112.8	110.6	51.6
19	M112108	9.2	Moderate	1.44	1.07	89.2	0.28	0.03	0.25	7.8	111.3	103.5	14.2
20	M112119	9.2	Strong	2.28	1.97	164.2	0.4	<0.01	0.40	12.5	177.0	164.5	14.2
21	M112122	9.1	Strong	1.6	1.51	125.8	0.48	<0.01	0.48	15.0	131.7	116.7	8.8
22	M112128	8.9	Strong	1.99	1.88	156.7	0.17	<0.01	0.17	5.3	162.4	157.1	30.6
23	M112133	8.9	Strong	2.31	2.17	180.8	0.63	<0.01	0.63	19.7	183.8	164.1	9.3
24	M112139	9.3	Moderate	1.74	1.22	101.7	<0.01	0.01	<0.01	<0.3	144.6	144.6	N/A
25	M112149	9.0	Moderate	1.18	0.92	76.7	0.48	<0.01	0.48	15.0	96.3	81.3	6.4
26	M112153	9.0	Moderate	0.88	0.56	46.7	0.83	<0.01	0.83	25.9	74.8	48.9	2.9
27	M112158	9.1	Moderate	1.47	0.96	80.0	0.25	<0.01	0.25	7.8	116.4	108.6	14.9
28	M112163	9.0	Moderate	1.01	0.64	53.3	0.53	<0.01	0.53	16.6	76.8	60.2	4.6

S. No.	Sample ID	Paste pH	Fizz Rating	Total Carbon wt. %	Total Inorganic C wt %	CaCO ₃ Equivalents ^{*1} kg CaCO ₃ /tonne	Total Sulphur wt. %	Sulphate Sulphur wt %	Sulphide Sulphur wt %	AP ^{*3}	STD Sobek NP kg CaCO ₃ /tonne	NNP ^{*4}	NPR ^{*5}
<i>Units:</i>		pH Units											
Reported Detection Limit:		0.01		0.02	0.02	1.7	0.01	0.01	0.01	0.3	0.5		
QUALITY ASSURANCE / QUALITY CONTROL													
Replicates:													
1	M112005			1.97			0.15						
1 R	M112005 (Rep)			1.94			0.14						
8	M112065										398.0		
8 R	M112065 (Rep)										433.2		
10	M112051	9.5	Moderate					<0.01			166.0		
10 R	M112051 (Rep)	9.6	Moderate					<0.01			166.0		
11	M112068										384.1		
11 R	M112068 (Rep)										420.7		
12	M112074										367.8		
12 R	M112074 (Rep)										371.5		
20	M112119	9.2	Strong					<0.01			177.0		
20 R	M112119 (Rep)	9.1	Strong					<0.01			178.2		
21	M112122			1.60			0.48						
21 R	M112122 (Rep)			1.61			0.48						
Certified Reference Material (CRM) Analysis:													
Certified Reference Material		KZK-1		KZK-1	Calcium Carbonate		KZK-1	RTS-3a	KZK-1		1) KZK-1 (Slight) 2) KZK-1 (Moderate)		
CRM True Value		8.80		0.95	12.00		0.80	1.10	0.37		1) 59.0 2) 64.8		
Reference Material Results				0.92			0.76	1.07			1) 57.9 2) N/A		
Tolerance (+/-) or Acceptance Range		0.09		90% - 110%	90% - 110%		90% - 110%	0.99 - 1.21	0.33 - 0.41		1) 2.8 2) 5.8		
Method Blank Analysis:													
Method Blank Results				<0.02	<0.02		<0.01	<0.01					
GLOBAL SOP No. / Method:		ARD-004	ARD-005	LECO	HCl leach/ CO ₂ -Coulometer	Calc.	LECO	ARD-013 (Seq. HCl/HNO ₃ leach)	Calc.		ARD-007	Calc.	Calc.

NOTES:

Acceptance criteria at Global ARD Testing for all CRMs is ±10 % of certified value.

Job No:

Date of Analysis:

pH of DI water used:

EC of DI water used:

METHODS:

Total Sulphur by Leco.

Total Inorganic Carbon (TIC): HCl leach, evolved gas (CO₂) analysed by CO₂ Coulometer.

Surface Rinse-pH (1 to 107 minus 10 & 33): was conducted on < 2mm, sieved from 1/4" crushed homogenized material. Solid: liquid ration used = 1:1 (i.e. 25-30 g sample: 25-30 mL DI water).

Note: for samples received as pulps (#10, 33, 108-153) - no Rinse-pH was conducted. This is indicate as N/A (Not Applicable) in the report.

ABBREVIATIONS:

R = Rep = Replicate (a replicate is a sub-sample scooped from a single pulp sample bag produced per client sample)

D = Dup = Duplicate (a duplicate is 2nd sub-pulp sample bag produced by processing a split of the original client sample received. A duplicate pulp sample is prepared only at client request)

NP = Neutralization Potential

Calc. = Calculation

NR = Not Received

CALCULATIONS:

*1 CaCO₃ Equivalents: based on TIC

*2 Non-Extractable Sulphur: Total sulphur - (sulphate sulphur + sulphide sulphur)

*3 AP (Acid Potential): Sulphide-Sulphur x 31.25

*4 NNP (Net Neutralization Potential): NP - AP

*5 NPR (Neutralization Potential Ratio): NP/AP

REFERENCES:

Surface Rinse-pH: MEND Report 1.20.1, Version 0 (2009).

Sample Preparation: ASTM E877-08; MEND Report 1.20.1, Version 0 (2009)

ABA: Dried below 40°C (if received wet), jaw-crushed if necessary, split by riffing and pulverized to 85% passing 200 mesh (75 µm).

STD Sobek NP / Paste pH / Fizz Rating: Sobek, A.A., Schuller, W.A., Freeman, J.R. and Smith, R.M.; US EPA-600/2-78-054 (1978).

Sulphur Speciation: Modified ASTM D2492-02 Method. The S extracted is determined by analysing the extract for SO₄ using UV-Vis Spectrophotometer (STD Method 4500-SO42- E).

Peroxide Siderite Correction for Sobek NP: Skousen, J., Renton, J., Brown, H., Evans, P., Leavitt, B., Brady, K., Cohen, L. and Ziemkiewicz, P. (1997). Neutralization Potential of Overburden Samples containing Siderite, Journal of Environmental Quality, v26, n3, p673-681.

S. No.	Sample ID	Method	IMS-130																										
		Silver (Ag) ppm	Aluminum (Al) %	Arsenic (As) ppm	Gold (Au) ppm	Boron (B) ppm	Barium (Ba) ppm	Beryllium (Be) ppm	Bismuth (Bi) ppm	Calcium (Ca) %	Cadmium (Cd) ppm	Cerium (Ce) ppm	Cobalt (Co) ppm	Chromium (Cr) ppm	Cesium (Cs) ppm	Copper (Cu) ppm	Iron (Fe) %	Gallium (Ga) ppm	Germanium (Ge) ppm	Hafnium (Hf) ppm	Mercury (Hg) ppm	Indium (In) ppm	Potassium (K) %	Lanthanum (La) ppm	Lithium (Li) ppm	Magnesium (Mg) %	Manganese (Mn) ppm		
		MDL	0.01	0.01	0.1	0.005	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	
Sample Type																													
1	M112005	Pulp	0.12	1.5	397.9	0.0141	15	94	0.67	0.02	4.01	0.04	41.66	22.4	37	17.97	41.3	6.08	4.55	0.10	1.38	0.03	0.010	1.27	18.5	12.0	1.12	1107	
2	M112010	Pulp	0.22	0.9	66.6	0.0241	11	51	0.65	0.10	3.55	0.17	38.22	24.8	23	9.16	52.2	5.16	2.73	0.09	0.94	0.04	0.010	0.74	17.0	5.8	0.96	1129	
3	M112016	Pulp	0.05	1.8	166.6	0.0026	19	84	0.66	0.03	3.46	0.03	50.35	23.2	32	20.10	38.3	6.19	6.42	0.12	0.73	0.02	0.014	1.65	22.6	12.6	1.84	996	
4	M112013	Pulp	0.43	0.3	403.7	0.2799	<10	34	0.28	0.06	5.33	0.17	21.81	29.7	30	0.53	40.6	4.52	1.33	0.07	1.17	0.06	0.013	0.28	9.6	3.0	0.27	1272	
5	M112031	Pulp	1.58	0.6	61.7	1.4887	22	91	0.66	0.42	4.15	1.07	53.62	7.7	28	3.01	22.4	2.31	2.41	0.09	1.72	0.51	0.013	0.50	22.9	10.4	1.73	1926	
6	M112049	Pulp	0.99	1.1	267.6	0.1896	22	166	0.53	0.04	4.77	0.33	68.95	30.6	28	10.76	49.9	5.01	6.38	0.09	1.92	0.20	0.018	1.08	52.2	23.3	0.95	1940	
7	M112041	Pulp	0.11	0.3	265.8	0.0917	<10	95	0.70	0.44	3.69	0.15	69.77	5.3	37	0.79	17.2	1.26	1.61	0.10	0.52	0.16	0.005	0.28	29.9	2.7	0.72	745	
8	M112065	Pulp	0.18	3.0	957.7	0.0378	14	105	1.69	0.02	6.99	0.17	5.25	77.6	351	64.97	38.1	8.79	6.84	0.13	0.55	0.05	0.023	2.34	2.2	30.4	6.43	3875	
9	M112057	Pulp	0.12	2.0	25.1	0.0015	10	216	0.77	0.04	3.85	0.07	53.05	25.1	66	66.46	81.5	5.39	7.24	0.12	0.72	0.05	0.017	1.91	24.5	22.9	3.41	1273	
10	M112051	Pulp	0.07	1.8	27.5	0.004	17	96	0.79	0.02	3.88	0.06	57.18	27.2	62	65.89	84.9	5.44	6.72	0.13	2.00	0.07	0.017	1.76	26.5	23.9	3.2	1435	
11	M112068	Pulp	0.18	3.5	1086.1	0.0196	13	128	2.08	0.02	5.33	0.09	7.01	93.0	517	56.11	38.5	9.52	8.50	0.25	0.45	0.04	0.028	2.18	2.9	27.6	8.44	3045	
12	M112074	Pulp	0.10	3.7	1040.9	0.0197	<10	42	0.68	0.01	6.41	0.06	6.79	81.8	530	21.75	30.8	8.50	8.38	0.28	0.36	0.02	0.025	0.55	3.9	25.1	8.03	1857	
13	M112078	Pulp	0.20	3.4	531.6	0.0413	11	245	0.84	0.04	4.04	0.1	8.69	54.8	178	71.32	68.7	8.57	8.72	0.11	0.85	0.04	0.025	2.67	3.5	26.5	5.17	1776	
14	M112086	Pulp	0.23	0.5	46.0	0.018	11	200	0.40	0.30	2.90	0.09	55.13	8.9	24	5.34	22.1	2.25	2.22	0.10	2.62	0.08	0.005	0.47	24.5	5.1	0.92	1164	
15	M112089	Pulp	0.10	1.1	62.8	0.0006	11	115	0.67	0.06	3.06	0.08	59	13.6	26	7.89	19.5	4.35	3.32	0.11	0.68	0.03	0.009	0.93	26.5	8.4	0.65	1153	
16	M112092	Pulp	0.13	0.7	126.5	0.0212	<10	51	0.43	0.08	2.61	0.1	31.61	27.8	37	5.63	50.0	5.09	2.92	0.08	0.80	0.06	0.009	0.61	14.1	3.7	0.52	1056	
17	M112105	Pulp	0.12	2.1	1254.3	0.0113	17	86	0.66	0.04	2.76	0.04	46.51	23.2	32	21.37	46.6	6.28	6.29	0.13	0.40	0.02	0.013	1.83	20.7	13.1	1.88	1009	
18	M112103	Pulp	0.06	1.7	716.2	0.0064	<10	90	0.66	0.04	2.83	0.09	55.39	20.2	27	16.82	41.2	5.33	5.70	0.06	0.23	0.02	0.013	1.46	24.1	10.5	1.5	863	
19	M112108	Pulp	0.06	1.4	639.3	0.0162	<10	62	0.50	0.07	2.53	0.1	43.35	19.3	28	15.43	40.7	4.54	4.70	<0.05	0.84	0.02	0.013	1.20	19.0	9.3	1.47	800	
20	M112119	Pulp	0.15	0.4	34.5	0.0499	<10	112	0.54	0.48	4.62	0.27	56.74	6.2	19	2.21	17.2	1.58	1.89	0.05	1.51	0.09	<0.005	0.37	24.3	6.0	1.4	1318	
21	M112122	Pulp	0.43	0.5	43.7	0.1378	<10	70	0.53	0.43	4.01	0.69	57.62	5.0	25	3.11	23.4	1.17	1.99	0.05	1.54	0.36	0.006	0.41	25.7	6.5	0.71	1194	
22	M112128	Pulp	0.12	0.6	30.8	0.0662	<10	110	0.67	0.50	5.15	0.11	64.83	3.8	21	6.40	15.1	1.10	2.64	0.06	2.41	0.10	0.007	0.55	29.2	11.6	0.95	802	
23	M112133	Pulp	0.18	0.5	32.1	0.0998	<10	108	0.51	0.34	5.29	0.21	58.21	5.7	26	2.08	18.5	1.41	2.00	<0.05	1.78	0.09	<0.005	0.40	27.3	8.9	1.07	1352	
24	M112139	Pulp	0.04	2.6	10.5	0.0471	<10	293	0.85	<0.01	3.03	0.13	57.31	27.9	73	48.51	8.8	5.68	9.61	0.07	0.46	0.01	0.020	2.38	26.5	19.7	3.52	1133	
25	M112149	Pulp	0.33	0.6	31.1	0.0822	<10	100	0.59	0.34	2.67	0.12	76.65	5.1	23	3.95	19.8	1.48	2.50	0.06	0.86	0.07	<0.005	0.51	32.6	11.7	0.77	1633	
26	M112153	Pulp	0.59	0.5	50.8	0.2128	<10	138	0.40	0.44	2.06	0.14	49.72	5.2	30	2.47	19.3	1.52	1.96	<0.05	1.12	0.11	<0.005	0.41	22.1	7.2	0.58	1159	
27	M112158	Pulp	0.28	0.4	32.8	0.0255	<10	96	0.45	0.30	2.86	0.1	68.55	5.0	27	3.60	17.1	1.56	2.14	0.06	1.75	0.09	0.005	0.39	29.2	6.5	0.96	1700	
28	M112163	Pulp	0.45	0.5	66.4	0.112	<10	123	0.49	0.41	2.23	0.06	57.57	5.0	23	4.19	22.4	1.40	2.08	0.05	1.44	0.08	<0.005	0.42	24.8	8.5	0.67	1629	

CERTIFICATE OF ANALYSIS • METALS RESULTS BY AQUA REGIA DIGEST & ICP-MS ANALYSIS ON SOLIDS (Code IMS-130)

PAGE: 4 of 9
GLOBAL PROJECT NO: 1956 (B9)
CLIENT: First Mining Gold Corp.
PROJECT NAME: Springpole
PROJECT NO: ONS2104
3

