Stream Sediment Geochemical Survey over the Warwick Mountain Area, Eastern Cobequid Highlands, Nova Scotia: Data, Methods, and QA/QC

G. J. Baldwin

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Introduction

A large-scale high-resolution stream sediment (silt) sampling survey across the northeastern Cobequid Highlands was conducted in 2016-2017 as a part of the larger Warwick Mountain Gold project, consisting of grassroots bedrock mapping, till sampling, and stream sediment sampling. This was driven by the recognition of widespread arsenic (As), antimony (Sb), and other base metal anomalies in bedrock samples associated with known gold occurrences in the Warwick Mountain area (MacHattie, 2013, 2017; Baldwin, 2016) and widespread gold-in-stream anomalies identified from recent and historical assessment reports (e.g. Hogg, 1990). During the 2016 field program, an unexplained disconnect between these geochemical anomalies in bedrock samples and the location of the historical gold-in-stream anomalies was observed (Baldwin, 2017; MacHattie 2017). This presented a geoscientific and mineral exploration problem that could not be solved strictly through further bedrock mapping and sampling. This, together with the recognition that the potential for low-sulphidation-type epithermal gold was across the entire Carboniferous volcanic belt, rather than just at Warwick and Nuttby mountains, necessitated an expansion of sampling programs (MacHattie 2013; Baldwin 2016). As a result, large-scale sampling programs in the area were initiated (Baldwin, 2017; Brushett, 2017; MacHattie 2017) to better locate and characterize the areas with the best potential. The pilot sampling program of autumn 2016 (Baldwin, 2017) had already demonstrated the utility of pXRF for detecting arsenic and base metals (e.g. Zn, Pb), allowing this inexpensive, fast in-house analytical method to be used on a much larger survey scale, and to better screen samples for the best candidates to send for full lab analyses. Between the 2016 and 2017 field campaigns, a total of 774 stream sediment samples were collected, of which 623 were collected from June to September 2017 (Fig. 1).

This paper contains the field methods and survey design notes for this stream sediment survey, the data (Appendices A and B), as well as the QA/QC on the lab and pXRF data collected as part of the survey (Appendix C). A GIS-compatible digital data release (Baldwin and MacMullen, 2018) accompanies this report; it contains sample location data, all field notes on the site, and all data acquired by pXRF and aqua regia ICP-MS as a GIS dataset (file geodatabase and shape files), complete with coded layer files with recommended symbology.

Survey Design

Initially designed as an experiment to test the utility of pXRF for reconnaissance geochemistry on stream sediment sampling (Baldwin, 2017), the early returns on the 2016 sampling program were sufficiently promising to expand this program to a high-density regional survey. Sampling in 2016 was done at extremely high resolution, with station spacing ranging from 50 to 150 m, depending the scale of gold-in-streams anomalies reported by Seabright in the late 1980s (Hogg, 1990). During this initial pilot campaign, the principal focus was placed on the Miller Brook–Munroe Brook–Sutherland Brook area near East New Annan and Central New Annan (Baldwin, 2017). This area was the original focus because of the large number of historical gold anomalies but an apparent absence of anomalous pathfinder elements (e.g. As, Sb) in bedrock samples (MacHattie, 2017). Additional focus was placed on the Baileys Brook–Cavanagh

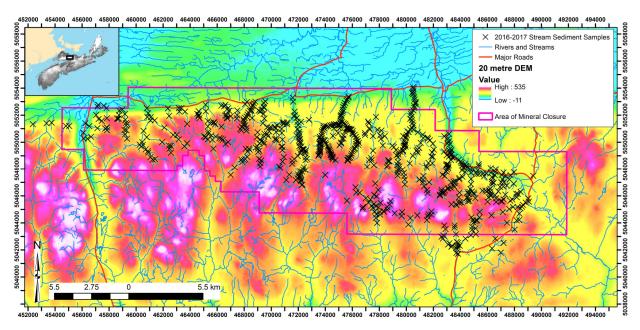


Figure 1. Sample locations of stream sediment (silt) samples collect in 2016 and 2017 in the Warwick Mountain mineral closure area (N=774). Background is 20 m DEM.

Brook system and McLeod Brook, areas of new mineral discoveries in 2016 (Baldwin, 2017; MacHattie, 2017). Total sampling in the fall 2016 pilot program resulted in 151 silt samples. Promising preliminary results resulted in the design of the full study presented herein. Using the 1 m lidar together with existing topographical maps, a total of 670 stream sample target sites were chosen, emphasizing sampling below, above, and up each visible drainage and tributary throughout the study area. Emphasis was placed on waterways draining from the Byers Brook and Diamond Brook formations. Riverways without visible tributaries had targets placed at intervals ranging from 200 to 500 m, as appropriate based on known bedrock lithology changes and the perceived prospectivity of the area. Not all targets proved sampleable, as some drainages visible on the lidar showed no or little evidence of even ephemeral water flow. However, if any evidence of seasonal or ephemeral flow was observed, the site was sampled. Many target areas also proved inaccessible, most commonly due to being in large swamps with severely overgrown alders. Due to time constraints on the program and the questionable value of stream sediments collected in swamps, large target areas (e.g. south of Clear Lake and Whippey Lake) lack sample coverage. The presence of swamps did not necessarily preclude sampling, however, as the upper headwaters of many streams in the area are swamps or bogs on top of the highlands (plateau). Consequently, many samples from the headwaters of streams were disproportionately high in organic matter.

Methods

Field and Sampling Methods

Stream sediment sampling protocol followed that of the National Geochemical Reconnaissance (NGR) (see Day et al., 2009), consisting of filling a kraft paper sample bag with the finest grained material available at the sample site. This resulted in samples ranging in overall composition from fine-grained sand, to pebbly silts and sands, to organic-rich mud, depending on the physiography and sedimentation patterns of the streams present. Field samples were then placed in individual Ziploc bags to prevent cross-contamination between samples. Collection of field duplicate samples commenced at 17GB0114/115 (first duplicate pair), and a duplicate pair was collected within every 20-sample interval for the

remainder of the program, resulting in a total of 26 duplicate pairs. Kraft bags for sample duplicates were filled simultaneously, each receiving half of each handful of sampled material. Duplicates were primarily collected at sites with more abundant and thus often sandier sediment than the average site.

Upon return from the field, samples were laid out on plastic shelving to air dry for a minimum of 24 hours to remove excess moisture prior to being placed in a Thermo Scientific drying oven at 60°C for 24 to 40 hours, depending on the level of dryness after 24 hours and the number of samples in the queue. Samples typically underwent an additional two weeks or longer air drying following the oven, partly to eliminate any remaining moisture and partly due to sample backlog and the amount of time dedicated to sample processing over the course of the field season. All samples were processed within a maximum of three weeks following collection. Once completely dry, samples were hand sieved for the <250 um fraction (all coarser material was discarded). All samples passed through 500 um and 250 µm screens; however, later samples were also passed through 2 mm and 1 mm screens to expedite the sieving process and increase sample yield. Samples collected during the 2016 field campaign were processed in old brass sieves, but upon the expansion of the sampling program, new stainless steel sieves were purchased and used for all 2017 samples. Sieve fraction yields for samples ranged from 5% to some rare samples with near total recovery. Sieved material was stored in 40 dram (147.9 mL) snap-top vials. For analysis, the lids were removed from the vials and the vials were covered with Prolene 4 µm Thin-Film, which was then secured with elastic. Following homogenization (shaking of vials), sample vials were inverted on a Innovex x5000 portable X-ray Fluorescence (pXRF) and analyzed for a suite of 38 elements; however, several (P, Cl, Co, Ag, La, Nd, Sm, Hg, and Bi) were not reported due either to very low numbers of detections, or due to very poor reproducibility of the data.

Field Notes

Sample site data were recorded using the standard NGR stream sediment sample forms. Collected information included stream width, depth, physiography, and surface expression; the stream's drainage, source, class, type, and flow; water colour and clarity; the vegetation type present; the bank material(s); possible contamination sources (detailed below); and sediment colour and grain size. Not all data were recorded at all sites, specifically stream width, depth, sampling time, and grain size percentages. This was generally due to sampler error or the sampler not wearing a watch. These have been recorded as zero in the digital product (Baldwin and MacMullen, 2018) as well as in the data tables in Appendix A, and are indicated so in the comments column. Such cases make up a small proportion of the 774 samples collected.

Most samples collected have as either definite or probable sources of contamination. This is in large part due to the long history of habitation, development, and land use in the study area. Although most of the area is currently heavily forested with generally low degrees of development, a variety of potential contamination sources where observed and identified:

1) Forestry: Most of the study area consists of forested lots used for timber harvesting, both at the small and industrial scale. Recently harvested areas are potentially subject to several types of contamination. The largest observed causes appeared to be increased erosion due to clear cutting and fuel and lubricant seepage into the streams, which occurs where heavy equipment was operated proximal to the stream and where barrels and bottles of grease, oil, and other fluids were discarded into the streams. Locally, further contamination results from slash and large volumes of sawdust being dumped in the streams. In some rare cases, areas marked as having potential for contamination by forestry are not at significant risk from harvesting, but rather from sylvicultural operations. Given the broad nature of forestry operations in this region of the Cobequid Highlands, all samples should be

considered at risk of contamination. This includes samples not marked as potentially contaminated in Appendix A and Baldwin and MacMullen (2018).

- 2) Domestic: Portions of the study area are inhabited, but generally sparsely. Many of the sources of potential domestic contamination are cottages and other seasonal homes, but year-round residences are also a source of contamination. In many areas, domestic contamination may be unrelated to the presence of any houses, as domestic garbage, ranging from modern household waste to old appliances and automobiles, are often found in even the most remote stream beds. Where houses and cottages are present, contamination from septic systems and outhouses is also a possibility.
- 3) Road runoff: An extensive network of roads, ranging from paved, numbered highways to overgrown woods roads and trails, is present in the study area, making the possibility of contamination from road runoff common. Potential contamination from petrochemicals, road salt, and other debris are present along paved and primary gravel roads in the area, but some contamination risk remains from even the smallest, least-used trail or track.
- 4) Agriculture: In parts of the study area, particularly those close to the Cumberland Basin, agriculture with diverse products is present. Most farms in the study area are dominated by hay, cultivated wild blueberries, or livestock (cattle, horses). These crops carry less risk of runoff from fertilizers and pesticides than other farmed products; however, many of the livestock farms in the area have open pasture access to the streams, creating some contamination risk from animal waste.
- 5) Mining: No active mining operations are present in the study area; however, numerous aggregate pits, both small and large, extracting both bedrock and overburden are present. Most are not active; however, areas with such risk have been recorded.
- 6) Industry: This designation is used to identify areas with contamination risk from one of two sources: either runoff from the trails at Ski Wentworth at the western end of the study area or drainage from the Nuttby Mountain Wind Farm in the east. The actual contamination risk from each of these is uncertain.
- 7) Iron seep: There are local cases of rusty iron seeps at or near a sample site. Some examples may be naturally occurring; however, all have been noted due to their likely influence on sediment composition.
- 8) Sugarbush: Numerous maple syrup operations are present along the north slope of the Cobequid Highlands in this area. Although this contamination designation is very specific, it was chosen because these operations have similarities to the forestry, agriculture, and industry categories. These operations, however, are fairly low impact and most carry minimal risk of contaminating the stream sediments.