S. No.	Sample ID	Method Analyte Unit MDL Sample Type	Molybdenum (Mo) ppm 0.05	Sodium (Na) % 0.01	Niobium (Nb) ppm 0.05	Nickel (Ni) ppm 0.2	Phosphorous (P) ppm 10	Lead (Pb) ppm 0.2	Rubidium (Rb) ppm 0.1	Rhenium (Re) ppm 0.001	Sulphur (S) % 0.01	Antimony (Sb) ppm 0.05	Scandium (Sc) ppm 0.1	Selenium (Se) ppm 0.2	Tin (Sn) ppm 0.2	Strontium (Sr) ppm 0.2	Tantalum (Ta) ppm 0.01	Tellurium (Te) ppm 0.01	Thorium (Th) ppm 0.2	Titanium (Ti) % 0.005	Thallium (Tl) ppm 0.02	Uranium (U) ppm 0.05	Vandium (V) ppm 1	Tungsten (W) ppm 0.05	Yttrium (Y) ppm 0.05	Zinc (Zn) ppm 2	Zirconium (Zr) ppm 0.5
1	M112005	Pulp	1.35	0.02	0.18	28.1	1313	3.6	162.0	<0.001	0.20	4.27	3.7	<0.2	0.3	186	<0.01	0.04	3	0.196	5.04	0.56	45	4.83	9.83	65	74.7
2	M112010	Pulp	2.49	0.01	0.23	22.2	1285	6.3	86.9	<0.001	1.13	9.65	2.7	<0.2	0.2	161.1	0.03	0.03	2.9	0.093	2.92	0.55	30	1.56	8.57	87	57.2
3	M112016	Pulp	0.68	0.02	0.17	34.9	1378	6.0	175.6	<0.001	0.06	2.99	5.1	<0.2	0.4	151	<0.01	0.02	3.4	0.282	4.89	0.54	57	1.21	9.24	107	53.4
4	M112013	Pulp	15.33	<0.01	0.12	52.6	1175	10.1	15.5	<0.001	4.44	7.73	1.8	0.4	<0.2	171.9	<0.01	0.03	1.6	0.03	0.33	0.5	12	7.19	9.57	22	51.3
5	M112031	Pulp	35.00	0.02	0.13	14.5	1379	70.7	41.2	<0.001	1.53	9.39	0.9	1	<0.2	370.7	<0.01	0.48	6	0.016	1.01	4.91	16	1.16	8.67	219	105.0
6	M112049	Pulp	20.98	0.02	0.48	32.8	1397	23.1	133.1	0.003	2.92	8.00	5.8	<0.2	0.3	416.6	<0.01	0.08	2.1	0.175	3.91	0.87	65	21.14	12.75	114	76.3
7	M112041	Pulp	0.65	0.03	<0.05	8.2	1389	20.7	16.6	<0.001	0.55	4.97	0.9	<0.2	<0.2	393.4	<0.01	0.06	6.7	0.007	0.31	4.11	5	0.44	8.55	63	36.1
8	M112065	Pulp	2.12	0.02	<0.05	403.6	371	8.2	202.6	<0.001	0.96	6.53	10.4	1.1	0.2	262	<0.01	0.25	0.3	0.302	4.7	0.2	86	0.66	3.76	123	22.0
9	M112057	Pulp	0.49	0.04	0.07	22.3	1220	5.6	188.1	<0.001	0.07	2.92	8.3	<0.2	0.3	564.8	<0.01	0.04	4.6	0.274	4.29	0.9	90	0.44	8.47	78	50.9
10	M112051	Pulp	0.23	0.03	0.06	22.0	1252	4.5	193.0	<0.001	0.04	2.68	7.7	<0.2	0.3	439.7	<0.01	0.04	4.7	0.256	4.68	0.89	85	0.55	8.76	87	80.9
11	M112068	Pulp	1.60	0.02	<0.05	498.3	374	5.4	182.2	<0.001	0.48	2.65	13.3	0.6	0.3	207.8	<0.01	0.13	0.3	0.288	4.06	0.15	104	2.48	3.53	124	17.7
12	M112074	Pulp	3.46	<0.01	<0.05	475.1	385	5.9	50.5	<0.001	1.77	3.59	13.2	0.3	<0.2	513.7	<0.01	0.11	<0.2	0.079	1.22	0.08	103	0.10	3.39	78	14.4
13	M112078	Pulp	0.71	0.03	<0.05	194.6	556	8.9	244.4	<0.001	1.21	3.29	12.5	0.2	0.3	357.8	<0.01	0.09	0.6	0.389	5.86	0.23	118	0.38	3.75	140	35.3
14	M112086	Pulp	1.55	0.04	0.14	17.4	616	30.1	46.0	<0.001	0.70	4.11	1.2	<0.2	<0.2	209.8	<0.01	0.06	5.4	0.049	1.2	2.64	13	0.32	7.87	54	110.7
15	M112089	Pulp	3.50	0.02	0.24	19.2	946	4.6	85.5	<0.001	0.15	5.84	2.3	<0.2	0.2	164.9	<0.01	0.03	4.3	0.132	2.48	1.18	16	9.54	13.02	64	61.8
16	M112092	Pulp	6.00	0.01	0.26	52.4	1397	7.2	58.7	<0.001	1.94	7.18	2.7	<0.2	<0.2	115.8	<0.01	0.04	2.5	0.096	1.8	0.61	36	17.67	8.00	81	50.1
17	M112105	Pulp	1.23	0.02	0.14	28.4	1416	4.8	158.7	<0.001	0.16	4.98	5.1	<0.2	0.4	173.6	<0.01	0.01	3.5	0.294	3.54	0.55	62	1.07	8.47	106	35.8
18	M112103	Pulp	0.71	0.02	0.13	29.5	1555	4.8	132.7	<0.001	0.14	5.31	4	<0.2	0.4	209.2	0.03	0.02	4	0.219	2.95	0.59	41	1.28	9.42	100	23.8
19	M112108	Pulp	0.62	0.03	0.12	18.3	1166	5.0	106.6	<0.001	0.33	6.23	3.6	<0.2	0.3	172	<0.01	0.02	2.9	0.176	2.35	0.43	41	1.16	7.29	77	49.3
20	M112119	Pulp	0.48	0.02	0.07	9.0	1183	50.0	29.9	<0.001	0.48	7.70	0.7	<0.2	<0.2	477.5	<0.01	0.04	5.8	0.011	0.57	3.77	6	0.35	8.16	67	91.8
21	M112122	Pulp	1.99	0.02	0.07	6.9	1227	39.2	33.2	<0.001	0.58	6.26	0.7	<0.2	<0.2	402	<0.01	0.15	6	0.012	0.65	3.98	7	0.35	8.23	214	95.1
22	M112128	Pulp	1.50	0.02	0.11	5.3	1225	18.1	56.5	<0.001	0.23	4.44	0.8	<0.2	<0.2	694.2	<0.01	0.09	6.1	0.023	1.08	3.73	8	0.38	8.69	42	126.6
23	M112133	Pulp	2.85	0.02	0.07	9.7	1161	34.7	29.0	<0.001	0.70	11.85	0.7	<0.2	0.2	438.7	<0.01	0.05	5.6	0.01	0.46	3.81	6	0.37	8.09	57	106.7
24	M112139	Pulp	0.12	0.03	<0.05	27.0	1233	5.7	239.2	<0.001	0.04	1.70	8.6	<0.2	0.4	689.8	<0.01	0.06	4.8	0.299	5.22	0.86	90	0.42	8.18	81	36.3
25	M112149	Pulp	1.61	0.02	0.08	8.8	1348	22.4	41.1	<0.001	0.56	5.61	0.9	<0.2	<0.2	335.8	<0.01	0.11	9.1	0.019	0.79	5.06	7	1.33	9.96	46	85.5
26	M112153	Pulp	2.20	0.02	0.05	9.0	1315	43.7	29.2	<0.001	0.93	5.78	0.9	0.3	<0.2	316.3	<0.01	0.18	6.7	0.012	0.55	4.91	8	1.19	9.09	53	91.0
27	M112158	Pulp	0.46	0.02	0.05	13.0	1307	22.8	33.2	<0.001	0.32	4.03	0.9	<0.2	<0.2	365.7	<0.01	0.08	6.6	0.016	0.65	3.81	8	0.91	8.51	43	100.7
28	M112163	Pulp	1.47	0.02	0.07	9.3	1304	26.7	37.0	<0.001	0.62	4.86	0.8	0.3	<0.2	309.8	<0.01	0.2	6.8	0.014	0.73	4.2	7	1.58	8.88	32	98.8

		Method	IMS-130																										
S. No.	Sample ID	Analyte	Silver (Ag) ppm	Aluminum (Al) %	Arsenic (As) ppm	Gold (Au) ppm	Boron (B) ppm	Barium (Ba) ppm	Beryllium (Be) ppm	Bismuth (Bi) ppm	Calcium (Ca) %	Cadmium (Cd) ppm	Cerium (Ce) ppm	Cobalt (Co) ppm	Chromium (Cr) ppm	Cesium (Cs) ppm	Copper (Cu) ppm	Iron (Fe) %	Gallium (Ga) ppm	Germanium (Ge) ppm	Hafnium (Hf) ppm	Mercury (Hg) ppm	Indium (In) ppm	Potassium (K) %	Lanthanum (La) ppm	Lithium (Li) ppm	Magnesium (Mg) %	Manganese (Mn) ppm	
		Unit																											
		MDL	0.01	0.01	0.1	0.005	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	
		Sample Type																											
QUALITY ASSURANCE / QUALITY CONTROL																													
Pulp Replicates:																													
22	IM12128	Pulp	0.12	0.58	30.8	0.066	<10	110	0.67	0.5	5.15	0.11	64.83	3.8	21	6.40	15.1	1.10	2.64	0.06	2.41	0.10	0.007	0.55	29.2	11.6	0.95	802	
22 R	IM12128	Pulp-Rep	0.08	0.55	30.7	0.078	<10	106	0.61	0.49	5.00	0.09	61.88	3.9	20	6.22	14.7	1.08	2.56	0.05	2.57	0.09	<0.005	0.52	28.2	11.4	0.92	779	
Certified Reference Material:																													
STD OREAS 501			49.49	0.880	311.7	0.754	<10	101	0.63	20.24	1.10	7.82	44.2	4.80	46.0	1.93	1025.0	2.30	5.99	0.07	0.68	0.299	1.625	0.270	20.8	7.60	0.200	452	
True Value STD OREAS 601			49.30	0.826	305.0	0.774	<10	2714	0.62	20.60	1.07	7.81	44.8	4.70	44.2	1.98	1010.0	2.20	5.17	<0.1	<1	<3	1.680	0.251	21.2	7.95	0.195	450	
% Difference			0.0	6.5	2.2	-2.6		-96.3	1.6	-1.7	2.8	0.1	-1.3	2.1	4.1	-2.5	1.5	4.5	-1.5				-3.3	7.6	-1.9	-4.4	2.6	0.4	
Tolerance (%)			2.0	0.054	15.0	0.025	IND	NR	0.10	1.50	0.05	0.48	2.4	0.27	7.4	0.15	0.40	0.11	0.28	NR	IND	IND	0.10	0.021	1.50	0.76	0.016	20.0	
Method Blank:																													
Method Blank			<0.01	<0.01	<0.1	<0.0005	<10	<10	<0.05	<0.01	<0.01	<0.01	<0.02	<0.1	<1	<0.05	<0.2	<0.01	<0.05	<0.05	<0.02	<0.005	<0.005	<0.01	<0.2	<0.1	<0.01	<5	

NOTES:

Job No: YVR2110802

Analytical Methods (IMS-130):

A 0.5 g of pulp sample is leached in hot (95°C) 3:1 aqua regia digestion followed by ICP Mass Spec analysis.

Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5 g).

Refractory and graphitic samples can limit Au solubility.

Abbreviations:

R / Rep = Replicate (a replicate is a sub-sample scooped from a single sample bag produced per client sample)

D / Dup = Duplicate (a duplicate is 2nd sub-sample bag produced by processing a second split of the original client sample received)

MDL = Measurable Detection Limit

IND = Indeterminate

On Certified Reference Material and Tolerance:

Any one element in a run reporting outside tolerance limits does not constitute failure of the standard.

As per Certificate of Analysis (COA): All values indicated are Certified. Values indicated in green are indicative only.

NR = Not Reported (in the Certificate Of Analysis).

S. No.	Sample ID	Method	Molybdenum (Mo) ppm	Sodium (Na) %	Niobium (Nb) ppm	Nickel (Ni) ppm	Phosphorous (P) ppm	Lead (Pb) ppm	Rubidium (Rb) ppm	Rhenium (Re) ppm	Sulphur (S) %	Antimony (Sb) ppm	Scandium (Sc) ppm	Selenium (Se) ppm	Tin (Sn) ppm	Strontium (Sr) ppm	Tantalum (Ta) ppm	Tellurium (Te) ppm	Thorium (Th) ppm	Titanium (Ti) %	Thallium (Tl) ppm	Uranium (U) ppm	Vandium (V) ppm	Tungsten (W) ppm	Yttrium (Y) ppm	Zinc (Zn) ppm	Zirconium (Zr) ppm		
		Analyte Unit																											
		MDL																											
		Sample Type																											
QUALITY ASSURANCE / QUALITY CONTROL																													
Pulp Replicates:																													
22	M112128	Pulp	1.50	0.02	0.11	5.3	1225	18.1	56.5	<0.001	0.23	4.44	0.8	<0.2	<0.2	694.2	<0.01	0.09	6.1	0.023	1.08	3.73	8	0.38	8.69	42	126.6		
22 R	M112128	Pulp-Rep	1.46	0.02	0.10	5.3	1183	17.0	54.6	<0.001	0.24	4.31	0.8	<0.2	<0.2	682.7	<0.01	0.09	6.0	0.022	1.04	3.6	8	0.36	8.48	39	130.4		
Certified Reference Material:																													
STD OREAS 601			3.77	0.07	0.17	25.5	358	281.6	15.5	<0.001	1.10	21.11	1.80	11.7	2.60	36.1	<0.01	15.36	6.5	0.009	0.73	1.90	10.00	1.04	5.96	1285	27.0		
True Value STD OREAS 601			3.80	0.07	<1	24.1	360	283.0	16.0	<1	1.04	21.10	1.83	12.3	2.61	36.2	0.099	15.40	6.7	0.010	0.74	1.94	9.24	1.06	5.87	1293	26.7		
% Difference			-0.8	0.0		5.8	-0.6	-0.5	-3.1		5.8	0.0	-1.6	-4.9	-0.4	-0.3		-0.3	-3.0	-12.6	-1.4	-2.1	8.2	-1.9	1.5	-0.6	1.1		
Tolerance (%)			0.95	IND	IND	3.80	40.0	16.0	1.3	NR	0.06	2.30	0.19	1.1	0.21	2.1	NR	1.80	0.42	IND	0.08	0.19	1.42	0.15	0.40	47.0	2.1		
Method Blank:																													
Method Blank			<0.05	<0.01	<0.05	<0.2	<10	<0.2	<0.1	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	<0.2	<0.01	<0.01	<0.2	<0.005	<0.02	<0.05	<1	<0.05	<0.05	<1	<0.5		

CERTIFICATE OF ANALYSIS - SINGLE ADDITION NAG RESULTS (EGi Method)

PAGE: 5 of 9
GLOBAL PROJECT NO: 1956 (B9)
CLIENT: First Mining Gold Corp.
PROJECT NAME: Springpole
PROJECT NO: ONS2104
REPORT VERSION: 3

S. No:	Sample ID	Pulp Sample Weight (g)	Vol. of 15% H ₂ O ₂ (mL)	NAG pH (pH Units)	NaOH to pH 4.5 (mL)	NaOH to pH 7.0 (mL)	NaOH Conc. (N)	NAG Acidity pH 4.5 (kg H ₂ SO ₄ /tonne)	NAG Acidity pH 7.0 (kg H ₂ SO ₄ /tonne)	% RPD		
										to pH 4.5	to pH 7.0	Acceptance Criteria
2	M112010	2.5	250	7.99	0.00	0.00	0.1	0.0	0.0			
8	M112065	2.5	250	7.86	0.00	0.00	0.1	0.0	0.0			
11	M112068	2.5	250	8.34	0.00	0.00	0.1	0.0	0.0			
14	M112086	2.5	250	7.95	0.00	0.00	0.1	0.0	0.0			
15	M112089	2.5	250	8.27	0.00	0.00	0.1	0.0	0.0			
17	M112105	2.5	250	8.12	0.00	0.00	0.1	0.0	0.0			
20	M112119	2.5	250	8.04	0.00	0.00	0.1	0.0	0.0			
23	M112133	2.5	250	8.09	0.00	0.00	0.1	0.0	0.0			
28	M112163	2.5	250	8.14	0.00	0.00	0.1	0.0	0.0			
QAQC:												
Replicates:												
28	M112163	2.5	250	8.14	0.00	0.00	0.1	0.0	0.0	0%	0%	10%
28 R	M112163 (Rep)	2.5	250	8.20	0.00	0.00	0.1	0.0	0.0			
Method Blank Analysis:												
Method Blank (15% H ₂ O ₂ Solution)		N/A	250	5.45	0.00	8.40	0.1					
GLOBAL SOP NO:		ARD-017										

NOTES:

Date of Analysis: Aug 10 - 12, 2021

pH (pH Units) of DI water used to prepare 15% H₂O₂: 5.60

EC (µS/cm) of DI water used to prepare 15% H₂O₂: 0.54

pH (pH Units) of 15% H₂O₂ (buffered with 0.5 N NaOH): 5.45

EC (µS/cm) of 15% H₂O₂ (buffered with 0.5 N NaOH): 13.50

Solid:Liquid ratio used: 1:100; 2.5 g Pulp Sample: 250 mL 15% H₂O₂.

pH measurement of 15% H₂O₂ solution was conducted at room temperature & buffered with 0.5N NaOH solution to ensure a pH between 4 and 7.