Aqua Regia ICP-MS Sample Selection

Out of the total of 774 samples analyzed by pXRF, a subset of 292 samples was selected for analysis by aqua regia ICP-MS at Bureau Veritas in Vancouver for a suite of 35 elements, including Au and most pathfinder elements and base metals. To avoid any preconceived sample bias, geographic location was not used in selecting samples for lab analyses. Instead, samples were screened based primarily on their chemistry. By pXRF, As had proved to be the most promising pathfinder element, so samples were initially screened to include the 200 highest As values from the dataset. Additionally, all samples with greater than 300 ppm Zn were selected. Lastly, all samples with detectable Se, Hg, and Sb were selected (Hg data by pXRF has not been reported, due to unrealistic concentrations and a total lack of reproducibility by lab methods). The dataset was completed with the addition of all remaining field duplicate pairs for QA/QC purposes. Fifteen aliquots of the CANMET standard reference material Till-3

were also included as blind checks on data quality (all CANMET stream sediment standards had been discontinued at the time of survey design). Aliquots of Till-3 were inserted randomly within each 20-sample sequence, and assigned the sample designation of the number of the preceding sample with the suffix "C" added to the end (e.g., 17GB0030C). Certified values used in QA/QC are from Lynch (1996). Aliquots weighing between 4 and 45 g were measured from the sieved samples (contingent on the amount of sample recovery during sieving and the density of the sample material), placed in clean, screw-top plastic vials and sent to Bureau Veritas (formerly ACME Labs) for analysis by procedure AQ250. All diagrams related to QA/QC are included in Appendix C (C1-pXRF duplicates; C2-Till-3; C3-Field Duplicates by ICP-MSW; C4- Lab duplicates by ICP-MS; C4- pXRF vs ICP-MS data).

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Appendix A. Geochemical Results

Geochemical results are in the accompanying Microsoft Excel file "AppendixA_Geochem_V1.xlsx".

Appendix B. Laboratory Certificates

In addition to the following text, the laboratory results are presented in the accompanying text file "VAN17002654.CSV".

Editor's note: Three samples have been redacted. These samples are outside the study area.



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Nova Scotia Dept. of Natural Resources 1701 Hollis St. Client:

Halifax Nova Scotia B3J 2T9 Canada P.O. Box 698

Canada-Vancouver Geoffrey Baldwin Receiving Lab: Submitted By:

Received:

November 16, 2017 1 of 12

November 29, 2017 Report Date:

VAN17002654.1

CERTIFICATE OF ANALYSIS

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada PHONE (604) 253-3158

Bureau Veritas Commodities Canada Ltd.

CLIENT JOB INFORMATION	DRMATION	SAMPLE PR	EPARATION	SAMPLE PREPARATION AND ANALYTICAL PROCEDURES
Project:	None Given	Procedure	Number of Samples	Number of Code Description Samples
P.O. Number		SLBHP	307	Sorting, labeling and boxing samples received as pulps
Number of Samples:	308	AQ250	307	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis
		DRPLP	307	Warehouse handling / disposition of pulps
SAMPLE DISPOSAL	ΔI			

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Completed

0.5

Lab

Report Status

Test Wgt (g)

ADDITIONAL COMMENTS

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Return After 90 days

RTRN-PLP

Nova Scotia Dept. of Natural Resources 1701 Hollis St.

Invoice To:

P.O. Box 698

Halifax Nova Scotia B3J 2T9

Canada

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This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this care of the care on the state of the care of the care



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None Given Report Date: Project:

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	Analyte	Mo	ō	Pb	Zn	Ag	Z	၀	Mn	F	As	ם	Αn	£	s	B	Sb	茴	>	ca	Δ
	Unit	mdd	mdd	mdd	mdd	qdd	mdd	mdd	mdd	%	mdd	mdd	qdd	mdd	mdd	mdd	mdd	mdd	mdd	%	%
	MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
16GB0111	Sediment Pulp	0.36	34.66	17.07	84.4	21	16.3	11.1	555	2.49	2.1	9.0	2.9	2.1	12.1	0.26	0.17	0.18	51	0.28	0.046
16GB0111C	Sediment Pulp	0.57	20.10	17.02	37.9	1471	29.7	10.1	319	1.91	92.3	1.2	5.0	5.9	18.6	0.10	0.57	0.37	32	0.47	0.048
16GB0120	Sediment Pulp	0.41	43.95	19.69	101.7	58	24.4	16.8	696	3.45	2.6	2.0	4.1	4.1	23.6	0.31	0.15	0.12	69	0.48	0.054
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16GB0140	Sediment Pulp	0.33	25.12	18.48	110.6	14	15.9	10.3	554	2.32	2.5	9.0	8.	1.6	18.6	0.75	0.18	0.11	44	0.41	0.049
16GB0144	Sediment Pulp	1.80	42.44	23.23	98.9	173	17.2	11.7	2378	2.25	8.7	2.2	2.4	0.4	33.8	1.27	0.20	0.15	53	0.59	0.089
16GB0145	Sediment Pulp	1.37	29.60	20.07	92.4	80	15.7	9.5	270	2.13	1.9	0.8	0.3	0.8	76.9	0.45	0.19	0.12	44	0.62	0.063
16GB0146	Sediment Pulp	0.38	27.75	19.84	91.0	64	15.8	10.4	759	2.24	2.0	0.7	0.5	6.0	23.0	0.60	0.17	0.12	49	0.51	0.059
16GB0148	Sediment Pulp	0.49	17.07	28.25	98.4	114	13.1	8.0	274	1.78	2.4	1.1	0.3	0.4	7.3	0.26	0.16	0.17	33	0.11	0.057
16GB0151	Sediment Pulp	0.62	51.27	48.35	301.2	161	24.4	18.7	2036	3.25	4.1	1.7	1.6	6.0	45.0	3.71	0.33	0.19	29	0.78	0.074
16GB0157	Sediment Pulp	0.56	19.60	38.38	124.7	55	15.1	11.5	756	2.37	5.1	0.7	4.0	1.1	10.3	0.30	0.21	0.17	42	0.21	0.049
16GB0158	Sediment Pulp	0.61	26.54	43.06	154.0	56	15.1	11.6	1208	2.19	4.8	0.7	4.0	0.8	19.3	0.86	0.23	0.19	42	0.44	0.053
16GB0162	Sediment Pulp	1.05	20.24	60.57	177.2	88	13.3	12.5	1383	2.16	7.0	9.0	0.2	0.5	8.7	1.06	0.22	0.21	39	0.18	0.059
16GB0163	Sediment Pulp	0.22	16.91	54.18	136.0	22	14.3	10.7	692	2.49	8.0	0.5	<0.2	5.9	10.4	0.38	0.22	0.11	20	0.28	0.043
16GB0164	Sediment Pulp	1.04	18.99	60.30	256.4	70	14.2	11.9	1003	2.05	6.0	9.0	4.0	9.0	12.9	1.89	0.20	0.17	43	0.36	0.050
16GB0165	Sediment Pulp	2.67	35.33	40.09	239.7	279	18.1	31.3	9122	2.71	3.5	9.0	18.6	0.4	23.7	1.80	0.27	0.21	24	0.48	0.090
16GB0167	Sediment Pulp	2.20	23.22	40.71	224.2	153	20.8	13.7	680	2.25	3.4	1.5	<0.2	0.4	19.8	1.24	0.20	0.17	51	0.42	0.075
16GB0168	Sediment Pulp	1.29	30.98	42.34	160.2	83	19.5	24.2	3858	4.12	6.8	9.0	2.3	0.5	34.7	1.48	0.23	0.20	85	0.75	0.104
16GB0174	Sediment Pulp	0.46	33.24	22.99	92.8	37	24.1	17.3	833	3.76	5.9	9.0	<0.2	1.9	18.9	0.31	0.14	0.12	80	0.47	0.073
16GB0181	Sediment Pulp	0.25	15.15	18.22	66.1	14	15.1	10.1	628	2.27	2.2	0.5	1.3	2.4	10.9	0.20	0.15	0.10	43	0.34	0.043
16GB0189	Sediment Pulp	0.50	28.98	52.95	100.3	70	16.7	14.7	1338	3.20	5.5	1.1	5.3	0.7	34.8	5.72	0.18	0.12	75	0.75	0.078
16GB0196	Sediment Pulp	1.19	36.58	215.26	311.4	94	15.2	15.8	2356	3.01	0.6	1.3	<0.2	0.5	37.8	13.76	0.27	0.12	72	0.78	0.085
16GB0200	Sediment Pulp	0.37	19.72	18.73	93.5	37	16.8	11.8	779	2.62	2.2	9.0	<0.2	1.0	14.6	0.45	0.12	0.09	90	0.37	0.048
16GB0204	Sediment Pulp	0.52	68.48	23.32	92.6	125	10.4	9.4	2555	1.77	1.7	9.0	4.0	0.1	31.9	0.82	0.17	0.13	40	0.69	0.084
16GB0212	Sediment Pulp	0.65	36.88	36.97	195.6	80	24.4	18.5	1486	3.47	3.0	0.7	1.7	1.0	22.8	0.99	0.13	0.11	92	0.57	0.067
16GB0216	Sediment Pulp	1.33	47.34	53.20	222.3	288	18.3	19.0	2564	2.91	4.5	0.7	<0.2	0.4	30.5	1.76	0.25	0.20	7.1	0.57	0.082
16GB0216C	Sediment Pulp	0.56	19.88	17.11	37.1	1518	29.2	9.8	307	1.85	90.1	1.2	2.2	2.6	18.9	0.10	0.56	0.35	32	0.46	0.043
16GB0217	Sediment Pulp	3.56	51.30	44.44	241.3	325	16.5	14.9	7873	2.05	3.5	1.0	0.2	0.1	8.65	4.84	0.42	0.22	44	1.03	0.157

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only

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	Method	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
	Analyte	La	ວັ	Mg	Ва	F	В	A	N	¥	3	Sc	F	Ø	Hg	Se	Ч	Ga
	Unit	mdd	mdd	%	mdd	%	mdd	%	%	%	mdd	mdd	mdd	%	qdd	mdd	mdd	mdd
	MDL	9.0	0.5	0.01	0.5	0.001	20	10.0	0.001	0.01	0.1	0.1	0.02	0.02	2	0.1	0.02	0.1
16GB0111	Sediment Pulp	15.6	20.7	0.50	60.1	0.147	<20	1.08	0.012	0.05	<0.1	2.7	0.07	<0.02	102	0.3	<0.02	3.9
16GB0111C	Sediment Pulp	15.2	60.2	0.56	37.7	0.063	<20	1.05	0.022	0.08	0.1	3.6	0.07	<0.02	66	0.2	<0.02	3.6
16GB0120	Sediment Pulp	12.4	28.4	92.0	67.8	0.183	<20	2.21	0.012	90.0	<0.1	3.9	0.12	0.02	179	0.7	<0.02	6.8
	Sediment Pulp					A STATE OF THE PARTY OF THE PAR	-		Albert		AND DESCRIPTIONS	The second		-				
1	Sediment Pulp						I											
	Sediment Pulp	-													-	N		
16GB0140	Sediment Pulp	14.9	17.4	0.50	61.8	0.130	<20	1.25	0.015	90.0	<0.1	2.7	0.09	0.03	62	0.3	<0.02	4.3
16GB0144	Sediment Pulp	23.1	20.5	0.42	106.2	0.070	<20	1.71	0.014	90.0	<0.1	3.8	0.36	0.07	171	6.0	<0.02	4.6
16GB0145	Sediment Pulp	20.2	19.3	0.49	36.9	0.145	<20	1.44	0.041	0.05	0.2	3.4	0.09	0.10	138	9.0	<0.02	4.9
16GB0146	Sediment Pulp	15.0	19.6	0.49	62.5	0.135	<20	1.35	0.016	0.05	<0.1	3.3	0.09	0.07	86	9.0	<0.02	4.6
16GB0148	Sediment Pulp	22.5	17.5	0.29	57.3	0.053	<20	1.50	900.0	0.05	<0.1	2.2	0.12	0.05	88	9.0	<0.02	4.9
16GB0151	Sediment Pulp	37.4	19.6	0.81	103.0	0.145	<20	2.79	0.015	0.07	<0.1	5.1	0.43	0.08	188	2.0	<0.02	6.2
16GB0157	Sediment Pulp	14.0	17.6	0.47	34.9	0.081	<20	1.18	600.0	90.0	<0.1	2.4	0.16	0.03	92	0.4	<0.02	4.3
16GB0158	Sediment Pulp	15.6	16.1	0.43	62.3	0.074	<20	1.15	0.010	90.0	<0.1	2.3	0.20	0.05	66	9.0	<0.02	3.7
16GB0162	Sediment Pulp	16.8	15.1	0.38	40.3	0.075	<20	1.18	0.007	0.05	<0.1	2.3	0.25	0.05	105	9.0	<0.02	4.2
16GB0163	Sediment Pulp	15.4	16.0	0.57	26.7	0.118	<20	0.98	900.0	90.0	<0.1	e.	0.08	<0.02	24	0.1	<0.02	3.8
16GB0164	Sediment Pulp	16.0	15.1	0.41	41.4	0.120	<20	1.15	0.008	0.04	0.1	2.4	0.19	0.05	84	9.0	<0.02	4.1
16GB0165	Sediment Pulp	13.9	16.5	0.58	160.2	0.132	<20	1.57	600.0	90.0	<0.1	2.5	0.40	0.10	219	6.0	<0.02	6.4
16GB0167	Sediment Pulp	18.7	22.5	99.0	72.6	0.144	<20	2.15	0.011	0.04	9.0	3.2	0.26	0.10	139	1.0	<0.02	7.4
16GB0168	Sediment Pulp	11.7	23.0	0.64	101.0	0.170	<20	1.83	0.012	90.0	<0.1	3.1	0.36	0.10	160	6.0	<0.02	7.5
16GB0174	Sediment Pulp	13.0	28.3	0.81	85.4	0.272	<20	2.24	0.014	90.0	<0.1	4.0	0.11	0.03	77	0.4	<0.02	7.2
16GB0181	Sediment Pulp	10.0	16.6	0.49	83.8	0.121	<20	0.95	0.012	90.0	<0.1	2.4	0.07	<0.02	17	<0.1	<0.02	3.4
16GB0189	Sediment Pulp	13.1	22.1	09.0	78.2	0.207	<20	1.73	0.016	0.05	<0.1	4.1	0.30	0.08	116	0.7	<0.02	6.7
16GB0196	Sediment Pulp	15.3	21.8	0.54	75.9	0.175	<20	1.64	0.016	0.04	<0.1	3.7	0.40	0.09	153	1.0	<0.02	0.9
16GB0200	Sediment Pulp	12.2	20.3	0.57	59.7	0.188	<20	1.38	0.016	0.04	<0.1	3.0	0.09	0.03	52	4.0	<0.02	5.1
16GB0204	Sediment Pulp	13.2	16.6	0.32	72.6	0.062	<20	1.26	0.009	0.04	<0.1	1.7	0.14	0.11	184	1.2	<0.02	4.3
16GB0212	Sediment Pulp	14.9	26.5	0.89	73.5	0.253	<20	1.89	0.017	0.04	<0.1	3.8	0.28	0.05	79	9.0	<0.02	9.9
16GB0216	Sediment Pulp	19.4	19.4	0.52	89.9	0.195	<20	1.74	0.014	90.0	<0.1	2.7	0.41	0.11	201	1.3	<0.02	7.7
16GB0216C	Sediment Pulp	14.9	59.0	0.55	39.1	0.061	<20	1.03	0.021	90.0	0.1	3.2	0.07	<0.02	119	0.1	<0.02	3.7
16GB0217	Sediment Pulp	47.7	12.7	0.39	205.4	0.063	<20	1.54	0.015	90.0	<0.1	1.7	0.69	0.20	306	2.4	<0.02	ω.4

dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. This report supersedes all previous preliminary and final



Nova Scotia Dept. of Natural Resources 1701 Holls St. P.O. Box 698 Client:

Halifax Nova Scotia B3J 2T9 Canada

www.bureauveritas.com/um

MINERAL LABORATORIES

B U R E A U V E R I T A S

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada PHONE (604) 253-3158

None Given November 29, 2017

Project: Report Date:

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Part:

	Method	AQ250	AQ250	AQ250	AQ250	AQ250 ,	AQ250 /	AQ250 /	AQ250 /	AQ250	AQ250 ,	AQ250 /	AQ250 /	AQ250	AQ250						
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	Unit	mdd	mdd	mdd	mdd	qdd	mdd	mdd	mdd	%	шdd	mdd	qdd	mdd	mdd	mdd	mdd	mdd	mdd	%	%
	MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	-	0.01	0.1	0.1	0.2	0.1	9.5	0.01	0.02	0.02	2	0.01	0.001
16GB0218 Sedime	Sediment Pulp	1.61	40.86	46.34	291.9	254	24.5	19.5	4137	2.92	4.7	6.0	0.5	0.3	32.0	3.05	0.26	0.17	25	0.73	0.098
16GB0235 Sedime	Sediment Pulp	0.37	10.25	20.14	103.9	17	13.8	8.0	455	2.28	21.4	6.0	45.1	2.6	27.9	0.73	0.93	0.10	46	0.25	0.044
16GB0236 Sedime	Sediment Pulp	0.34	10.36	19.23	95.8	13	13.1	7.8	415	2.10	22.9	9.0	<0.2	2.4	28.3	0.71	0.86	0.09	45	0.23	0.039
16GB0237 Sedime	Sediment Pulp	0.36	10.82	21.48	106.3	23	14.1	8.4	453	2.14	32.5	6.0	8.0	2.2	26.4	0.88	0.93	0.10	40	0.25	0.044
16GB0240 Sedime	Sediment Pulp	0.51	11.44	24.76	9.68	16	12.7	7.7	616	1.96	7.4	=	0.3	2.2	9.6	09.0	0.31	0.12	36	0.15	0.033
16GB0243 Sedime	Sediment Pulp	0.67	12.64	24.91	96.5	20	11.9	9.7	669	1.94	8.7	1.1	2.3	2.1	9.4	0.77	0.40	0.12	37	0.22	0.042
16GB0245 Sedime	Sediment Pulp	0.67	11.61	76.46	89.7	27	11.9	6.9	249	1.65	7.8	6.0	2.3	1.7	7.1	0.48	0.42	0.14	35	0.17	0.043
16DB194 Sedime	Sediment Pulp	0.33	19.73	19.56	129.7	22	15.2	9.5	568	2.52	2.5	0.5	5.6	2.3	14.9	0.47	0.19	0.12	20	0.36	0.047
16DB201 Sedime	ent Pulp	0.34	15.49	14.67	69.4	6	14.0	8.9	408	2.64	1.8	9.0	1.2	4.1	12.8	0.24	0.16	0.12	90	0.33	0.041
16DB204 Sedime	Sediment Pulp	0.43	18.31	41.34	193.5	49	21.5	10.9	779	2.59	19.7	2.1	1.7	1.4	65.1	1.65	0.37	0.16	47	0.38	0.066
16DB205 Sedime	Sediment Pulp	2.28	36.40	66.04	422.2	166	17.7	17.6	4098	2.63	20.0	12.0	2.8	9.0	23.2	3.49	0.50	0.14	52	0.52	0.129
17KG0001 Sedime	Sediment Pulp	1.04	15.25	42.63	171.4	20	18.5	11.7	944	2.68	8.4	8.0	9.0	2.0	11.5	0.61	0.35	0.15	52	0.34	0.053
17KG0002 Sedime	Sediment Pulp	2.78	18.29	79.05	334.6	170	17.7	13.1	3613	2.51	9.4	1.2	8.0	0.3	21.6	2.86	0.33	0.18	47	0.55	0.084
17KG0003 Sedime	Sediment Pulp	1.98	21.79	72.32	257.0	76	21.2	15.7	1387	2.93	10.2	1.0	0.3	1.5	16.2	0.98	0.42	0.13	61	0.54	0.057
17KG0004 Sedime	Sediment Pulp	3.74	16.23	50.54	255.7	107	12.9	10.8	1810	2.37	7.0	2.8	9.0	1.2	12.1	1.80	0.37	0.18	49	0.33	0.058
17KG0004C Sedime	ent Pulp	0.56	18.82	17.26	37.4	1445	29.3	9.5	297	1.85	87.4	1.2	1.4	2.8	18.3	0.10	0.56	0.33	31	0.47	0.044
17KG0005 Sedime	Sediment Pulp	6.45	14.21	92.99	153.4	209	10.6	15.4	5927	2.48	3.8	1.6	9.0	9.0	14.5	1.48	0.31	0.37	52	0.29	0.082
17KG0009 Sedime	Sediment Pulp	12.72	13.79	99.04	325.9	233	10.2	31.7 >	>10000	3.09	9.6	1.1	9.0	0.3	24.2	6.37	0.51	0.25	22	0.46	0.111
17KG0010 Sedime	Sediment Pulp	5.23	26.50	90.52	163.4	418	6.2	0.7	728	1.22	<0.1	3.2	9.0	<0.1	13.8	2.24	0.40	0.24	56	0.22	0.116
17KG0011 Sedime	Sediment Pulp	7.26	10.60	50.72	200.0	70	10.2	13.3	2131	2.86	6.9	1.1	0.2	1.6	12.1	1.74	0.32	0.22	53	0.33	0.050
17KG0012 Sedime	Sediment Pulp	2.27	18.23	61.00	143.8	323	9.0	11.0	1037	2.02	9.1	3.1	0.3	0.3	29.9	2.26	0.53	0.18	43	99.0	0.085
17CS0003 Sedime	Sediment Pulp	0.59	8.92	21.71	91.9	5	12.4	8.6	652	1.85	35.0	2.2	9.0	0.8	12.6	0.45	0.56	0.10	4	0.27	0.050
17CS0004 Sedime	ent Pulp	0.81	9.35	32.21	150.8	29	9.6	7.3	808	2.06	21.0	3.5	9.0	1.1	15.9	1.35	0.42	0.15	42	0.29	0.044
17CS0005 Sedime	ent Pulp	1.07	10.97	36.88	150.4	107	9.6	5.7	920	1.56	26.9	5.4	0.4	4.0	11.8	1.16	0.73	0.17	31	0.26	0.066
17GB0007 Sedime	Sediment Pulp	0.94	12.98	21.89	128.9	52	15.2	9.3	789	5.09	6.7	6.0	0.3	1.2	13.9	99.0	0.33	0.12	37	0.28	0.048
17GB0008 Sedime	Sediment Pulp	1.74	20.07	35.29	208.0	116	17.5	13.0	2745	2.58	13.7	2.2	9.4	0.5	20.1	2.19	0.44	0.17	45	0.64	0.077
17GB0009 Sedime	Sediment Pulp	2.55	31.99	49.90	206.7	171	14.7	12.0	3121	2.19	9.4	1.2	1.0	0.3	27.4	2.13	0.46	0.21	4	96.0	0.103
17GB0010 Sedime	Sediment Pulp	8.02	18.07	60.50	403.3	233	18.7	31.0 >	>10000	3.64	15.9	1.8	0.4	0.3	29.1	4.23	0.35	0.24	28	92.0	0.137
	Sediment Pulp	7.33	22.34	76.09	253.9	260	9.8	9.5	2898	1.44	9.7	2.4	1.2	0.1	29.4	3.69	0.53	0.21	23	0.81	0.107
17GB0012 Sedime	Sediment Pulp	3.07	36.03	29.56	165.1	183	13.7	12.3	3776	1.77	8.2	1.5	0.7	<0.1	40.4	2.30	0.58	0.13	33	1.60	0.118