NAG pH & method blank pH measurements were taken after digesting with peroxide solution and making up the solution to its original volume of 250 mL with DI water.

On client's request the NAG procedure is repeated using 1 g of pulp sample when the NAG value for pH 4.5 exceeds 25 kg H₂SO₄ per tonne.

ABBREVIATIONS:

R = Replicate (i.e. using a pulp sample from the same bag).

D = Duplicate (i.e. client sample is processed to produced a 2nd pulp bag & analyzed as a duplicate).

RPD = Relative Percent Difference.

Calc. = Calculation

REFERENCE:

Egi - Environmental Geochemistry International; Single Addition Net Acid Generation (NAG) Test Procedure; Miller et al; Revised Dec. 2006; Page 2 to 4.

CERTIFICATE OF ANALYSIS - SINGLE ADDITION NAG EXTRACT RESULTS

PAGE: 6 of 9



GLOBAL PROJECT NO: 1956 (B9)

CLIENT: First Mining Gold Corp.

PROJECT NAME: Springpole

PROJECT NO: ONS2104

REPORT VERSION: 3

Parameter	Method	Unit	RDL	2	28	Method Blank
				M112010	M112163	
Weight of pulp sample used	Weighing Scale	g	0.01	2.5	2.5	N/A
Volume of 15% H ₂ O ₂ used	Graduated Cylinder	mL	0.50	250	250	250
On filtered samples (using 0.45 µm filter paper):						
pH	Meter	pH units	0.01			
EC	Meter	mV	1.0			
Acidity (to pH 8.3)	Titration	mg CaCO ₃ /L	0.5			
Total Alkalinity (to pH 4.5)	Titration	mg CaCO ₃ /L	0.5			
Sulphate	Colourimetry	mg/L	0.5			
Phosphorus Dissolved	IC	mg/L	0.0050			
Dissolved Metals Analysis by ICP-MS:						
Dissolved Hardness (CaCO ₃)	ICP-MS	mg/L	0.5			
Aluminum Dissolved	ICP-MS	mg/L	0.001			
Antimony Dissolved	ICP-MS	mg/L	0.0001			
Arsenic Dissolved	ICP-MS	mg/L	0.0002			
Barium Dissolved	ICP-MS	mg/L	0.0002			
Beryllium Dissolved	ICP-MS	mg/L	0.0001			
Bismuth Dissolved	ICP-MS	mg/L	0.0001			
Boron Dissolved	ICP-MS	mg/L	0.01			
Cadmium Dissolved	ICP-MS	mg/L	0.00001			
Calcium Dissolved	ICP-MS	mg/L	0.05			
Chromium Dissolved	ICP-MS	mg/L	0.0005			
Cobalt Dissolved	ICP-MS	mg/L	0.0001			
Copper Dissolved	ICP-MS	mg/L	0.0005			
Iron Dissolved	ICP-MS	mg/L	0.02			
Lead Dissolved	ICP-MS	mg/L	0.0005			
Lithium Dissolved	ICP-MS	mg/L	0.0005			
Magnesium Dissolved	ICP-MS	mg/L	0.05			
Manganese Dissolved	ICP-MS	mg/L	0.0002			
Mercury Dissolved	ICP-MS	mg/L	0.0005			
Molybdenum Dissolved	ICP-MS	mg/L	0.0005			
Nickel Dissolved	ICP-MS	mg/L	0.0005			
Phosphorus Dissolved	ICP-MS	mg/L	0.05			
Potassium Dissolved	ICP-MS	mg/L	0.05			
Selenium Dissolved	ICP-MS	mg/L	0.0005			
Silicon Dissolved	ICP-MS	mg/L	0.05			
Silver Dissolved	ICP-MS	mg/L	0.00008			
Sodium Dissolved	ICP-MS	mg/L	0.02			
Strontium Dissolved	ICP-MS	mg/L	0.0002			
Sulphur Dissolved	ICP-MS	mg/L	0.5			
Tellurium Dissolved	ICP-MS	mg/L	0.0002			
Thallium Dissolved	ICP-MS	mg/L	0.00005			
Thorium Dissolved	ICP-MS	mg/L	0.0001			
Tin Dissolved	ICP-MS	mg/L	0.0005			
Titanium Dissolved	ICP-MS	mg/L	0.0005			
Tungsten Dissolved	ICP-MS	mg/L	0.0001			
Uranium Dissolved	ICP-MS	mg/L	0.00005			
Vanadium Dissolved	ICP-MS	mg/L	0.001			
Zinc Dissolved	ICP-MS	mg/L	0.001			
Zirconium Dissolved	ICP-MS	mg/L	0.0001			
Ion Balance:						
Major Anions	Calc.	meq/L		0.00	0.00	
Major Cations	Calc.	meq/L		1000.00	1000.00	
Difference	Calc.	meq/L		1000.00	1000.00	
Balance (%)	Calc.	%		100.0%	100.0%	
NAG Extract ID:				2872112	2872113	2872127

NOTES:

Job No:

Date of Analysis: August 31, 2021

All sample reacted slowly to completion.

pH (pH Units) of DI water used to prepare 15% H₂O₂: 5.64

EC (µS/cm) of DI water used to prepare 15% H₂O₂: 0.27

pH (pH Units) of 15% H₂O₂ (buffered with 0.5 N NaOH): 5.54

EC (µS/cm) of 15% H₂O₂ (buffered with 0.5 N NaOH): 8.1

Solid:Liquid ratio used: 1:100; 2.5 g Pulp Sample: 250 mL 15% H₂O₂.

pH measurement of 15% H₂O₂ solution was conducted at room temperature & buffered with 0.5N NaOH solution to ensure a pH between 4 and 7.

NAG pH & method blank pH measurements were taken after digestion with peroxide solution was completed - and volume was made up to original 250 mL with DI water.

On client's request the NAG procedure is repeated using 1 g of pulp sample when the NAG value for pH 4.5 exceeds 25 kg H₂SO₄ per tonne.

ABBREVIATIONS:

R / Rep = Replicate (which involves the analysis of the same NAG extract aliquot).

D / Dup = Duplicate (which involves the analysis of a separate NAG extract, produced by digesting another split of the pulp sample).

EC = Electrical Conductivity

ORP = Oxidation Reduction Potential

RDL = Reportable Detection Limit.

SIE = Selective Ion Electrode

IC = Ion Chromatography

Calc. = Calculation

REFERENCE:

Egi - Environmental Geochemistry International; Single Addition Net Acid Generation (NAG) Test Procedure; Miller et al; Revised Dec. 2006; Page 2 to 4.

EQL = Estimated Quantitation Limits
 PQL = Practical Quantitation Limits
 UCL = Upper Control Limit
 LCL = Lower Control Limit
 BLK = Blank
 BS = Blank Spike
 MS = Matrix Spike
 DUP = Duplicate
 SRM = Standard Reference Materials

REFERENCE:
 Prediction Manual for Drainage Chemistry from Sulphidic Geologic Material, MEND Report 1.20.1; Version 0 - Dec. 2009. Section 11.5; P 11 (8-9).
Extraction Method used: Using gyratory shaker for 24 h ($\pm$ 2 h; gentle agitation).
Liquid: Solid ratio used: 3: 1; L: S; 750 mL DI H₂O: 250 g of homogenized as received material.

CERTIFICATE OF ANALYSIS • MEND-SFE QA/QC RESULTS



PAGE: 9 of 9
 GLOBAL PROJECT NO: 1956 (B9)
 CLIENT: First Mining Gold Corp.
 PROJECT NAME: Springpole
 PROJECT NO: ONS2104
 REPORT VERSION: 3

Sulphate:

Certified Reference Material:	Parameter: Sulphate	% Recovery	Matrix Spike %	Units	QC Limits (%)
STD Mineral Water (28.5 mg/L)	27.90	97.9%		%	80 - 120
Spiked Blank (19.61 mg/L)	22.20		113.2%	%	80 - 120

Dissolved Metals by ICP-MS:

Sample Code	Parameter	Result	Result Units	Total or Filtered	Method Type	Method Name	Date Analyzed	EQL	EQL Units	UCL	LCL
21H2282_B1H2309-BLK1	Aluminum dissolved	<0.0010	mg/L	F	metals	EPA 6020B	24-Aug-21	0.001	mg/L		
21H2282_B1H2309-BLK1	Antimony dissolved	<0.000050	mg/L	F	metals	EPA 6020B	24-Aug-21	0.00005	mg/L		
21H2282_B1H2309-BLK1	Arsenic dissolved	<0.000050	mg/L	F	metals	EPA 6020B	24-Aug-21	0.00005	mg/L		
21H2282_B1H2309-BLK1	Barium dissolved	<0.00010	mg/L	F	metals	EPA 6020B	24-Aug-21	0.0001	mg/L		
21H2282_B1H2309-BLK1	Beryllium dissolved	<0.000010	mg/L	F	metals	EPA 6020B	24-Aug-21	0.00001	mg/L		
21H2282_B1H2309-BLK1	Bismuth dissolved	<0.000010	mg/L	F	metals	EPA 6020B	24-Aug-21	0.00001	mg/L		
21H2282_B1H2309-BLK1	Boron dissolved	<0.0020	mg/L	F	metals	EPA 6020B	24-Aug-21	0.002	mg/L		
21H2282_B1H2309-BLK1	Cadmium dissolved	<0.0000020	mg/L	F	metals	EPA 6020B	24-Aug-21	0.000002	mg/L		
21H2282_B1H2309-BLK1	Calcium dissolved	<0.040	mg/L	F	metals	EPA 6020B	24-Aug-21	0.04	mg/L		
21H2282_B1H2309-BLK1	Chromium dissolved	<0.00010	mg/L	F	metals	EPA 6020B	24-Aug-21	0.0001	mg/L		
21H2282_B1H2309-BLK1	Cobalt dissolved	<0.0000050	mg/L	F	metals	EPA 6020B	24-Aug-21	0.000005	mg/L		
21H2282_B1H2309-BLK1	Copper dissolved	<0.00010	mg/L	F	metals	EPA 6020B	24-Aug-21	0.0001	mg/L		
21H2282_B1H2309-BLK1	Iron dissolved	<0.0020	mg/L	F	metals	EPA 6020B	24-Aug-21	0.002	mg/L		
21H2282_B1H2309-BLK1	Lead dissolved	<0.000050	mg/L	F	metals	EPA 6020B	24-Aug-21	0.00005	mg/L		
21H2282_B1H2309-BLK1	Lithium dissolved	<0.000050	mg/L	F	metals	EPA 6020B	24-Aug-21	0.00005	mg/L		
21H2282_B1H2309-BLK1	Magnesium dissolved	<0.0050	mg/L	F	metals	EPA 6020B	24-Aug-21	0.005	mg/L		
21H2282_B1H2309-BLK1	Manganese dissolved	<0.000050	mg/L	F	metals	EPA 6020B	24-Aug-21	0.00005	mg/L		
21H2282_B1H2309-BLK1	Molybdenum dissolved	<0.000010	mg/L	F	metals	EPA 6020B	24-Aug-21	0.00001	mg/L		
21H2282_B1H2309-BLK1	Nickel dissolved	<0.000040	mg/L	F	metals	EPA 6020B	24-Aug-21	0.00004	mg/L		
21H2282_B1H2309-BLK1	Phosphorus dissolved	<0.010	mg/L	F	metals	EPA 6020B	24-Aug-21	0.01	mg/L		
21H2282_B1H2309-BLK1	Potassium dissolved	<0.010	mg/L	F	metals	EPA 6020B	24-Aug-21	0.01	mg/L		
21H2282_B1H2309-BLK1	Selenium dissolved	<0.00010	mg/L	F	metals	EPA 6020B	24-Aug-21	0.0001	mg/L		
21H2282_B1H2309-BLK1	Silicon dissolved	<0.10	mg/L	F	metals	EPA 6020B	24-Aug-21	0.1	mg/L		
21H2282_B1H2309-BLK1	Silver dissolved	<0.000010	mg/L	F	metals	EPA 6020B	24-Aug-21	0.00001	mg/L		
21H2282_B1H2309-BLK1	Sodium dissolved	<0.020	mg/L	F	metals	EPA 6020B	24-Aug-21	0.02	mg/L		
21H2282_B1H2309-BLK1	Strontium dissolved	<0.00010	mg/L	F	metals	EPA 6020B	24-Aug-21	0.0001	mg/L		
21H2282_B1H2309-BLK1	Sulfur dissolved	<1.00	mg/L	F	metals	EPA 6020B	24-Aug-21	1	mg/L		
21H2282_B1H2309-BLK1	Tellurium dissolved	<0.000050	mg/L	F	metals	EPA 6020B	24-Aug-21	0.00005	mg/L		
21H2282_B1H2309-BLK1	Thallium dissolved	<0.0000040	mg/L	F	metals	EPA 6020B	24-Aug-21	0.000004	mg/L		
21H2282_B1H2309-BLK1	Thorium dissolved	<0.000010	mg/L	F	metals	EPA 6020B	24-Aug-21	0.00001	mg/L		
21H2282_B1H2309-BLK1	Tin dissolved	<0.000050	mg/L	F	metals	EPA 6020B	24-Aug-21	0.00005	mg/L		
21H2282_B1H2309-BLK1	Titanium dissolved	<0.00020	mg/L	F	metals	EPA 6020B	24-Aug-21	0.0002	mg/L		
21H2282_B1H2309-BLK1	Uranium dissolved	<0.0000010	mg/L	F	metals	EPA 6020B	24-Aug-21	0.000001	mg/L		
21H2282_B1H2309-BLK1	Vanadium dissolved	<0.00020	mg/L	F	metals	EPA 6020B	24-Aug-21	0.0002	mg/L		
21H2282_B1H2309-BLK1	Zinc dissolved	<0.0010	mg/L	F	metals	EPA 6020B	24-Aug-21	0.001	mg/L		
21H2282_B1H2309-BLK1	Zirconium dissolved	<0.000020	mg/L	F	metals	EPA 6020B	24-Aug-21	0.00002	mg/L		
21H2282_B1H2309-BLK1	Tungsten dissolved	<0.20	ug/L	F	metals	EPA 6020B	24-Aug-21	0.2	ug/L		
21H2282_B1H2309-BS1	Aluminum dissolved	108	%	F	metals	EPA 6020B	24-Aug-21	1	%		
21H2282_B1H2309-BS1	Antimony dissolved	95	%	F	metals	EPA 6020B	24-Aug-21	1	%		
21H2282_B1H2309-BS1	Arsenic dissolved	99	%	F	metals	EPA 6020B	24-Aug-21	1	%		
21H2282_B1H2309-BS1	Barium dissolved	96	%	F	metals	EPA 6020B	24-Aug-21	1	%		
21H2282_B1H2309-BS1	Beryllium dissolved	100	%	F	metals	EPA 6020B	24-Aug-21	1	%		
21H2282_B1H2309-BS1	Bismuth dissolved	99	%	F	metals	EPA 6020B	24-Aug-21	1	%		
21H2282_B1H2309-BS1	Boron dissolved	94	%	F	metals	EPA 6020B	24-Aug-21	1	%		
21H2282_B1H2309-BS1	Cadmium dissolved	98	%	F	metals	EPA 6020B	24-Aug-21	1	%		
21H2282_B1H2309-BS1	Calcium dissolved	101	%	F	metals	EPA 6020B	24-Aug-21	1	%		
21H2282_B1H2309-BS1	Chromium dissolved	99	%	F	metals	EPA 6020B	24-Aug-21	1	%		
21H2282_B1H2309-BS1	Cobalt dissolved	100	%	F	metals	EPA 6020B	24-Aug-21	1	%		
21H2282_B1H2309-BS1	Copper dissolved	104	%	F	metals	EPA 6020B	24-Aug-21	1	%		
21H2282_B1H2309-BS1	Iron dissolved	102	%	F	metals	EPA 6020B	24-Aug-21	1	%		
21H2282_B1H2309-BS1	Lead dissolved	110	%	F	metals	EPA 6020B	24-Aug-21	1	%		
21H2282_B1H2309-BS1	Lithium dissolved	99	%	F	metals	EPA 6020B	24-Aug-21	1	%		
21H2282_B1H2309-BS1	Magnesium dissolved	114	%	F	metals	EPA 6020B	24-Aug-21	1	%		
21H2282_B1H2309-BS1	Manganese dissolved	100	%	F	metals	EPA 6020B	24-Aug-21	1	%		
21H2282_B1H2309-BS1	Molybdenum dissolved	95	%	F	metals	EPA 6020B	24-Aug-21	1	%		
21H2282_B1H2309-BS1	Nickel dissolved	102	%	F	metals	EPA 6020B	24-Aug-21	1	%		
21H2282_B1H2309-BS1	Phosphorus dissolved	94	%	F	metals	EPA 6020B	24-Aug-21	1	%		
21H2282_B1H2309-BS1	Potassium dissolved	107	%	F	metals	EPA 6020B	24-Aug-21	1	%		
21H2282_B1H2309-BS1	Selenium dissolved	108	%	F	metals	EPA 6020B	24-Aug-21	1	%		
21H2282_B1H2309-BS1	Silicon dissolved	112	%	F	metals	EPA 6020B	24-Aug-21	1	%		
21H2282_B1H2309-BS1	Silver dissolved	94	%	F	metals	EPA 6020B	24-Aug-21	1	%		
21H2282_B1H2309-BS1	Sodium dissolved	112	%	F	metals	EPA 6020B	24-Aug-21	1	%		
21H2282_B1H2309-BS1	Strontium dissolved	91	%	F	metals	EPA 6020B	24-Aug-21	1	%		
21H2282_B1H2309-BS1	Sulfur dissolved	116	%	F	metals	EPA 6020B	24-Aug-21	1	%		
21H2282_B1H2309-BS1	Tellurium dissolved	99	%	F	metals	EPA 6020B	24-Aug-21	1	%		
21H2282_B1H2309-BS1	Thallium dissolved	96	%	F	metals	EPA 6020B	24-Aug-21	1	%		
21H2282_B1H2309-BS1	Thorium dissolved	95	%	F	metals	EPA 6020B	24-Aug-21	1	%		
21H2282_B1H2309-BS1	Tin dissolved	95	%	F	metals	EPA 6020B	24-Aug-21	1	%		
21H2282_B1H2309-BS1	Titanium dissolved	80	%	F	metals	EPA 6020B	24-Aug-21	1	%		
21H2282_B1H2309-BS1	Tungsten dissolved	96	%	F	metals	EPA 6020B	24-Aug-21	1	%		
21H2282_B1H2309-BS1	Uranium dissolved	97	%	F	metals	EPA 6020B	24-Aug-21	1	%		
21H2282_B1H2309-BS1	Vanadium dissolved	98	%	F	metals	EPA 6020B	24-Aug-21	1	%		

CERTIFICATE OF ANALYSIS • MEND-SFE QA/QC RESULTS

PAGE: 9 of 9
GLOBAL PROJECT NO: 1956 (B9)
CLIENT: First Mining Gold Corp.
PROJECT NAME: Springpole
PROJECT NO: ONS2104
REPORT VERSION: 3

Sulphate:

Certified Reference Material:	Parameter: Sulphate	% Recovery	Matrix Spike %	Units	QC Limits (%)
STD Mineral Water (28.5 mg/L)	27.90	97.9%		%	80 - 120
Spiked Blank (19.61 mg/L)	22.20		113.2%	%	80 - 120

Dissolved Metals by ICP-MS:

Sample Code	Parameter	Result	Result Units	Total or Filtered	Method Type	Method Name	Date Analyzed	EQL	EQL Units	UCL	LCL
21H2282_B1H2309-BS1	Zinc dissolved	116	%	F	metals	EPA 6020B	24-Aug-21	1	%		
21H2282_B1H2309-BS1	Zirconium dissolved	99	%	F	metals	EPA 6020B	24-Aug-21	1	%		
21H2282_B1H2309-SRM1	Aluminum dissolved	115	%	F	metals	EPA 6020B	24-Aug-21	1	%	130	70
21H2282_B1H2309-SRM1	Antimony dissolved	108	%	F	metals	EPA 6020B	24-Aug-21	1	%	130	70
21H2282_B1H2309-SRM1	Arsenic dissolved	115	%	F	metals	EPA 6020B	24-Aug-21	1	%	130	70
21H2282_B1H2309-SRM1	Barium dissolved	105	%	F	metals	EPA 6020B	24-Aug-21	1	%	130	70
21H2282_B1H2309-SRM1	Beryllium dissolved	105	%	F	metals	EPA 6020B	24-Aug-21	1	%	130	70
21H2282_B1H2309-SRM1	Boron dissolved	100	%	F	metals	EPA 6020B	24-Aug-21	1	%	130	70
21H2282_B1H2309-SRM1	Cadmium dissolved	104	%	F	metals	EPA 6020B	24-Aug-21	1	%	130	70
21H2282_B1H2309-SRM1	Calcium dissolved	113	%	F	metals	EPA 6020B	24-Aug-21	1	%	130	70
21H2282_B1H2309-SRM1	Chromium dissolved	108	%	F	metals	EPA 6020B	24-Aug-21	1	%	130	70
21H2282_B1H2309-SRM1	Cobalt dissolved	110	%	F	metals	EPA 6020B	24-Aug-21	1	%	130	70
21H2282_B1H2309-SRM1	Copper dissolved	112	%	F	metals	EPA 6020B	24-Aug-21	1	%	130	70
21H2282_B1H2309-SRM1	Iron dissolved	115	%	F	metals	EPA 6020B	24-Aug-21	1	%	130	70
21H2282_B1H2309-SRM1	Lead dissolved	115	%	F	metals	EPA 6020B	24-Aug-21	1	%	130	70
21H2282_B1H2309-SRM1	Lithium dissolved	104	%	F	metals	EPA 6020B	24-Aug-21	1	%	130	70
21H2282_B1H2309-SRM1	Magnesium dissolved	124	%	F	metals	EPA 6020B	24-Aug-21	1	%	130	70
21H2282_B1H2309-SRM1	Manganese dissolved	107	%	F	metals	EPA 6020B	24-Aug-21	1	%	130	70
21H2282_B1H2309-SRM1	Molybdenum dissolved	106	%	F	metals	EPA 6020B	24-Aug-21	1	%	130	70
21H2282_B1H2309-SRM1	Nickel dissolved	110	%	F	metals	EPA 6020B	24-Aug-21	1	%	130	70
21H2282_B1H2309-SRM1	Phosphorus dissolved	119	%	F	metals	EPA 6020B	24-Aug-21	1	%	130	70
21H2282_B1H2309-SRM1	Potassium dissolved	121	%	F	metals	EPA 6020B	24-Aug-21	1	%	130	70
21H2282_B1H2309-SRM1	Selenium dissolved	112	%	F	metals	EPA 6020B	24-Aug-21	1	%	130	70
21H2282_B1H2309-SRM1	Sodium dissolved	124	%	F	metals	EPA 6020B	24-Aug-21	1	%	130	70
21H2282_B1H2309-SRM1	Strontium dissolved	98	%	F	metals	EPA 6020B	24-Aug-21	1	%	130	70
21H2282_B1H2309-SRM1	Thallium dissolved	100	%	F	metals	EPA 6020B	24-Aug-21	1	%	130	70
21H2282_B1H2309-SRM1	Uranium dissolved	97	%	F	metals	EPA 6020B	24-Aug-21	1	%	130	70
21H2282_B1H2309-SRM1	Vanadium dissolved	105	%	F	metals	EPA 6020B	24-Aug-21	1	%	130	70
21H2282_B1H2414-BLK2	Zinc dissolved	118	%	F	metals	EPA 6020B	24-Aug-21	1	%		
21H2282_B1H2414-BLK3	Phosphorus Total Dissol	<0.0050	mg/L	F	General Parameters	SM 4500-P F (2017)	25-Aug-21	0.005	mg/L		
21H2282_B1H2414-BS2	Phosphorus Total Dissol	<0.0050	mg/L	F	General Parameters	SM 4500-P F (2017)	25-Aug-21	0.005	mg/L	115	85
21H2282_B1H2414-BS3	Phosphorus Total Dissol	110	%	F	General Parameters	SM 4500-P F (2017)	25-Aug-21	1	%	115	85
21H2282_B1H2515-BLK1	Phosphorus Total Dissol	110	%	F	General Parameters	SM 4500-P F (2017)	25-Aug-21	1	%		
21H2282_B1H2515-BLK2	Mercury dissolved	<0.000010	mg/L	F	metals	EPA 245.7*	25-Aug-21	0.00001	mg/L		
21H2282_B1H2515-SRM1	Mercury dissolved	<0.000010	mg/L	F	metals	EPA 245.7*	25-Aug-21	0.00001	mg/L	130	70
21H2282_B1H2515-SRM2	Mercury dissolved	121	%	F	metals	EPA 245.7*	25-Aug-21	1	%	130	70
21H2282_B1H2515-SRM2	Mercury dissolved	116	%	F	metals	EPA 245.7*	25-Aug-21	1	%		

NOTES:

Job No: 21H2282

Abbreviations & Descriptions:

Method Blank (BLK): A blank sample that undergoes sample processing identical to that carried out for the test samples.

Method Blank results are used to assess contamination from the laboratory environment and reagents.

Duplicate (Dup): An additional or second portion of a randomly selected sample in the analytical run carried through the entire analytical process.

Duplicates provide a measure of the analytical method's precision (reproducibility).

Blank Spike (BS): A sample of known concentration which undergoes processing identical to that carried out for test samples, also referred to as a laboratory control sample (LCS).

Blank spikes provide a measure of the analytical method's accuracy.

Matrix Spike (MS): A second aliquot of sample is fortified with a known concentration of target analytes and carried through the entire analytical process.

Matrix spikes evaluate potential matrix effects that may affect the analyte recovery.

Standard Reference Material (SRM): A homogenous material of similar matrix to the samples, certified for the parameter(s) listed.

Reference Materials ensure that the analytical process is adequate to achieve acceptable recoveries of the parameter(s) tested.

Each QC type is analyzed at a 5-10% frequency, i.e. one blank/duplicate/spike for every 10-20 samples.

For all types of QC, specified recovery (% Rec) and relative percent difference (RPD) limits are derived from long-term method performance averages and/or prescribed by the reference method.

EQL = Estimated Quantitation Limits
PQL = Practical Quantitation Limits
UCL = Upper Control Limit
LCL = Lower Control Limit
BLK = Blank
BS = Blank Spike
MS = Matrix Spike
DUP = Duplicate
SRM = Standard Reference Materials

QUANTITATIVE PHASE ANALYSIS OF FIFTEEN POWDER SAMPLES USING THE RIETVELD METHOD AND X-RAY POWDER DIFFRACTION DATA.

**Project: 1956 (B8)
COC/PO #: GL21-770**

**Ivy Rajan - Prab Bhatia
Global ARD Testing Services Inc.
6891 Antrim Avenue
Burnaby, BC V5J 4M5**

**Jacob Kabel, B.Sc.
Edith Czech, M.Sc.
Jenny Lai, B.Sc.
Lan Kato, B.A.**

**Dept. of Earth, Ocean & Atmospheric Sciences
The University of British Columbia
6339 Stores Road
Vancouver, BC V6T 1Z4**

September 15, 2021

EXPERIMENTAL METHOD

The fifteen samples of **Project 1956 (B8)** were reduced to the optimum grain-size range for quantitative X-ray analysis ($<10\ \mu\text{m}$) by grinding under ethanol in a vibratory McCrone XRD Mill (Retsch GmbH, Germany) for 10 minutes. Continuous-scan X-ray powder-diffraction data were collected over a range $3\text{--}80^\circ 2\theta$ with $\text{CoK}\alpha$ radiation on a Bruker D8 Advance Bragg-Brentano diffractometer equipped with an Fe filter foil, $0.6\ \text{mm}$ (0.3°) divergence slit, incident- and diffracted-beam Soller slits and a LynxEye-XE detector. The long fine-focus Co X-ray tube was operated at 35 kV and 40 mA, using a take-off angle of 6° .

RESULTS

The X-ray diffractograms were analyzed using the International Centre for Diffraction Database PDF-4+ and Search-Match software by Bruker. X-ray powder-diffraction data of the samples were refined with Rietveld program Topas 4.2 (Bruker AXS). The results of quantitative phase analysis by Rietveld refinements are given in Table 1 (separate file, ***Global ARD Testing Results Sept 15 2021 – Proj 1956 (B8) - 15 samples.xlsx***). These amounts represent the relative amounts of crystalline phases normalized to 100%. The Rietveld refinement plots are shown in Figures 1 – 15. Ideal formulae for the minerals are given in Table 2.

The X-ray diffraction patterns of samples #1, #3, #5 and #14 show humps (marked with vertical lines) that were fitted with calculated peaks and are due to the presence of some unknown clays and/or amorphous/nanoscale material which cannot be analyzed. The results should be considered approximate.

Table 2. Ideal formulae of phases present in *Project: 1956 (B8)*

Mineral	Ideal Formula
Ankerite-Dolomite	$\text{Ca}(\text{Fe}^{2+}, \text{Mg}, \text{Mn})(\text{CO}_3)_2 - \text{CaMg}(\text{CO}_3)_2$
Biotite	$\text{K}(\text{Mg}, \text{Fe}^{2+})_3\text{AlSi}_3\text{O}_{10}(\text{OH})_2$
Calcite	CaCO_3
Calcite, magnesian	$(\text{Ca}, \text{Mg})\text{CO}_3$
Clinochlore	$(\text{Mg}, \text{Fe}^{2+})_5\text{Al}(\text{Si}_3\text{Al})\text{O}_{10}(\text{OH})_8$
Fluorite	CaF_2
Illite-Muscovite 2M1	$\text{K}_{0.65}\text{Al}_{2.0}\text{Al}_{0.65}\text{Si}_{3.35}\text{O}_{10}(\text{OH})_2 - \text{KAl}_2\text{AlSi}_3\text{O}_{10}(\text{OH})_2$
Ilmenite	$\text{Fe}^{2+}\text{TiO}_3$
Kaolinite	$\text{Al}_2\text{Si}_2\text{O}_5(\text{OH})_4$
K-feldspar (Microcline)	KAlSi_3O_8
Magnetite	$\text{Fe}^{2+}\text{Fe}^{3+}_2\text{O}_4$
Plagioclase (Albite)	$\text{NaAlSi}_3\text{O}_8 - \text{CaAl}_2\text{Si}_2\text{O}_8$
Pyrite	FeS_2
Quartz	SiO_2
Rutile	TiO_2
Siderite	$\text{Fe}^{2+}\text{CO}_3$

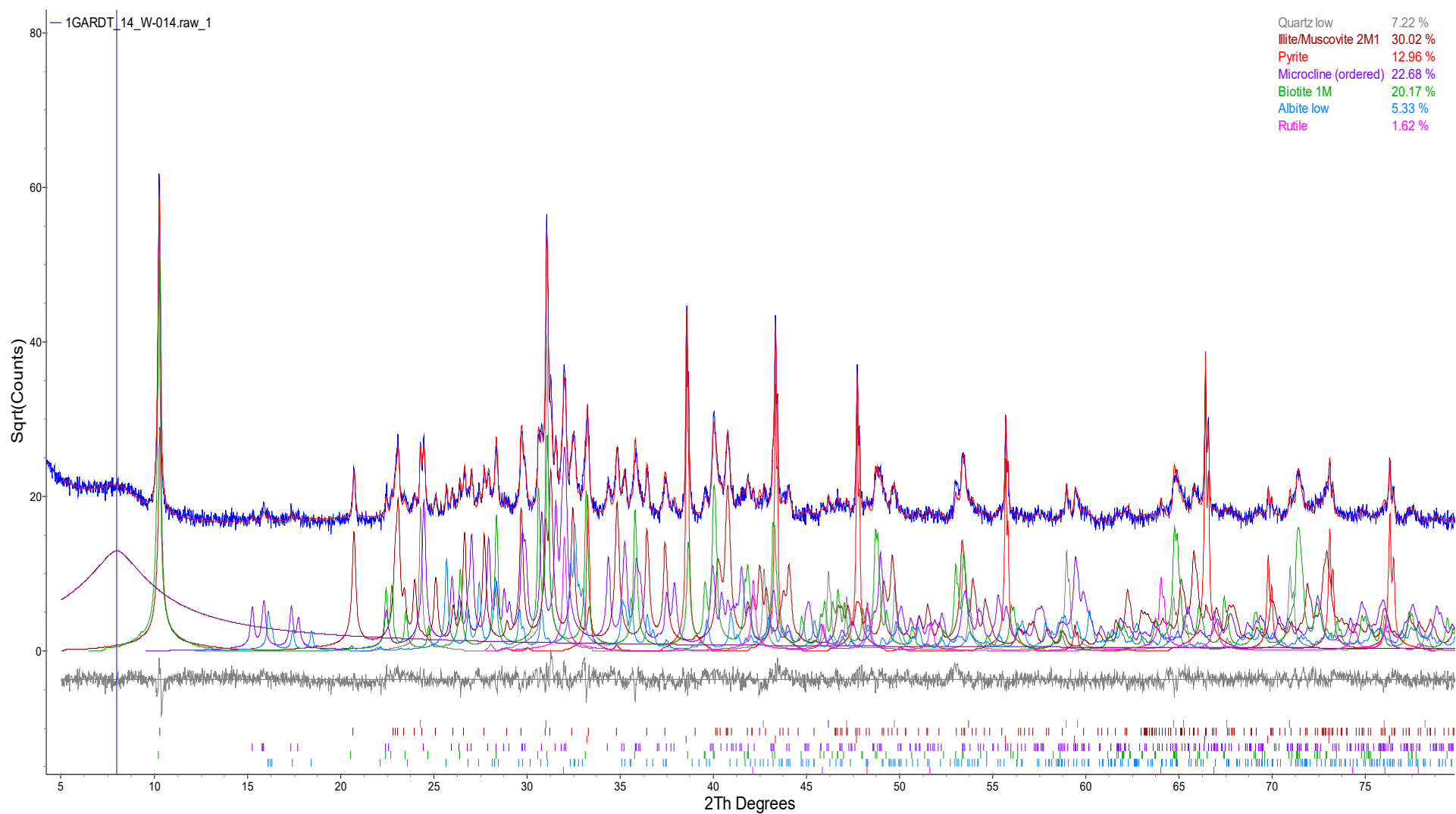


Figure 1. Rietveld refinement plot of sample **Global ARD Testing Services #14: W-014** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below - difference between observed and calculated intensities; vertical bars - positions of all Bragg reflections; vertical blue lines - positions of peaks phases). Coloured lines are individual diffraction patterns of all phases.

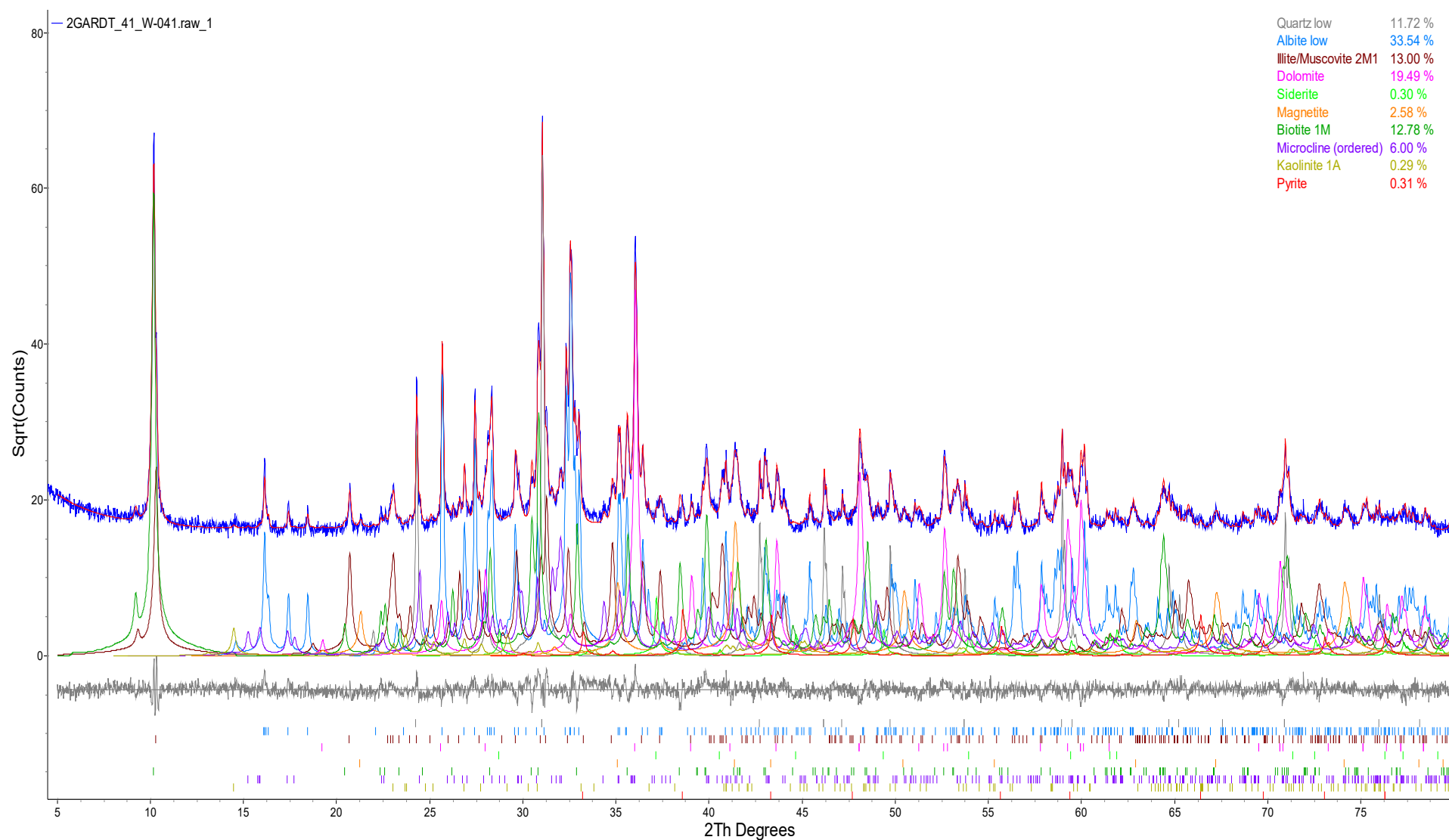


Figure 2. Rietveld refinement plot of sample **Global ARD Testing Services #41: W-041** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below - difference between observed and calculated intensities; vertical bars - positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

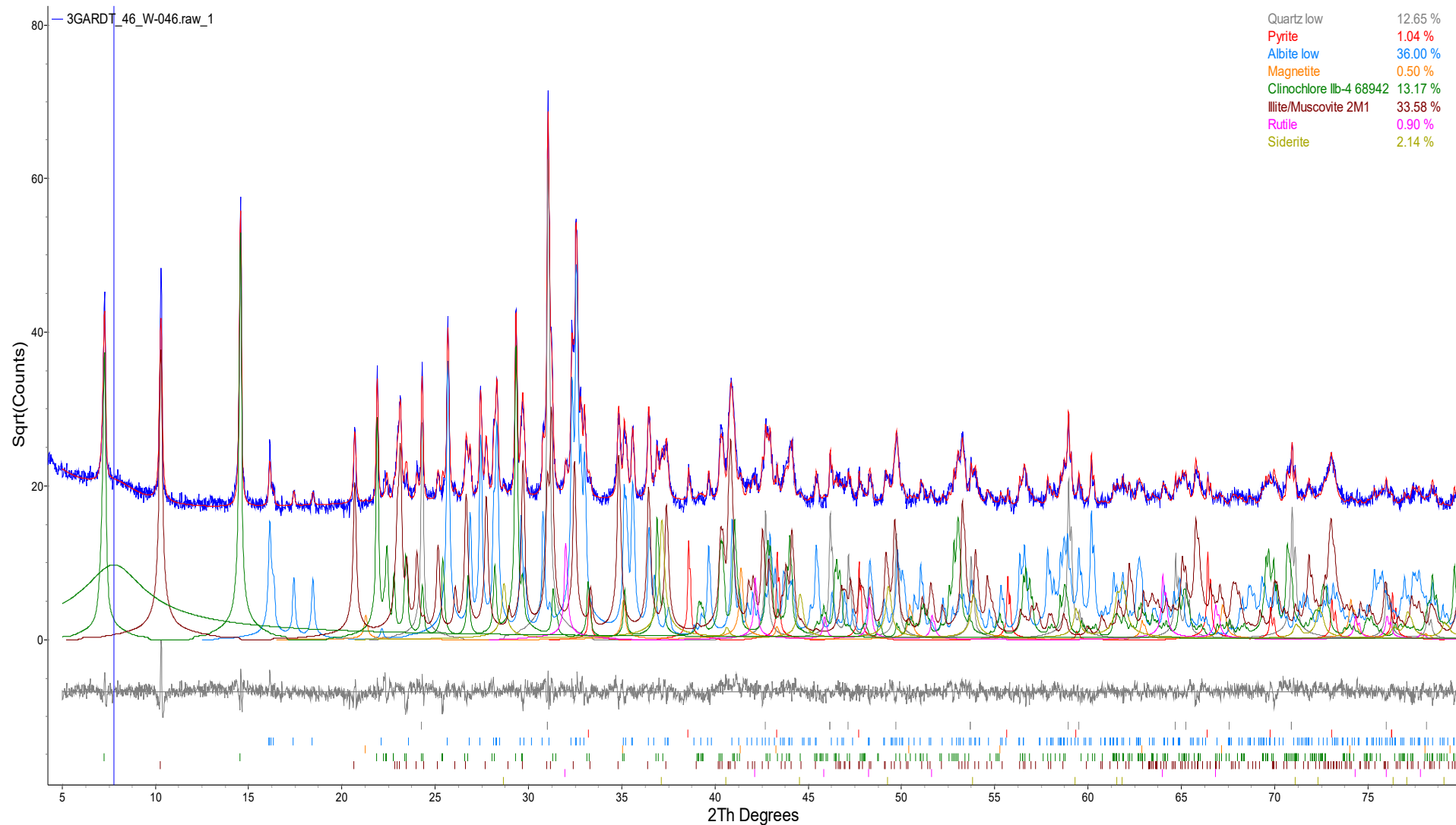


Figure 3. Rietveld refinement plot of sample **Global ARD Testing Services #46: W-046** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below - difference between observed and calculated intensities; vertical bars - positions of all Bragg reflections; vertical blue lines - positions of peaks phases). Coloured lines are individual diffraction patterns of all phases.