	MINERAL LABORATORIES	Canada
ALTAS WALLANDER WALL	BUREAU	VERITAS

Nova Scotia Dept. of Natural Resources 1701 Holls St. P.O. Box 698 Halifax Nova Scotia B3J 2T9 Canada November 29, 2017 None Given Project: Report Date: Client: www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
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	Method	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250 AQ250 AQ250 AQ250		AQ250 AQ250		AQ250	AQ250 AQ250		AQ250	AQ250	AQ250
	Analyte	La	ប៉	Mg	Ba	F	Φ	₹	S.	¥	≥	လွ	F	Ø	£	Se	<u>a</u>	g
	Unit	mdd	шdd	%	mdd	%	mdd	*	%	%	mdd	шдд	mdd	%	qdd	mdd	шdd	шdd
	MDL	0.5	0.5	0.01	9.0	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	2	0.1	0.02	0.1
16GB0218	Sediment Pulp	31.4	18.4	0.77	109.1	0.144	<20	2.14	0.014	0.05	<0.1	3.3	0.72	0.14	190	1.9	<0.02	6.3
16GB0235	Sediment Pulp	18.3	15.5	0.43	57.1	0.077	<20	0.82	0.008	0.06	0.2	2.5	0.15	0.02	35	0.2	<0.02	3.3
16GB0236	Sediment Pulp	15.6	4.4	0.42	46.8	0.072	<20	0.79	600.0	0.06	0.2	2.4	0.14	0.03	33	0.2	<0.02	3.3
16GB0237 S	Sediment Pulp	16.1	12.1	0.42	58.1	0.067	^{<20}	0.85	600.0	0.06	0.2	2.8	0.17	0.05	59	0.1	<0.02	3.1
16GB0240 S	Sediment Pulp	20.4	15.4	0.33	41.0	0.054	<20	0.81	0.007	0.06	0.1	2.1	0.20	<0.02	8	0.3	<0.02	3.1
16GB0243	Sediment Pulp	19.3	14.7	0.36	41.3	0.060	² 20	08.0	0.005	0.06	0.1	2.2	0.25	<0.02	30	0.2	<0.02	2.9
16GB0245	Sediment Pulp	19.7	14.8	0.35	27.5	0.060	×20	0.82	0.005	0.06	0.2	2.4	0.18	0.04	56	4.0	<0.02	3.2
16DB194	Sediment Pulp	11.8	18.2	0.51	51.1	0.155	² 20	1.00	0.013	0.05	4 0.1	2.5	0.07	<0.02	32	0.1	<0.02	3.6
16DB201	Sediment Pulp	17.7	20.6	0.48	45.8	0.178	<20	0.84	0.013	0.05	1 .0×	2.5	0.05	<0.02	22	4.0	<0.02	3.3
16DB204	Sediment Pulp	27.0	23.3	0.50	109.9	0.067	<20	1.53	0.011	0.12	0.2	3.9	0.34	0.03	94	9.0	<0.02	4.6
16DB205	Sediment Pulp	83.4	18.0	0.48	83.3	0.059	<20	3.47	0.016	0.08	0.1	2.8	3.93	0.11	165	2.0	<0.02	4.5
17KG0001	Sediment Pulp	19.3	21.3	0.56	52.5	0.110	<20	1.38	0.010	0.06	0.1	3.3	0.19	0.03	45	0.4	<0.02	4.6
17KG0002	Sediment Pulp	27.2	21.5	0.46	83.2	0.076	<20	1.86	0.008	0.05	<0.1	2.5	0.43	0.10	131	1.5	<0.02	5.1
17KG0003	Sediment Pulp	21.0	25.2	0.72	53.9	0.168	<20	1.87	600.0	0.05	0.1	4.1	0.30	0.04	52	0.5	<0.02	6.2
17KG0004	Sediment Pulp	38.1	19.2	0.46	45.2	0.123	<20	1.43	0.008	0.04	0.2	3.6	0.33	90:0	82	1.1	<0.02	5.7
17KG0004C	Sediment Pulp	15.1	61.3	0.55	38.2	0.061	<20	1.03	0.019	0.08	0.2	3.4	0.08	<0.02	104	0.1	<0.02	3.7
17KG0005	Sediment Pulp	22.2	18.5	0.33	47.0	0.108	<20	1.70	0.007	0.04	0.1	2.1	0.54	0.11	175	2.2	<0.02	6.9
17KG0009	Sediment Pulp	62.5	17.4	0.19	167.0	0.075	<20	1.27	0.010	0.04	<0.1	2.7	1.45	0.17	198	5.6	<0.02	6.7
17KG0010	Sediment Pulp	202.6	17.2	0.16	34.1	0.046	<20	2.84	0.005	0.03	0.2	2.4	0.37	0.20	255	7.7	<0.02	3.8
17KG0011	Sediment Pulp	37.2	19.1	0.37	43.9	0.165	<20	1.16	0.007	0.04	0.1	3.4	0.40	0.05	24	9.0	<0.02	7.6
17KG0012 8	Sediment Pulp	83.5	29.7	0.25	44.5	0.094	<20	2.25	0.008	0.04	0.2	4.5	0.80	0.12	167	4.2	<0.02	5.2
17CS0003 S	Sediment Pulp	25.0	16.6	0.37	43.1	0.091	<20	1.26	0.008	0.04	0.2	2.6	0.21	0.03	20	0.5	<0.02	4.0
17CS0004	Sediment Pulp	49.5	15.4	0.22	14.1	0.081	<20	1.84	0.007	0.04	0.1	2.0	0.46	0.05	71	1.4	<0.02	5.6
17CS0005	Sediment Pulp	68.8	15.5	0.20	41.3	0.053	<20	2.28	0.007	0.05	0.2	1.9	0.57	0.09	100	2.0	<0.02	5.3
17GB0007	Sediment Pulp	23.4	17.0	0.41	43.6	0.052	<20	1.09	0.005	0.06	0.1	2.5	0.26	0.03	4	4.0	<0.02	3.9
17GB0008	Sediment Pulp	64.3	19.9	0.40	54.4	0.046	<20	1.40	0.005	0.06	0.1	3.1	0.66	0.07	100	1.0	<0.02	4.9
17GB0009	Sediment Pulp	52.5	18.9	0.42	54.2	0.068	<20	1.44	0.007	0.04	0.1	2.5	0.53	0.14	199	1.9	<0.02	4.5
17GB0010 S	Sediment Pulp	72.4	25.7	0.52	155.0	0.075	<20	1.94	0.007	0.05	<0.1	2.8	1.51	0.16	226	1.9	<0.02	6.2
17GB0011 S	Sediment Pulp	117.7	12.7	0.22	73.0	0.022	<20	1.63	0.008	0.05	0.3	1.0	1.18	0.16	192	3.0	<0.02	3.7

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Sediment Pulp

BUREAU MINERAL LABORATORIES Bureau Veritas Commodities Canada Ltd.