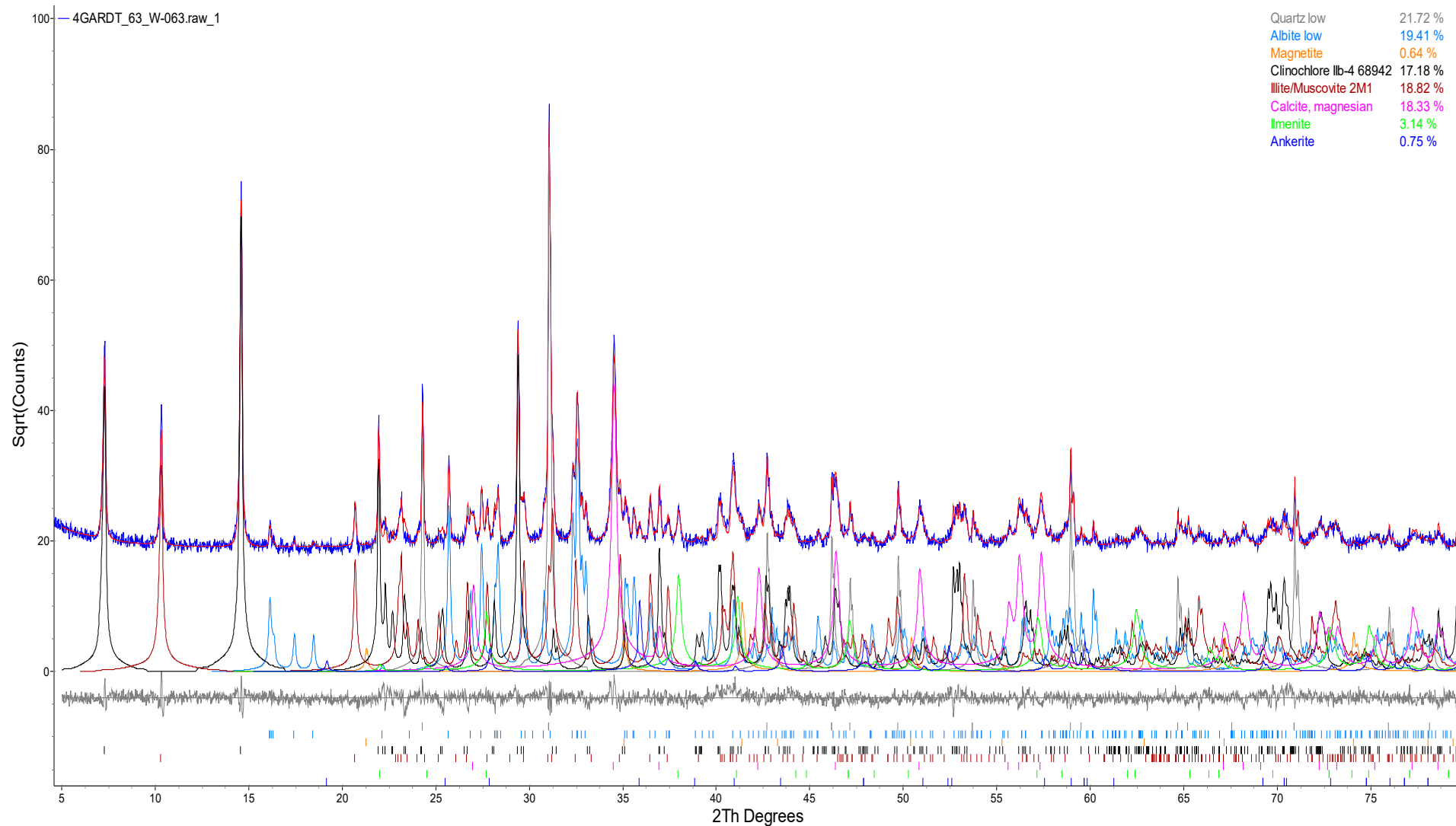


Figure 4. Rietveld refinement plot of sample **Global ARD Testing Services #63: W-063** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below - difference between observed and calculated intensities; vertical bars - positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

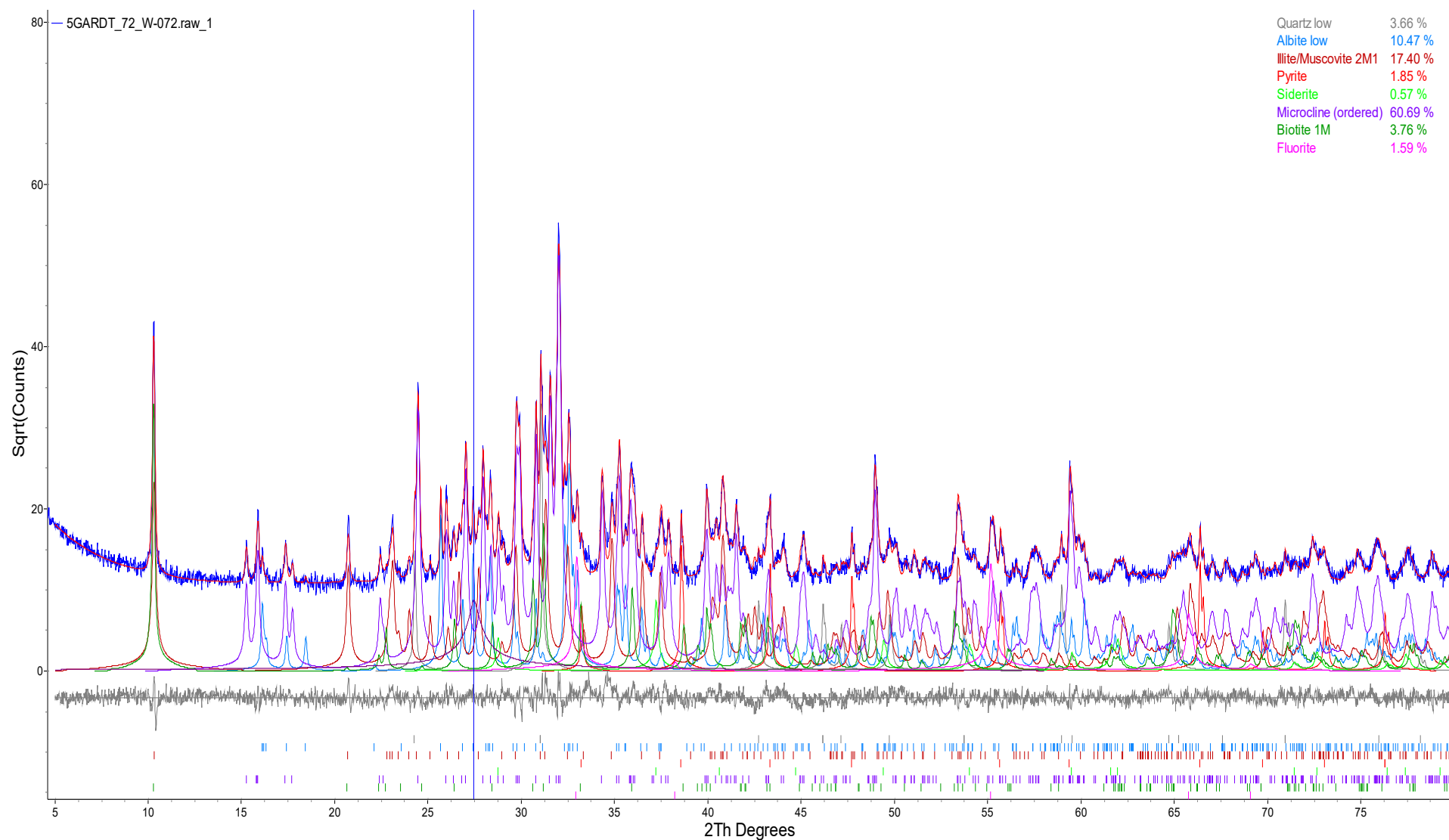


Figure 5. Rietveld refinement plot of sample **Global ARD Testing Services #72: W-072** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below - difference between observed and calculated intensities; vertical bars - positions of all Bragg reflections; vertical blue lines - positions of peaks phases). Coloured lines are individual diffraction patterns of all phases.

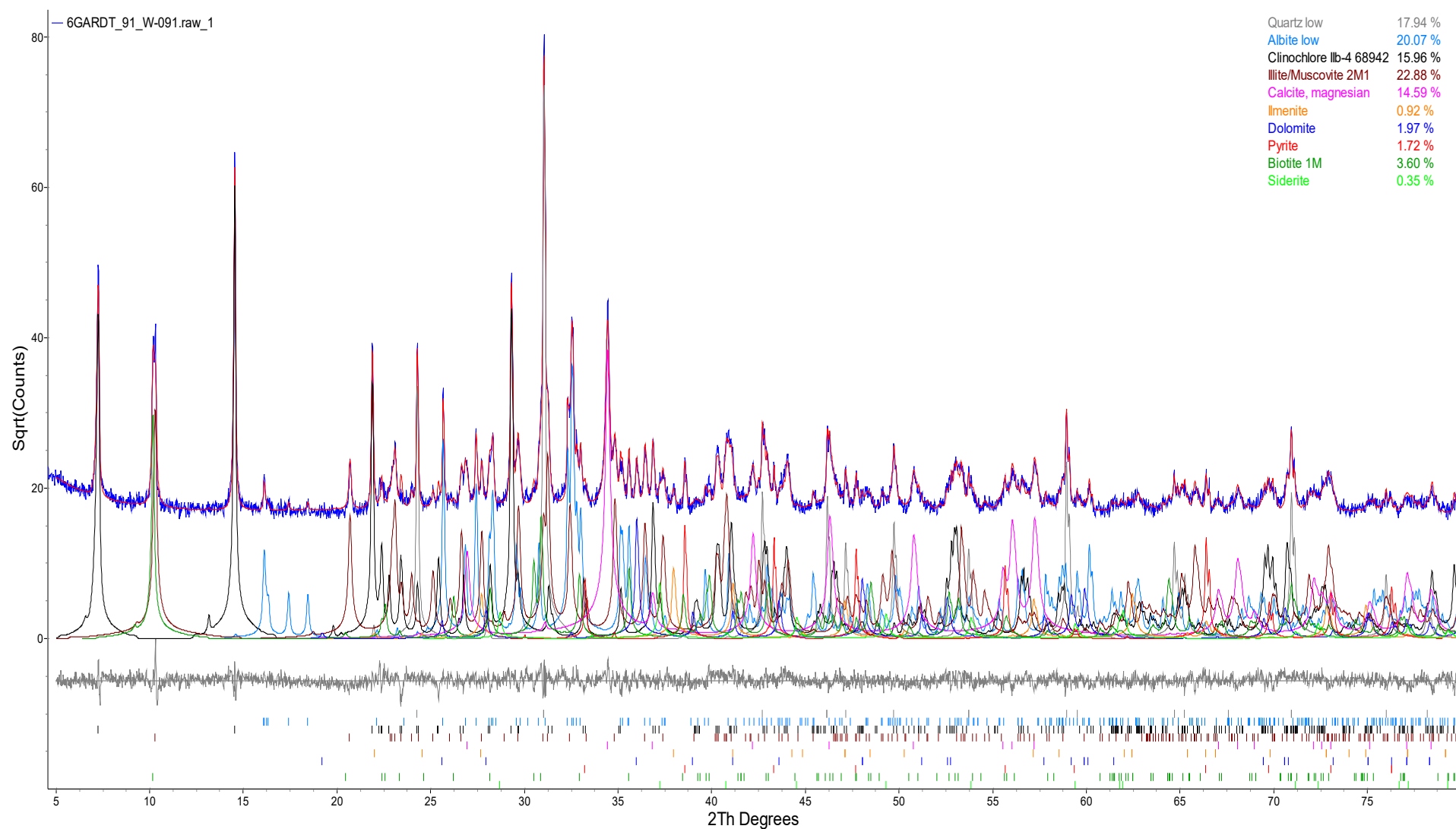


Figure 6. Rietveld refinement plot of sample **Global ARD Testing Services #91: W-091** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below - difference between observed and calculated intensities; vertical bars - positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

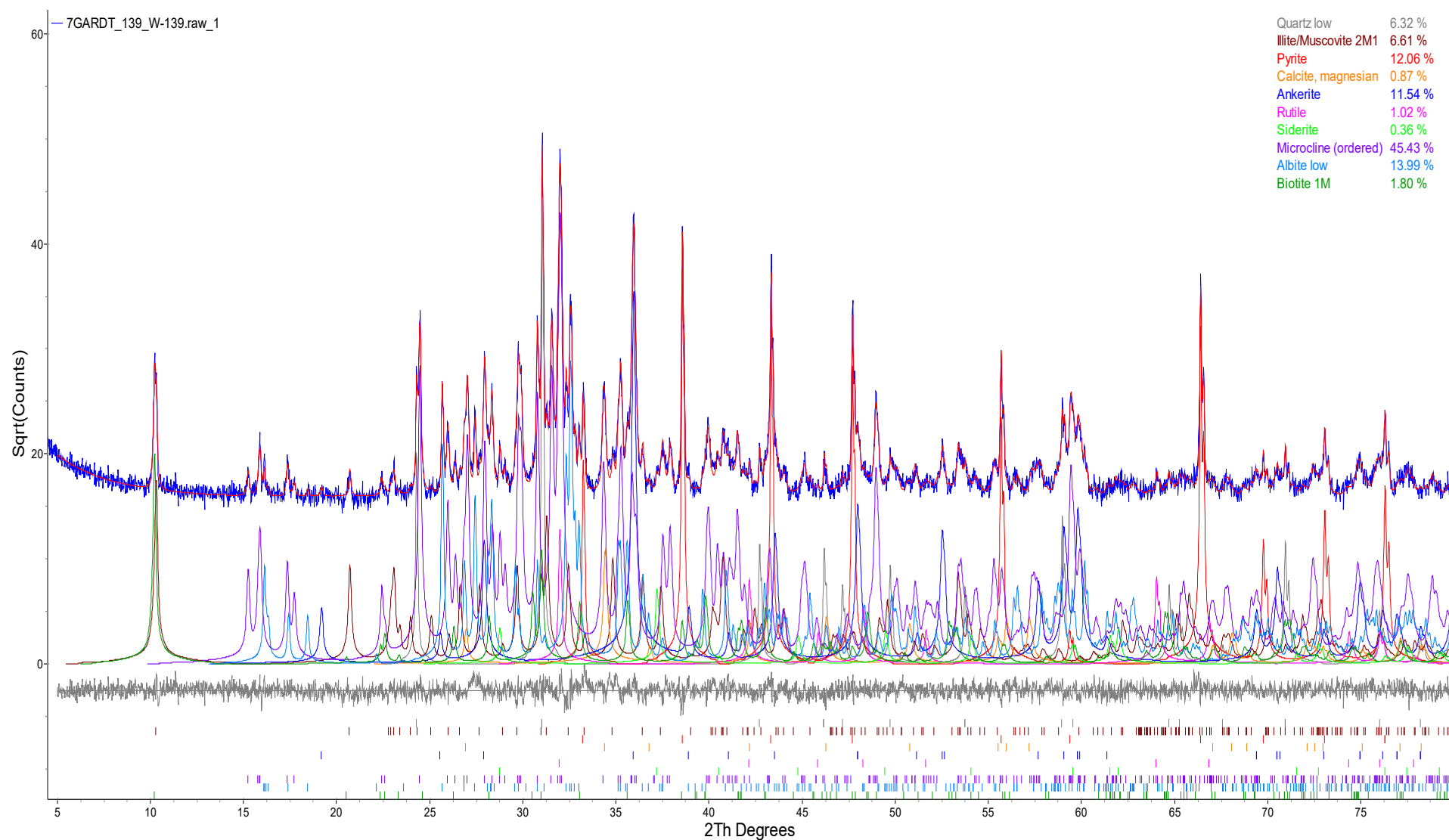


Figure 7. Rietveld refinement plot of sample **Global ARD Testing Services #139: W-139** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below - difference between observed and calculated intensities; vertical bars - positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