VERITAS

Nova Scotia Dept. of Natural Resources 1701 Hollis St. Client:

P.O. Box 698

Halifax Nova Scotia B3J 2T9 Canada

None Given Project:

www.bureauveritas.com/um

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada PHONE (604) 253-3158

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Method	AQ250 A	AQ250 A	AQ250 AC	AQ250 AQ	AQ250 AC	AQ250 A	AQ250 /	AQ250 /	AQ250	AQ250	AQ250	AQ250 ,	AQ250	AQ250 /	AQ250 /	AQ250 /	AQ250 /	AQ250	AQ250	AQ250
Mo Cu Pb	_	₫	,c	Zu	Ag	Z	ပိ	M	Fe	As	_	Ϋ́	£	ស៊	공	Sp	B	>	S	Δ.
wdd wdd wdd		Шdd		mdd	qdd	mdd	mdd	mdd	%	mdd	mdd	qdd	mdd	mdd	mdd	mdd	mdd	mdd	%	%
0.01 0.01 0.01		0.0		0.1	2	0.1	0.1	-	0.01	0.1	0.1	0.2	0.1	9.6	0.01	0.02	0.02	2	0.01	0.001
2.21 17.08 47.87		47.87	. 4	213.4	80	19.1	13.4	1489	2.77	10.1	1.1	9.0	8.0	15.9	1.19	0.40	0.18	22	0.48	0.068
1.56 12.58 29.86 1	29.86			165.4	20	15.4	10.6	1236	2.30	8.1	8.0	0.3	1.0	14.3	1.22	0.37	0.12	43	0.43	0.056
1.67 13.52 113.53 21	113.53		Σ.	217.5	175	12.2	7.3	270	1.65	13.8	2.4	0.4	9.0	12.3	1.97	1.26	0.23	33	0.27	0.062
0.87 13.73 99.66 244.8	99.66		44	8.	77	15.1	9.0	461	2.13	21.1	1.7	0.2	1.3	16.8	3.85	1.11	0.18	45	0.34	0.053
1.22 22.27 140.94 412.7	140.94		112	7	154	20.4	11.8	266	2.57	45.9	2.2	9.0	1.1	27.5	6.46	1.57	0.19	22	0.55	0.069
0.45 17.61 65.76 193.2	. 92:29	ı l	193	2	29	20.5	11.6	206	2.54	16.0	1.3	<0.2	1.5	42.8	2.74	0.50	0.14	48	0.44	0.048
0.45 15.00 58.60 163.8	58.60	ľ	163.	m	56	18.9	10.6	1161	2.48	14.6	1.3	9.0	1.7	37.4	2.13	0.43	0.12	48	0.38	0.045
1.63 14.10 57.99 321.0	65.73		21.	0	149	19.6	13.0	2090	2.90	27.4	3.3	0.5	0.7	27.2	1.87	0.42	0.22	59	0.44	0.081
0.41 21.66 23.75 95.2	66 23.75		92	7	46	28.6	16.3	803	3.69	6.2	1.0	0.5	1.6	37.0	0.45	0.31	0.13	98	0.69	0.074
0.56 18.75 30.39 158.6	30.39		158	9.	52	23.3	13.8	832	2.98	13.9	1.3	9.0	1.5	31.8	1.49	0.46	0.10	65	0.61	0.058
0.45 13.67 21.60 118	21.60		≝	118.6	25	20.3	13.6	813	2.63	7.6	1.0	9.0	1.0	34.5	0.93	0.28	0.11	53	0.57	0.053

0.053 0.069 0.048 0.045 0.058 0.058 0.053 0.053 0.050

0.045 0.048 0.047 0.088

0.40

0.34

0.44 0.55 0.73 1.02 0.46 0.56 0.80 0.55 0.67 0.62 0.28

0.08 2.09 2.49

1.3 2.6 0.7 0.6 0.6

9.2 0.3 0.4

4. 6. 2.4

18.5 18.9

> 1043 2054

9.9

86 149

220.1

49.59 30.99

12.25

14.88 16.92 19.84 23.78 15.95

2.36

Sediment Pulp Sediment Pulp Sediment Pulp Sediment Pulp

17GB0033

17GB0034

17GB0036 17GB0038

17GB0037

0.52 2.39 1.45 2.86 5.05

19.6 18.5 18.3

22

100.9

14.79

0.1

2.87 2.65 3.15 1.83 2.06 2.00

287 813

23.8 20.9 24.7 28.6 16.2 14.9

504

188.3 311.6 187.1 155.6

36.10 35.33 41.81 32.13

0.58 0.69

16.96

0.43 0.50

Sediment Pulp

Sediment Pulp Sediment Pulp

17GB0030C 17GB0031 17GB0032

17GB0028 17GB0029 17GB0030

8 8 6

9.0

0.056

0.38 0.51

61

0.15 0.11 0.22 0.14 0.24 0.22 0.28 0.22

1.64 0.38 1.39 1.43 2.89 1.07 1.42 7.23

19.9 15.0

2.8

<0.2

26.1 16.6 25.4

3583 896

12.9 14.7 14.8 12.2

22.8

133

12.3 6.3 13.8

253.9

69.49 60.42

2.51

3.24 2.73 2.84 2.64 1.74 3.46

1887 533 1210

14.5 9.2 17.9

237 228 141 343 192 170

154.7

224.1

27.89 30.20

Sediment Pulp

17GB0039

17GB0041

Sediment Pulp

4.0

0.9 6. 6.0 6. 1.3

2.95

28

0.090 0.056 0.091 0.093 0.095 0.095

0.17

0.33 0.28

49 36 6 37 53

0.44 0.50 0.86 0.67 0.48 0.69

55 37 61

0.31

26.2 15.8 24.9 20.9

0.5 0.5 0.1 0.4

0.4 1.0 0.8 0.6 0.7 0.3 0.3

19.8 2.3 16.7

> 2.82 1.71 3.20

> > 839

10.6

249.6

63.62

21.07

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0.7

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0.78	1.41	
4.	12.4	
٦.	2.0	
×0.7	<0.2	
4.	1.8	
9.	9.7	
2.29	2.69	
285	1476	
9.0	11.7	
14.4	15.0	
Ç	65	
117.1	251.2	
35.11	49.17	
17.98	17.49	
1.68	2.60	
Segiment Pulp	Sediment Pulp	
1/680050	17GB0053	

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.

ATTAS HITAS	/ 80 B/

BUREAU MINERAL LABORATORIES Bureau Veritas Commodities Canada Ltd.

VERITAS

Nova Scotia Dept. of Natural Resources 1701 Holls St. Halifax Nova Scotia B3J 2T9 Canada P.O. Box 698 None Given Client: Project:

Report Date:

www.bureauveritas.com/um

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada PHONE (604) 253-3158

CERTIFICATE OF ANALYSIS

November 29, 2017

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This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



Nova Scotia Dept. of Natural Resources 1701 Holls St. P.O. Box 696 Client:

Halifax Nova Scotia B3J 2T9 Canada

None Given

www.bureauveritas.com/um

MINERAL LABORATORIES

B U R E A U V E R I T A S

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada PHONE (604) 253-3158

November 29, 2017 Project: Report Date:

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	Analyte	AQ250 Mo	AQ250	AQ250	AQ250 Zn	AQ250 Ag	AQ250 Ni	AQ250	AQ250 Mn	AQ250 , Fe	AQ250 , As	AQ250 ,	AQ250 /	AQ250 √ Th	AQ250 / Sr /	A0250 Cd	AQ250 Sb	AQ250 Bi	AQ250	AQ250 Ca	AQ250
	Onit	шdd	mdd	шdd	Шdd	dq	mdd	шdd	mdd	%	шdd	mdd	qdd	mdd	mdd	Шdd	шdd	mdd	mdd	%	%
	MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	-	0.01	0.1	0.1	0.2	0.1	9.6	0.01	0.02	0.02	2	0.01	0.001
17GB0054 S	Sediment Pulp	2.31	22.92	73.82	386.1	165	24.7	17.2	2009	3.64	20.0	1.7	0.3	1.2	19.2	3.01	0.51	0.18	22	99:0	0.082
17GB0055 S	Sediment Pulp	2.27	24.38	73.23	352.3	181	16.0	12.4	2471	2.20	9.3	1.6	<0.2	0.5	19.3	3.64	0.44	0.20	36	0.54	0.090
	Sediment Pulp	4.02	29.57	57.47	441.0	290	16.8	12.9	1641	2.31	15.9	2.7	0.3	9.0	34.3	3.87	0.44	0.22	4	1.04	0.076
17GB0056C S	Sediment Pulp	0.55	20.11	17.46	39.3	1554	30.4	10.5	293	1.88	88.8	1.2	1.4	2.8	19.0	0.10	0.55	0.56	32	0.48	0.047
17GB0057 S	Sediment Pulp	2.97	14.85	46.42	258.2	87	13.4	11.5	1542	2.39	8.9	1.9	0.2	1.5	11.8	1.55	0.35	0.15	47	0.32	0.049
	Sediment Pulp	4.90	18.71	68.03	387.8	180	15.0	13.0	1643	2.54	9.6	3.9	0.5	1.1	14.3	1.58	0.40	0.21	52	0.40	0.063
17GB0059 S	Sediment Pulp	5.15	17.73	74.10	216.4	105	12.4	13.6	2068	2.12	5.6	1.2	<0.2	6.0	14.2	2.26	0.31	0.18	38	0.29	0.052
17GB0060 S	Sediment Pulp	5.37	23.50	141.94	365.3	186	12.6	13.4	3574	2.24	8.8	1.5	<0.2	0.3	21.4	4.48	0.43	0.21	42	0.46	0.089
17GB0061 S	Sediment Pulp	8.92	19.83	97.14	274.3	160	14.1	21.5	3546	2.34	4.3	1.7	<0.2	7.0	15.9	2.61	0.26	0.20	40	0.32	0.070
17GB0062 S	Sediment Pulp	14.12	21.48	142.71	223.7	274	11.2	27.2	4739	2.40	3.7	2.1	0.5	0.5	16.9	2.22	0.28	0.24	46	0.32	0.081
17GB0063 S	Sediment Pulp	41.79	19.28	128.54	203.8	304	9.6	38.2 >	>10000	2.88	6.9	2.2	0.3	0.3	20.5	2.70	0.43	0.33	20	0.34	0.122
17GB0064 S	Sediment Pulp	0.44	12.81	24.29	99.7	25	14.9	10.1	564	2.34	4.7	9.0	685.8	2.4	19.0	0.47	0.40	0.11	48	0.35	0.044
17GB0065 S	Sediment Pulp	15.77	26.66	216.78	203.5	202	8.9	15.9	3281	1.59	1.5	3.4	9.0	0.2	15.0	1.74	0.27	0.25	31	0.26	0.091
17GB0072 S	Sediment Pulp	1.04	19.53	35.98	171.7	99	14.6	10.7	1054	5.09	5.9	6.0	0.3	1.0	22.0	1.43	0.57	0.11	40	0.48	0.055
17GB0074 S	Sediment Pulp	0.44	19.63	43.51	112.1	06	18.6	15.4	1007	3.47	13.9	0.7	<0.2	1.1	35.1	0.67	1.80	0.10	82	0.92	0.081
17GB0075 S	Sediment Pulp	0.57	11.58	33.34	114.7	70	14.1	8.6	939	1.95	12.2	0.7	0.3	0.8	18.7	0.60	0.36	0.09	4	0.35	0.044
17GB0076 S	Sediment Pulp	0.72	17.68	62.32	117.4	145	15.3	12.6	1564	2.81	14.0	8.0	<0.2	0.5	32.3	0.71	0.62	0.13	65	0.77	0.085
17GB0078 S	Sediment Pulp	0.61	26.15	44.66	94.4	172	10.7	8.9	1218	1.69	10.8	1.0	4.2	0.2	54.9	1.24	99.0	0.16	42	1.35	0.101
17GB0080 S	Sediment Pulp	0.78	28.12	45.11	110.5	186	11.4	9.7	1987	1.76	17.1	1.5	3.1	0.2	45.5	1.58	0.45	0.18	42	1.12	0.113
17GB0082 S	Sediment Pulp	0.57	18.19	62.84	146.1	52	18.7	13.9	838	2.91	10.3	9.0	1.1	2.0	16.0	0.54	0.32	0.11	63	0.46	0.059
17GB0089 S	Sediment Pulp	0.21	18.04	19.50	73.0	10	29.9	15.0	658	3.24	3.6	1.0	9.0	7.4	20.4	0.09	0.17	0.25	4	0.96	0.053
17GB0090 S	Sediment Pulp	8.50	17.92	132.62	285.8	309	14.2	22.5	5803	2.57	5.8	1.0	11.5	0.4	18.1	3.09	0.45	0.21	20	0.42	0.097
17GB0091 S	Sediment Pulp	6.41	15.14	128.52	298.4	529	14.5	19.9	6671	2.68	7.9	1.1	2.0	0.3	15.2	2.72	0.55	0.23	51	0:30	0.122
17GB0092 S	Sediment Pulp	10.51	16.53	157.29	215.9	434	11.5	15.4	2030	2.03	3.4	1.3	3.1	0.3	12.2	2.48	0.39	0.25	33	0.25	0.108
17GB0097 S	Sediment Pulp	3.74	19.03	82.72	226.8	137	14.4	21.9	4572	2.37	9.7	6.0	10.0	6.0	15.6	2.15	0.35	0.18	33	0.31	0.069
	Sediment Pulp	2.32	17.92	71.55	304.3	138	19.2	15.9	1907	2.48	11.7	6.0	1.2	6.0	14.0	1.23	0.42	0.16	44	0.35	0.072
17GB0099 S	Sediment Pulp	5.36	13.43	108.16	139.1	201	6.6	10.7	816	2.01	4.5	1.1	1.3	0.5	9.9	0.39	0.31	0.22	37	0.13	0.062
17GB0100 S	Sediment Pulp	18.41	20.43	268.70	290.1	453	12.9	63.9	>10000	3.53	10.1	1.2	14.0	0.3	17.5	4.09	0.55	0.29	61	0.31	0.126
O	Sediment Pulp	0.55	20.45	18.60	41.7	1597	31.7	10.8	331	1.98	92.8	1.2	2.1	3.1	20.1	0.11	0.54	0.35	34	0.50	0.047
17GB0101 S	Sediment Pulp	17.86	23.74	192.72	107.7	339	6.8	51.4	9677	5.97	8.9	1.2	14.7	0.4	12.2	0.90	0.32	0.45	46	0.21	0.094