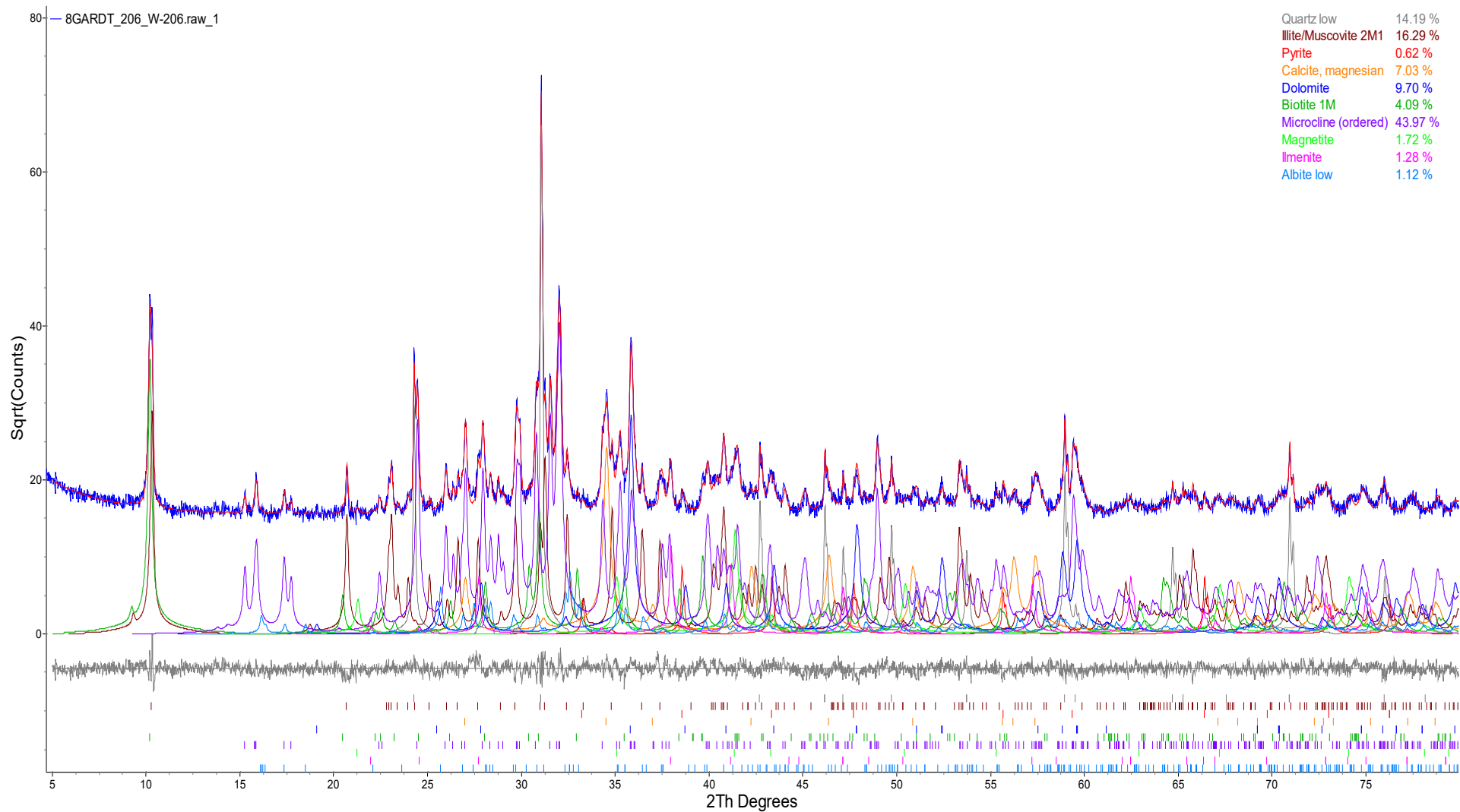


Figure 8. Rietveld refinement plot of sample **Global ARD Testing Services #206: W-206** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below - difference between observed and calculated intensities; vertical bars - positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

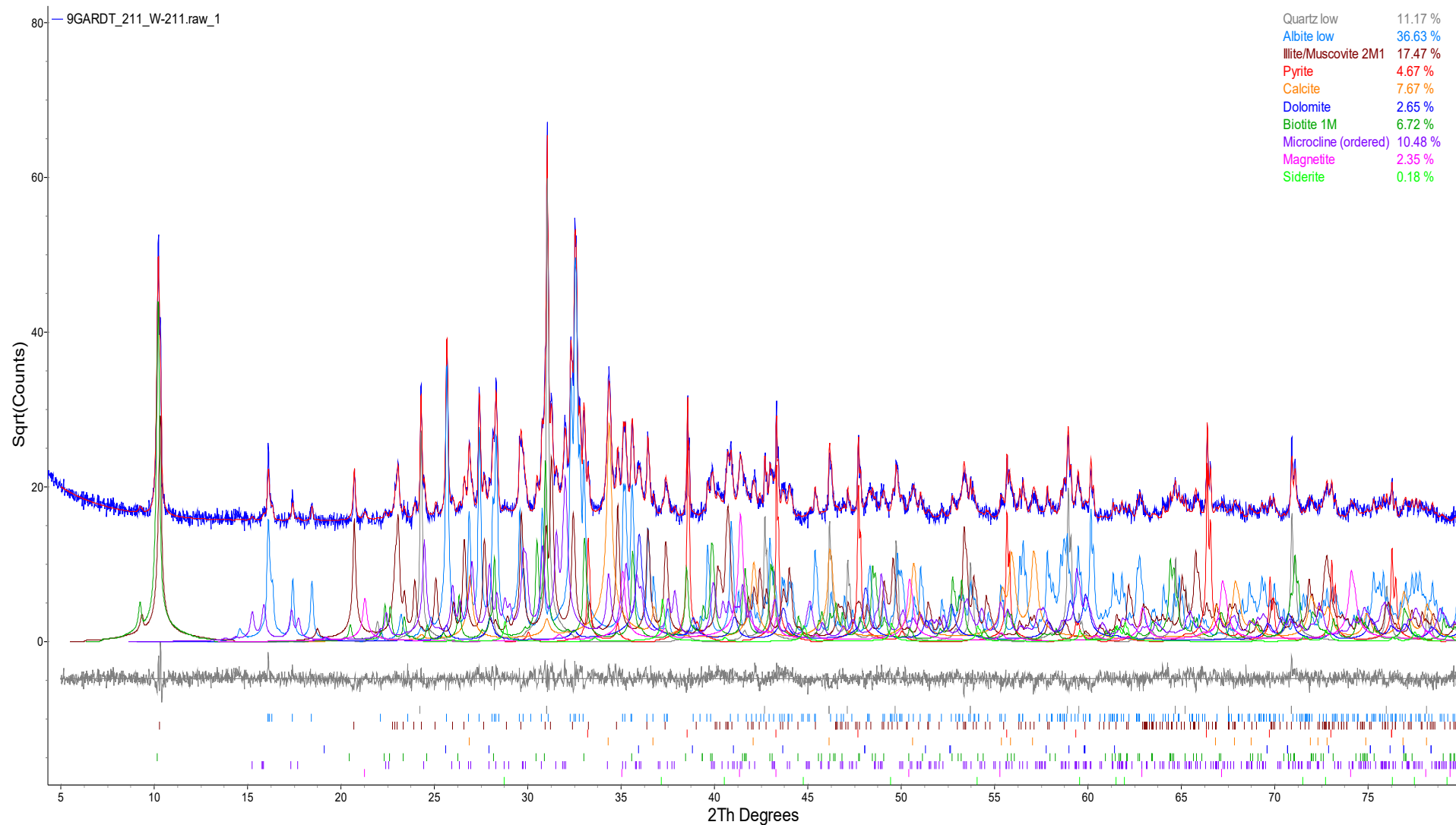


Figure 9. Rietveld refinement plot of sample **Global ARD Testing Services #211: W-211** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below - difference between observed and calculated intensities; vertical bars - positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

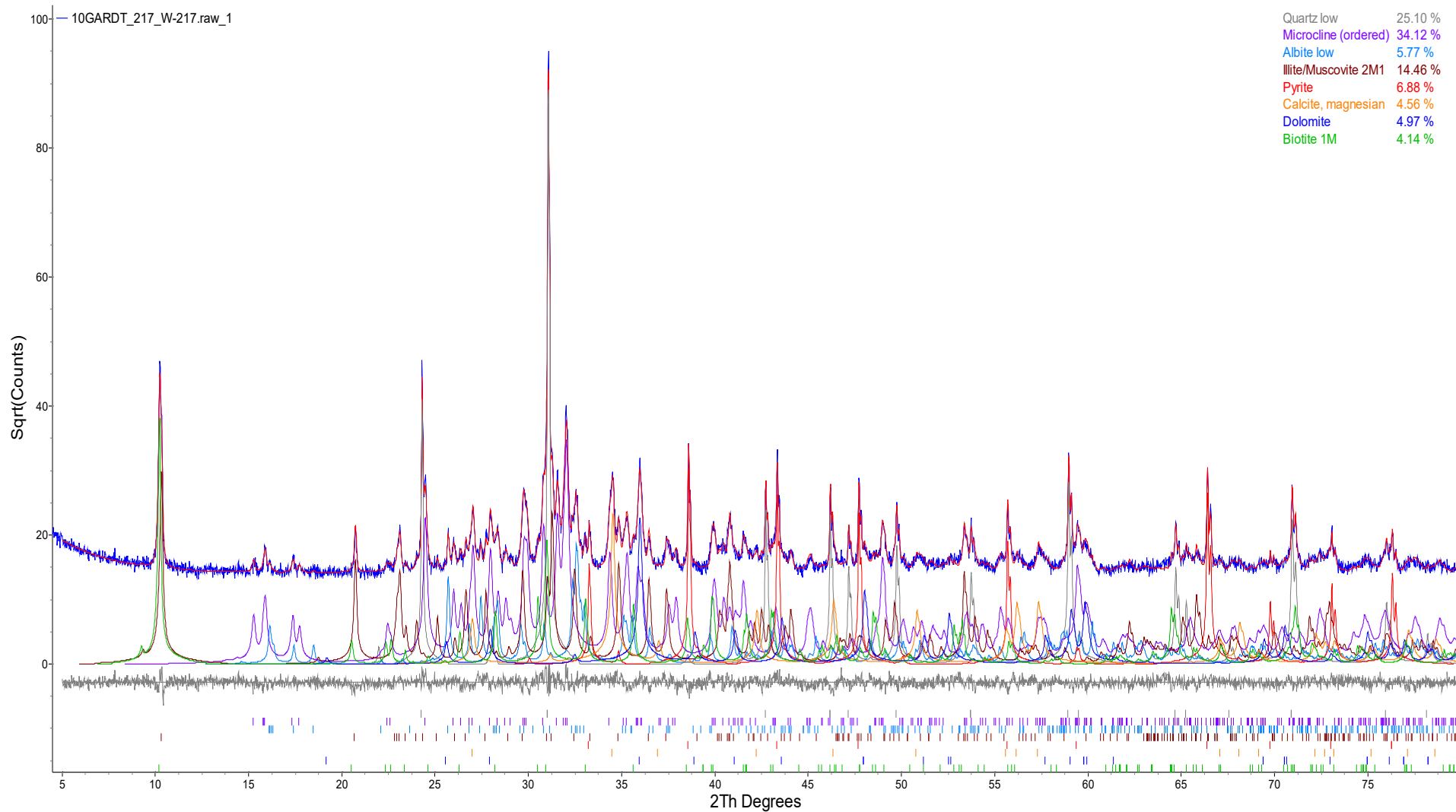


Figure 10. Rietveld refinement plot of sample **Global ARD Testing Services #217: W-217** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below - difference between observed and calculated intensities; vertical bars - positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

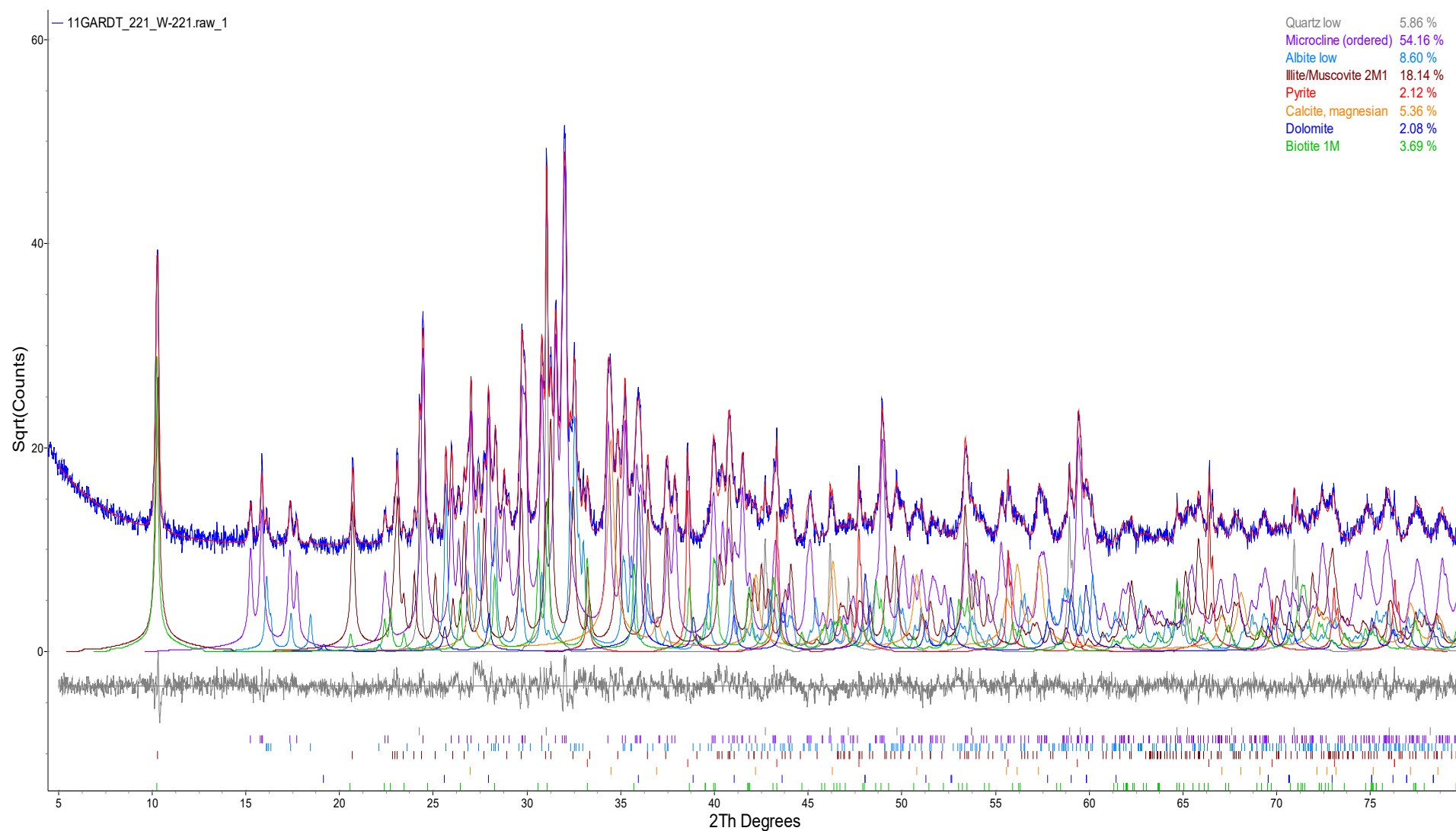


Figure 11. Rietveld refinement plot of sample **Global ARD Testing Services #221: W-221** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below - difference between observed and calculated intensities; vertical bars - positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