	MINERAL LABORATORIES	Canada
ATAS BENEFITAS BENEF	BUREAU	VERITAS

Nova Scotia Dept. of Natural Resources 1701 Hollis St. P.O. Box 698 Halifax Nova Scotia B3J 2T9 Canada None Given November 29, 2017 Project: Report Date: Client: www.bureauveritas.com/um

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada PHONE (604) 253-3158

Bureau Veritas Commodities Canada Ltd.

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AQ250	g	mdd	0.1	7.0	4.6	5.7	3.8	5.4	7.2	4.4	6.1	4.7	5.6	6.0	3.8	4.7	4.1	6.4	4.1	5.9	4.5	4.7	5.2	5.0	5.9	7.1	6.4	6.4	5.8	8.4	7.8	4.0	4.5
AQ250	ē	mdd	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.04	<0.02	0.02
AQ250	Se	mdd	0.1	1.1	2.0	2.3	0.2	0.7	1.5	1.3	2.1	1.8	2.5	3.8	0.2	3.1	1.0	8.0	0.5	6.0	2.3	2.2	0.4	<0.1	1.7	2.2	2.2	1.1	1.1	1.6	2.5	0.2	2.5
AQ250 ,	Ð	qdd	5	83	112	146	103	45	87	88	144	86	132	319	23	227	71	69	43	119	136	136	27	7	156	244	238	107	97	135	283	115	249
AQ250	Ø	%	0.02	90:0	0.12	0.13	<0.02	0.04	90:0	0.05	0.10	0.07	0.10	0.17	<0.02	0.13	0.05	90:0	0.04	60:0	0.15	0.15	<0.02	<0.02	0.11	0.13	0.18	0.07	90:0	0.07	0.16	<0.02	0.20
AQ250	F	mdd	0.02	0.47	0.44	0.38	0.07	0.24	0.34	0.32	0.61	0.46	0.61	96.0	0.09	0.42	0.17	0.21	0.35	0.29	0.25	0.36	0.16	0.12	0.55	0.65	0.40	0.39	0.31	0.28	1.02	0.07	0.44
AQ250	Sc	mdd	0.1	5.4	2.5	4.0	3.4	3.2	4.0	2.3	2.5	2.7	2.8	2.1	2.8	1.7	3.0	5.5	3.4	4.2	3.0	4.9	4.2	4.3	2.8	2.2	1.7	2.5	3.3	2.2	1.9	3.6	1.7
AQ250	≥	mdd	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.2	0.1	0.1	<0.1	<0.1	<0.1	0.1	0.1	0.1	0.1	0.1	0.1	^0.1
AQ250	¥	%	0.01	0.06	0.07	0.06	0.08	0.04	0.05	0.05	0.05	0.06	0.04	0.05	0.05	0.0	0.06	0.06	0.04	0.05	0.05	0.06	0.05	0.23	0.05	0.05	0.05	0.06	0.06	0.05	0.06	0.09	0.04
AQ250	R	%	0.001	0.008	0.008	0.010	0.019	0.007	0.007	0.004	900.0	0.006	0.005	0.008	0.010	0.007	0.009	0.009	0.006	0.008	0.010	0.008	0.009	0.010	900.0	0.006	0.006	900.0	900.0	0.005	0.008	0.022	0.009
AQ250	₹	%	0.01	2.28	1.54	1.55	1.05	1.24	1.72	1.19	1.74	1.59	1.86	1.62	76.0	2.34	1.17	1.82	1.16	1.91	1.36	1.51	1.40	1.42	1.90	2.18	1.67	1.35	1.79	1.42	2.00	1.11	1.50
AQ250	œ	mdd	20	<20	<20	×20	<20	<20	<20	<20	^{<50}	<20	<20	<20	<20	<20	<20	^{<50}	<20	<20	<20	<20	<20	<20	<20	×20	<20	<20	<20	<20	<20	<20	<20
AQ250	F	%	0.001	0.163	0.053	0.064	0.061	0.122	0.126	0.066	0.064	0.063	0.082	0.047	0.134	0.050	0.094	0.233	0.089	0.132	0.087	0.058	0.174	0.020	0.092	0.091	0.061	0.068	0.102	090.0	0.064	0.065	0.031
AQ250	Ba	mdd	0.5	76.8	70.5	84.2	39.7	44.9	47.0	61.5	77.9	76.4	71.8	86.9	40.8	59.1	63.6	56.4	54.6	61.9	55.2	77.3	52.3	140.6	69.5	58.0	56.9	76.4	56.3	26.4	115.5	40.6	69.3
AQ250	Mg	%	0.01	0.87	0.39	0.40	0.57	0.44	0.46	0.34	0.36	0.36	0.32	0.20	0.47	0.20	0.42	0.65	0.38	0.48	0.31	0.34	0.68	0.78	0.38	0.37	0.28	0.37	0.47	0.30	0.23	0.60	0.14
AQ250	ວັ	mdd	0.5	26.6	18.6	31.9	58.3	18.5	22.5	17.6	20.1	21.4	21.0	21.6	18.3	17.1	16.9	23.5	18.8	21.2	22.8	29.7	20.5	27.6	17.4	18.7	18.5	16.3	20.1	15.9	19.8	62.1	14.0
AQ250	La	mdd	0.5	67.3	56.0	80.8	15.4	27.0	50.1	31.7	57.6	35.4	41.2	27.9	15.4	52.5	20.2	14.9	12.5	19.6	17.0	23.3	15.9	16.5	33.2	30.7	19.6	21.6	27.3	25.8	24.5	16.9	23.4
Method	Analyte	Unit	MDL	Sediment Pulp	Sediment Pulp	Sediment Pulp	Sediment Pulp	Sediment Pulp	Sediment Pulp	Sediment Pulp	Sediment Pulp	Sediment Pulp	Sediment Pulp	Sediment Pulp	Sediment Pulp	Sediment Pulp	Sediment Pulp	Sediment Pulp	Sediment Pulp	Sediment Pulp	Sediment Pulp	Sediment Pulp	Sediment Pulp	Sediment Pulp	Sediment Pulp	Sediment Pulp							
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This report supersades all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval, preliminary reports are unsigned and should be used for reference only.



Nova Scotia Dept. of Natural Resources 1701 Holls St. P.O. Box 698 Client:

Halifax Nova Scotia B3J 2T9 Canada

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BUREAU MINERAL LABORATORIES
VERITAS Canada Bureau Veritas Commodities Canada Ltd. 9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada PHONE (604) 253-3158

None Given November 29, 2017 Project: Report Date:

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Part

VAN17002654.1 **CERTIFICATE OF ANALYSIS**

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Nova Scotia Dept. of Natural Resources 1701 Holls St. P.O. Box 698 Halifax Nova Scotia B3J 2T9 Canada None Given November 29, 2017 Project: Report Date: Client: www.bureauveritas.com/um

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada PHONE (604) 253-3158 BUREAU MINERAL LABORATORIES
VERITAS Canada Bureau Veritas Commodities Canada Ltd.