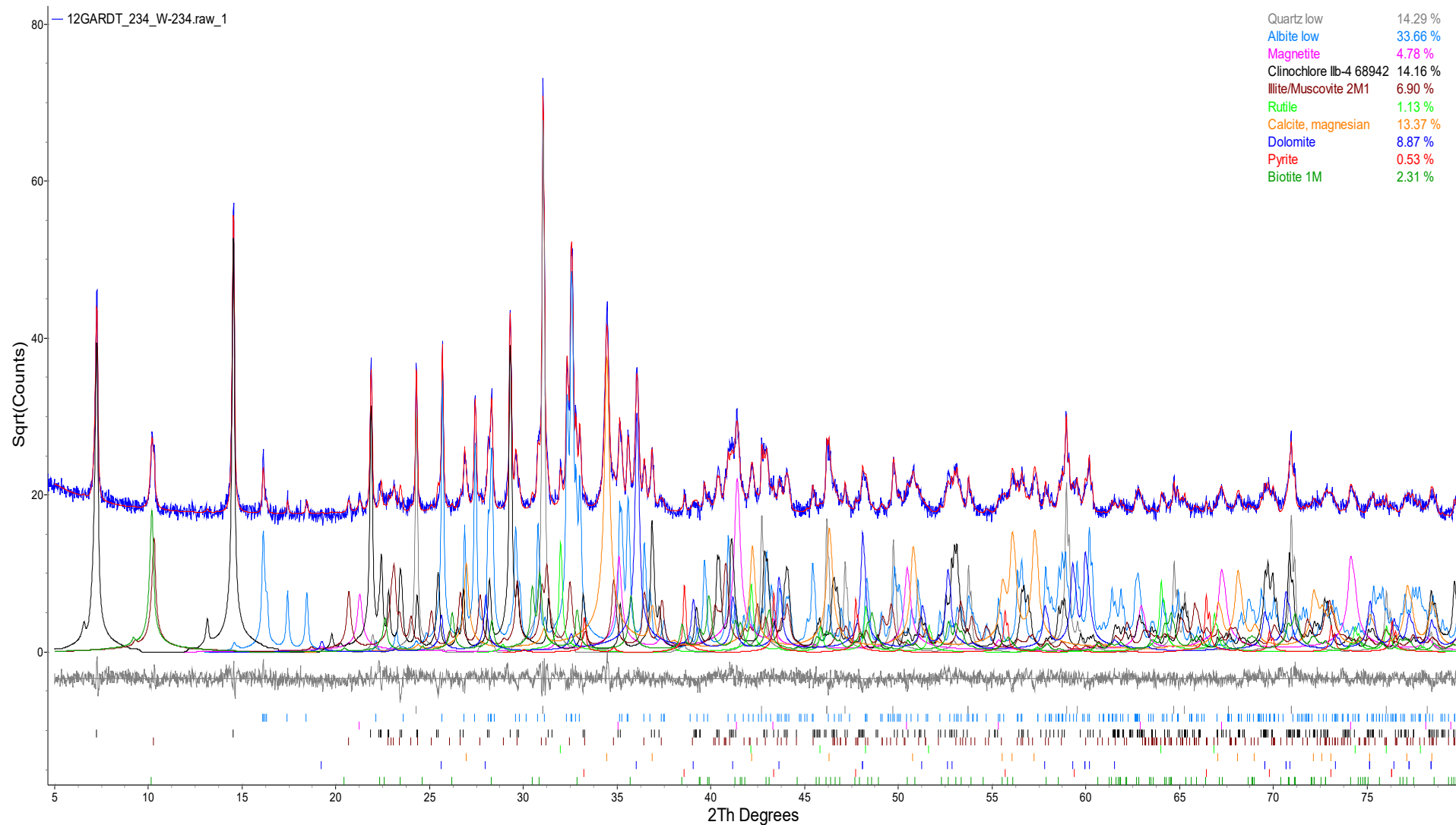


Figure 12. Rietveld refinement plot of sample **Global ARD Testing Services #234: W-234** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below - difference between observed and calculated intensities; vertical bars - positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

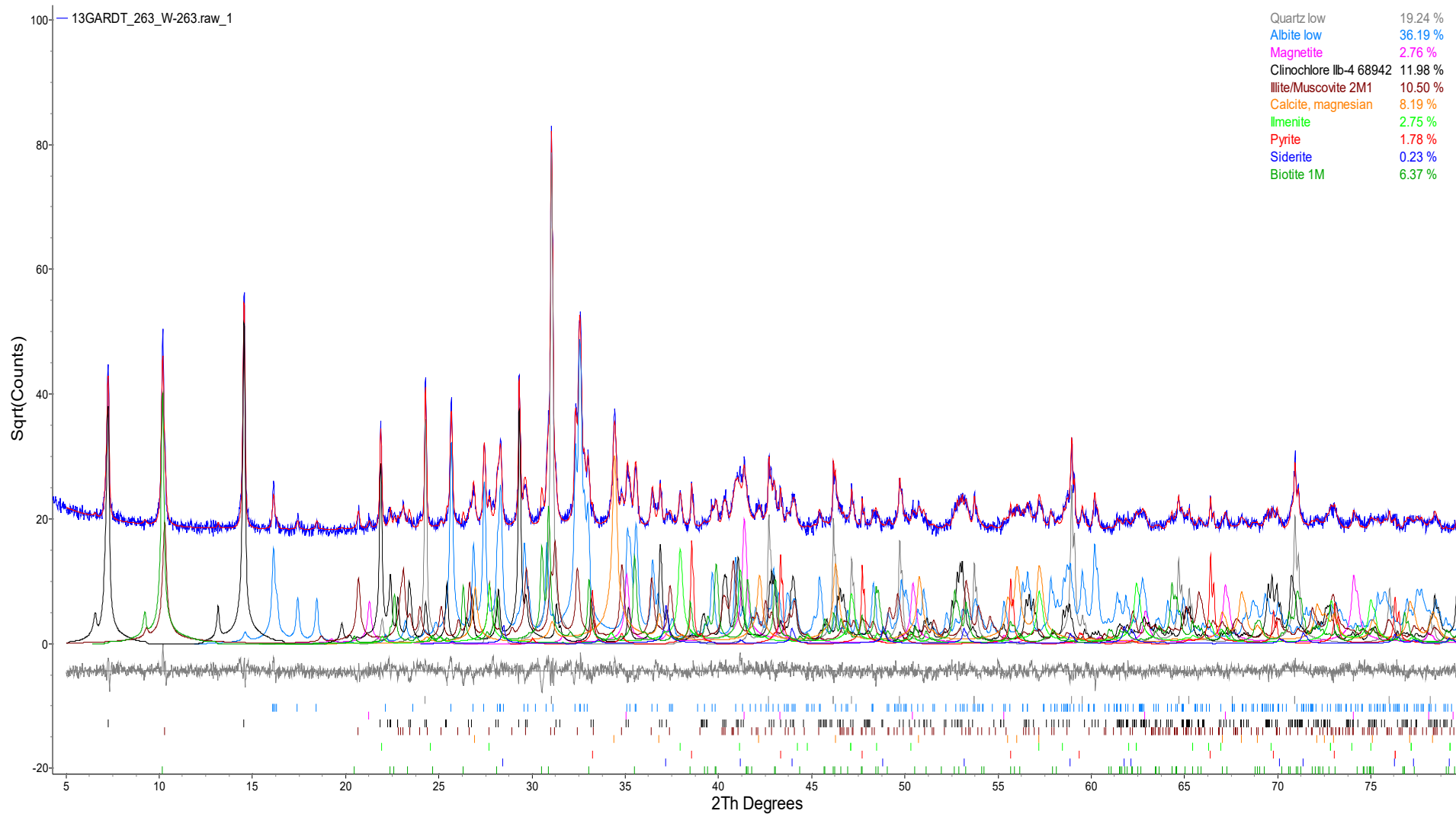


Figure 13. Rietveld refinement plot of sample **Global ARD Testing Services #263: W-263** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below - difference between observed and calculated intensities; vertical bars - positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

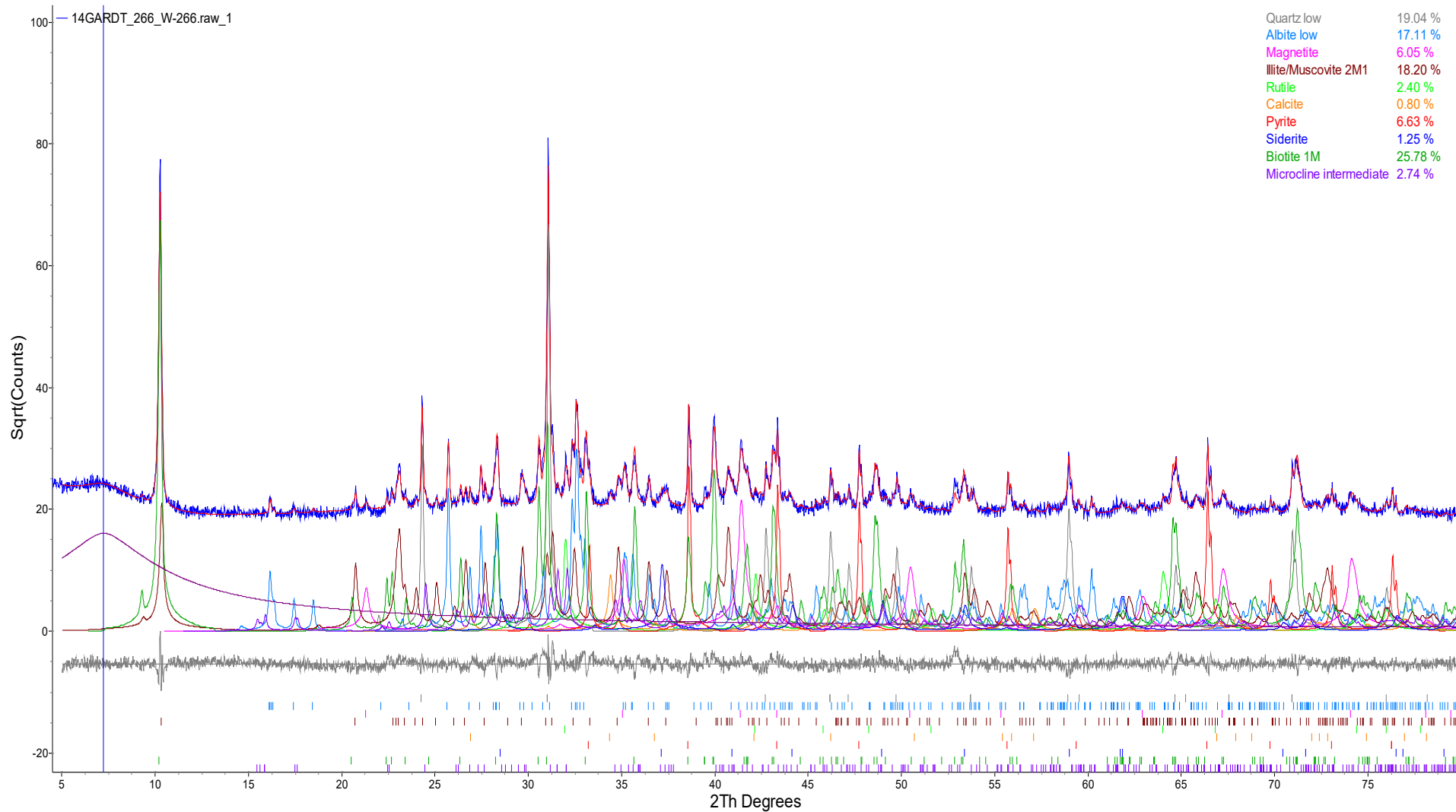


Figure 14. Rietveld refinement plot of sample **Global ARD Testing Services #266: W-266** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below - difference between observed and calculated intensities; vertical bars - positions of all Bragg reflections; vertical blue lines - positions of peaks phases). Coloured lines are individual diffraction patterns of all phases.

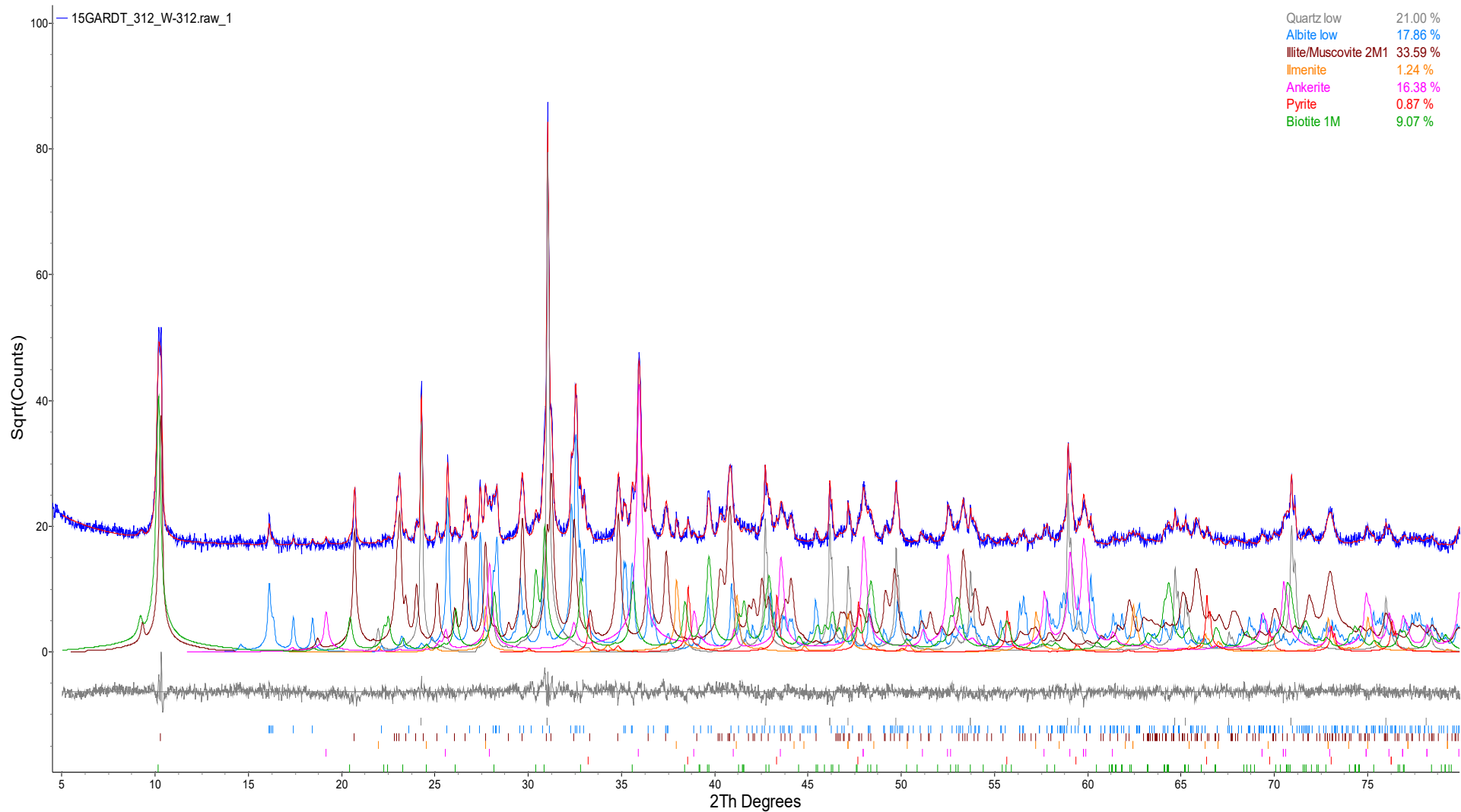


Figure 15. Rietveld refinement plot of sample **Global ARD Testing Services #312: W-312** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below - difference between observed and calculated intensities; vertical bars - positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.