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CERTIFICATE OF ANALYSIS

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AQ250	Se	mdd	0.1	3.7	0.2	0.5	1.	6.2	3.5	4.8	3.4	1.9	3.1	0.1	6.0	9.0	0.3	4.0	0.5	9.0	1.2	1.8	1.5	2.7	0.7	1.0	1.1	1.1	1.1	1.6	4.0	
AQ250	Ð	qdd	2	245	46	29	65	166	207	205	159	173	242	126	145	28	45	25	93	80	75	97	106	122	20	79	85	73	83	148	20	
AQ250	Ø	%	0.02	0.19	<0.02	0.04	90.0	0.18	0.17	0.17	0.22	0.11	0.19	<0.02	0.08	0.04	<0.02	<0.02	0.04	0.05	0.05	90.0	0.09	0.10	0.04	90.0	0.07	90.0	0.07	0.08	0.04	
AQ250	F	mdd	0.02	1.08	0.13	0.26	0.22	0.88	0.71	0.55	0.25	0.74	2.24	0.08	0.40	0.54	0.46	0.41	0.38	0.47	99.0	1.05	1.03	0.81	0.31	0.22	0.31	0.26	0.40	0.62	0.13	
AQ250	လွ	mdd	0.1	2.7	3.5	3.6	3.3	2.2	1.3	1.5	2.7	2.6	2.1	3.6	5.8	2.5	3.2	3.0	3.4	2.7	3.0	3.4	2.3	2.3	3.2	3.3	2.6	5.3	2.6	2.6	2.4	
AQ250	≥	mdd	0.1	0.1	0.1	0.2	0.3	0.2	0.1	1.0	0.7	0.1	0.1	0.1	6 0.1	0.2	0.3	0.3	0.1	0.2	4.0	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	<0.1	40.1	
AQ250	¥	%	0.01	0.06	0.05	0.05	0.03	0.05	0.05	0.04	0.03	0.05	0.05	0.09	0.11	0.08	0.11	0.11	0.11	0.13	0.08	0.10	0.07	0.06	0.06	0.05	0.05	0.06	0.10	0.03	0.07	
AQ250 ,	Ŗ	%	0.001	600.0	0.008	0.010	0.008	600.0	0.008	0.007	0.008	0.005	0.008	0.021	0.007	600.0	600.0	0.007	600.0	0.007	600.0	0.014	600.0	0.010	0.008	600.0	0.010	0.012	600.0	0.005	0.008	
	₹	%	0.01	1.97	1.15	1.60	1.41	2.21	2.19	3.15	1.62	1.73	1.67	1.09	2.50	1.45	1.40	1.33	1.86	1.71	1.75	2.65	2.23	2.45	1.66	1.59	1.71	2.49	1.70	1.89	1.10	
AQ250 AQ250	m	mdd	20	<20	<20	<20	<20	<20	<20 <	<20	<20	×20	<20 <	<20	<20 <	×20	<20	<20	<20	<20	² 20	<20	<20	<20	450 450	<20 <	<20	<20	<20	<20	<20	
AQ250 /	F	%	0.001	0.037	0.125	0.186	0.132	0.046	0.052	0.044	0.068	0.109	0.047	0.065	0.047	0.057	0.086	0.081	0.049	0.069	0.074	0.085	0.066	0.057	0.169	0.153	0.119	0.225	0.070	0.099	0.093	
AQ250	Ba	mdd	9.0	102.9	42.1	41.6	42.9	89.8	124.2	36.2	56.8	53.9	289.0	40.3	214.4	78.1	72.3	65.6	130.4	62.7	73.1	91.1	69.7	65.2	8.09	55.9	52.3	90.6	76.2	60.3	45.1	
AQ250 /	Mg	%	0.01	0.14	0.58	0.64	0.45	0.23	0.28	0.19	0.26	0.38	0.21	0.59	0.73	0.40	0.51	0.51	0.39	0.46	0.41	0.45	0.32	0.26	0.63	0.62	0.50	0.81	0.34	0.25	0.47	
AQ250 /	ŏ	шdd	0.5	15.7	20.5	25.9	17.5	17.5	15.7	17.9	19.4	19.0	14.9	60.3	29.3	19.0	20.8	18.8	22.3	18.8	18.4	20.2	16.8	16.0	19.4	20.5	17.2	25.3	16.1	17.9	17.0	
AQ250 /	La	mdd	9.0	39.1	14.0	17.1	34.0	144.8	65.5	73.0	82.3	45.7	8.99	16.1	44.6	42.7	30.6	27.3	37.5	46.0	53.7	62.7	50.2	89.8	27.7	19.1	27.6	23.9	35.8	23.5	13.8	
Method	Analyte	Chrit	MDL	Sediment Pulp	Sediment Pulp	Sediment Pulp	Sediment Pulp	Sediment Pulp	Sediment Pulp	Sediment Pulp	Sediment Pulp	Sediment Pulp	Sediment Pulp	Sediment Pulp																		
				17GB0102	17GB0103	17GB0104	17GB0105	17GB0106	17GB0107	17GB0108	17GB0109	17GB0110	17GB0111	17GB0111C	17GB0112	17GB0113	17GB0114	17GB0115	17GB0116	17GB0117	17GB0118	17GB0119	17GB0120	17GB0121	17GB0122	17GB0123	17GB0124	17GB0125	17GB0126	17GB0127A	17GB0128A	



Nova Scotia Dept. of Natural Resources 1701 Hollis St. Client:

P.O. Box 698

Halifax Nova Scotia B3J 2T9 Canada

None Given

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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada PHONE (604) 253-3158

Bureau Veritas Commodities Canada Ltd.

CERTIFICATE OF ANALYSIS

November 29, 2017

Project: Report Date:

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Part:

VAN17002654.1

AQ250

Mo Cu Pb Zn Ag ppm ppm ppm ppm ppb 1.74 1.73 4.648 228.0 90 1.65 1.77 46.48 228.0 90 1.67 1.67 43.6 226.5 85 1.77 1.607 43.86 200.4 71 1.78 19.39 766.5 317.9 70 2.19 16.97 48.60 209.2 76 2.29 1.54 52.09 284.3 63 2.04 18.75 12.13 315.8 79 2.29 1.407 100.92 34.46 154 2.01 14.75 14.56 217.5 99 3.70 14.75 41.56 217.5 99 3.70 14.75 40.99 145 200 2.73 12.37 50.39 194.4 208 1.68 16.31 50.39 194.4 20	AQ250 AQ250 AQ250	AQ250	AQ250 A	AQ250 A	AQ250 A	AQ250 A	AQ250 /	AQ250 A	AQ250 /	AQ250 /	AQ250 A	AQ250 A	AQ250 AC
ppm ppm <th>Ag Ni Co</th> <th>M</th> <th>Fe</th> <th>As</th> <th>></th> <th>Ā</th> <th>£</th> <th>ര്</th> <th>8</th> <th>Sp</th> <th>ā</th> <th>></th> <th>ပ္မ</th>	Ag Ni Co	M	Fe	As	>	Ā	£	ര്	8	Sp	ā	>	ပ္မ
0.01 0.04 0.01 0.02 0.02 0.02 0.03 <th< th=""><th>mdd mdd dd</th><th>mdd</th><th>%</th><th>шdd</th><th>mdd</th><th>qdd</th><th>mdd</th><th>mdd</th><th>шdd</th><th>mdd</th><th>mdd</th><th>mdd</th><th>%</th></th<>	mdd mdd dd	mdd	%	шdd	mdd	qdd	mdd	mdd	шdd	mdd	mdd	mdd	%
1.74 17.73 46.48 228.0 90 1.65 16.88 45.70 225.5 85 1.77 15.07 43.36 200.4 71 1.78 19.39 76.65 317.9 70 2.19 16.97 48.60 209.2 76 2.40 18.75 121.31 315.8 76 2.29 13.28 46.80 194.8 79 5.32 14.07 100.92 434.6 154 5.32 14.07 100.92 434.6 154 5.32 14.07 100.92 434.6 154 5.32 14.07 10.92 434.6 154 5.03 14.78 43.9 106 5.05 19.70 17.49 38.3 158 5.05 19.70 40.39 135.5 173 5.05 19.71 40.39 135.5 173 5.05 19.74 208 173 <td< th=""><th>2 0.1 0.1</th><th>1</th><th>0.01</th><th>0.1</th><th>0.1</th><th>0.2</th><th>0.1</th><th>9.5</th><th>0.01</th><th>0.02</th><th>0.02</th><th>2</th><th>0.01</th></td<>	2 0.1 0.1	1	0.01	0.1	0.1	0.2	0.1	9.5	0.01	0.02	0.02	2	0.01
1.65 16.88 45.70 225.5 85 1.77 15.07 43.36 200.4 71 1.78 19.39 76.65 317.9 70 2.19 16.37 48.60 209.2 76 2.40 18.75 121.31 315.8 63 2.20 13.28 46.80 194.8 79 2.20 13.28 46.80 194.8 79 2.20 13.28 46.80 194.8 79 2.01 14.75 41.56 217.5 99 3.70 14.76 41.56 217.5 99 2.03 14.76 41.99 14.9 105 2.04 14.77 40.39 133.5 120 2.05 19.70 17.49 38.3 158 2.09 9.07 40.39 133.5 173 1.57 9.77 25.08 19.44 208 1.57 9.77 40.39 13.5	90 15.1 11.7	1302	2.35	5.9	1.1	<0.2	1.0	21.2	1.84	0.34	0.14	47	0.44
1.77 15.07 43.36 200.4 77 1.78 19.39 76.65 317.9 70 2.19 16.97 48.60 209.2 76 2.48 15.54 52.09 264.3 63 2.40 18.75 121.31 315.8 76 2.29 13.28 46.80 194.8 79 2.20 13.28 46.80 194.8 79 2.29 13.29 46.80 194.8 79 2.01 14.75 41.56 21.75 99 3.29 9.16 21.75 99 180 3.29 9.07 40.39 133.5 100 2.09 9.07 40.39 133.5 170 2.09 9.76 40.39 133.5 170 2.09 16.31 53.97 234.2 173 1.52 7.78 25.08 119.4 43 0.35 16.14 20.8 114	85 14.7 11.0	1336	2.30	0.9	1.	<0.2	0.1	21.4	1.85	0.34	0.15	46	4.0
17.8 19.39 76.65 317.9 70 2.19 16.97 48.60 209.2 76 2.48 15.54 52.09 284.3 68 2.40 18.75 12.31 315.8 79 2.29 13.28 46.80 194.8 79 5.32 14.07 100.92 434.6 154 2.01 14.75 41.56 217.5 99 3.70 14.79 50.35 257.0 180 2.03 9.7 40.39 13.5 120 2.04 14.79 50.39 194.4 208 2.05 16.77 50.39 194.4 208 1.68 16.31 53.97 234.2 173 1.52 1.778 25.68 1124.8 39 1.52 1.57 2.56 14.4 43 0.35 4.64 16.18 64.5 27 1.08 1.58 43.41 103.0<	71 13.0 10.5	1043	2.15	4.9	1.0	<0.2	6:0	18.0	1.48	0.35	0.11	43	0.37
2.19 16.97 48.60 209.2 76 2.48 15.54 52.09 284.3 63 2.40 18.75 12.131 315.8 76 2.29 13.28 46.80 194.8 76 2.29 13.29 43.46 154 79 2.01 14.75 41.56 217.5 99 3.70 14.79 50.35 257.0 180 3.29 9.18 35.10 149.9 105 2.09 9.18 35.10 149.9 105 2.09 9.18 35.10 149.9 105 2.09 9.18 35.10 149.4 208 1.68 16.37 50.39 194.4 208 1.52 1.63 50.8 173 178 1.53 1.63 50.3 114.4 43 1.52 1.78 25.08 114 43 1.52 1.14 2.194 103.0	70 21.5 19.0	2513	3.28	14.2	8.0	<0.2	1.2	20.7	2.16	0.30	0.14	69	0.53
2.46 15.54 52.09 264.3 63 2.40 18.75 12.13 315.8 76 2.29 13.28 46.80 194.8 79 5.32 14.07 10.92 434.6 154 2.01 14.75 41.56 217.5 180 3.70 14.75 50.36 257.0 180 3.29 9.18 36.10 149.9 105 2.09 9.7 17.49 38.3 1558 2.09 9.7 40.39 133.5 120 1.68 16.31 53.97 234.2 173 1.57 9.75 25.68 124.8 39 1.58 16.31 16.45 27 1.08 15.59 32.73 117.5 59 0.33 12.56 43.41 103.0 58 0.31 14.44 10.37 14 43 0.32 14.6 16.17 10.30 58	76 14.6 11.1	1126	2.37	5.4	- -	<0.2	7	20.2	1.83	0.31	0.13	49	0.42
2.40 18.75 12.131 315.8 76 2.29 13.28 46.80 194.8 79 2.01 14.76 100.92 434.6 154 2.01 14.76 50.36 26.75 180 3.70 14.76 50.36 26.70 180 3.29 19.76 1749 38.3 1558 2.09 9.07 40.39 13.5 120 2.73 12.37 50.39 194.4 208 1.57 9.75 25.68 173 173 1.57 9.75 25.68 124.8 39 1.57 9.75 25.68 114.4 208 1.58 4.64 16.18 64.5 27 1.08 15.59 32.73 117.5 59 0.33 12.56 4.341 103.0 58 0.48 11.44 21.94 103.0 58 3.06 14.72 44.04 197.5	63 18.3 11.2	1116	2.39	8.3	4.	0.3	4.	13.5	1.53	0.34	0.12	48	0.30
2.29 13.28 46.80 194.8 79 5.32 14.07 100.92 434.6 154 5.01 14.75 41.56 21.75 99 3.70 14.79 50.35 25.70 160 3.29 9.07 40.39 133.5 126 2.09 9.07 40.39 133.5 120 2.73 12.37 50.39 194.4 208 1.57 9.75 25.68 124.8 39 1.57 7.78 25.08 11.44 208 1.57 7.78 25.08 11.44 208 1.58 16.59 32.73 17.5 59 0.35 4.46 16.18 64.5 27 1.08 15.59 32.73 17.5 59 0.31 12.86 43.41 103.0 58 0.52 11.14 21.94 10.5 58 0.78 11.28 43.41 103.0 </td <td>76 15.9 13.4</td> <td>2172</td> <td>2.89</td> <td>15.8</td> <td>9.0</td> <td>0.7</td> <td>2.1</td> <td>13.9</td> <td>2.71</td> <td>0.41</td> <td>0.16</td> <td>42</td> <td>0.36</td>	76 15.9 13.4	2172	2.89	15.8	9.0	0.7	2.1	13.9	2.71	0.41	0.16	42	0.36
5.32 14.07 100.92 434.6 154 2.01 14.76 41.56 217.5 99 3.70 14.78 50.35 257.0 180 3.29 9.07 40.39 13.5 105 2.09 9.07 40.39 13.5 120 2.73 12.37 50.39 194.4 208 1.57 9.75 25.68 124.8 39 1.57 9.76 25.68 119.4 43 0.35 1.2 25.08 119.4 43 0.35 1.2 25.08 119.4 43 0.35 1.2 25.08 119.4 43 0.35 1.2 25.08 119.4 43 0.35 1.2 25.08 119.4 43 0.35 1.2 24.1 103.0 58 0.31 1.2 24.1 103.0 58 0.31 1.4 2.1 10.3 40<	79 12.3 10.0	1282	1.90	3.5	4.	<0.2	2.0	22.4	2.37	0.28	0.13	40	0.47
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329 9.18 35.10 149.9 105 052 19.70 17.49 38.3 1558 3 209 9.07 40.39 13.5 120 273 12.37 50.39 194.4 208 1 1.68 16.31 53.97 234.2 173 1 1.57 2.78 25.68 119.4 43 3 1.52 7.78 25.08 119.4 43 3 0.35 4.46 16.18 64.5 27 1.0 5.9 1 0.35 1.68 3.273 11.7.5 5.9 1 6.0 1 <	80 10.5 11.0	2636	1.40	1.8	<u>+-</u>	<0.2	40.1	46.4	5.34	0.34	0.19	32	0.70
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5.95 14.30 264.04 382.8 244	01 6.6 7.4	361	1.37	0.7	2.1	<0.2	<0.1	19.3	3.12	0.26	0.18	30	0.41
	44 12.4 24.8	9989	2.66	3.7	1.7	<0.2	9.0	26.5	5.32	0.27	0.19	52	0.54
Sediment Pulp 0.50 19.81 17.53 45.4 1497 2	97 29.9 10.1	295	1.83	84.4	1.1	4.0	2.6	19.2	0.11	0.55	0.32	31	0.46

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This report supersades all pervious preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and snould be used for reference only.

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Nova Scotia Dept. of Natural Resources 1701 Holls St. Halifax Nova Scotia B3J 2T9 Canada November 29, 2017 P.O. Box 698 None Given Report Date: Client: Project: www.bureauveritas.com/um BUREAU MINERAL LABORATORIES
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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada PHONE (604) 253-3158

CERTIFICATE OF ANALYSIS

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This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.

19.3

Sediment Pulp

49.5



Nova Scotia Dept. of Natural Resources 1701 Hollis St. P.O. Box 698 Client:

Halifax Nova Scotia B3J 2T9 Canada

www.bureauveritas.com/um

MINERAL LABORATORIES

B U R E A U V E R I T A S

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada PHONE (604) 253-3158

None Given November 29, 2017 Project: Report Date:

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	MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	-	0.01	0.1	0.1	0.2	0.1	9.6	0.01	0.02	0.02	2	0.01	0.001
17GB0186 S	Sediment Pulp	3.33	20.44	89.06	430.6	103	14.0	19.4	4536	3.81	8.3	6.0	1.2	1.5	20.3	2.84	0.36	0.22	82	0.57	0.068
17GB0187 S	Sediment Pulp	3.79	16.62	142.17	318.1	160	12.1	17.9	3635	2.87	3.6	1.2	0.5	6:0	18.7	2.80	0.28	0.21	59	0.43	0.062
17GB0193 S	Sediment Pulp	4.41	16.24	65.62	328.5	178	11.9	7.9	3367	1.40	1.5	1.1	0.3	<0.1	37.7	7.35	0.28	0.22	53	0.81	0.111
17GB0195 S	Sediment Pulp	6.54	10.07	37.46	155.9	52	11.0	11.0	2436	2.11	3.0	1.6	0.5	1.9	11.1	1.16	0.22	0.18	45	0.25	0.039
17GB0196 S	Sediment Pulp	69.9	10.54	39.70	156.0	62	11.1	10.4	2529	2.14	3.1	1.7	<0.2	1.8	12.2	1.26	0.23	0.17	42	0.26	0.038
17GB0199 S	Sediment Pulp	13.85	15.78	78.76	226.5	351	8.0	18.4	3617	2.17	2.9	16.2	<0.2	0.2	32.7	5.36	0.25	0.29	뚕	0.56	0.118
17GB0205 S	Sediment Pulp	5.24	18.25	54.03	197.1	148	6.6	9.2	2113	1.76	3.0	10.8	<0.2	6:0	18.4	1.90	0.32	0.21	38	0.35	0.077
17GB0209	Sediment Pulp	17.12	16.63	500.45	487.1	428	12.0	32.9 >	>10000	3.13	9.8	9.9	0.4	0.2	27.7	99.6	0.32	0.34	28	0.50	0.147
17GB0213 S	Sediment Pulp	1.25	8.95	46.79	152.3	30	12.9	9.6	546	2.16	5.7	0.7	8.0	2.0	10.2	1.75	0.27	0.12	4	0.24	0.040
17GB0214 S	Sediment Pulp	1.33	11.44	50.46	156.1	32	13.6	9.2	699	2.22	6.0	0.7	2.3	1.8	10.9	1.97	0.29	0.12	4	0.26	0.037
17GB0221 S	Sediment Pulp	3.29	24.78	179.22	113.8	270	6.5	3.3	123	0.88	4.0	3.0	3.1	0.2	17.7	1.20	0.27	0.36	52	0.25	0.071
17GB0222 S	Sediment Pulp	6.77	24.87	168.16	261.4	201	12.7	25.1	3054	2.55	3.1	3.7	<0.2	1.3	19.1	1.54	0.32	0.32	09	0.38	0.074
17GB0223 S	Sediment Pulp	0.42	13.47	27.32	131.4	82	18.7	15.5	2476	2.74	2.2	9.0	<0.2	0.5	17.8	0.74	0.18	0.17	63	0.41	0.080
17GB0230 S	Sediment Pulp	26.32	44.50	692.16	408.5	554	7.5	38.7 >	~10000	1.02	2.4	5.1	0.3	0.1	5.3	2.35	0.56	0.26	32	0.07	0.192
17GB0234 S	Sediment Pulp	0.45	21.77	31.81	6.96	88	20.3	16.7	2484	2.95	3.3	6.0	<0.2	9.0	37.9	1.06	0.19	0.16	67	1.08	0.106
17GB0235 S	Sediment Pulp	0.43	21.65	32.21	97.0	83	20.4	17.1	2450	3.06	3.4	6.0	<0.2	9.0	36.2	1.00	0.18	0.15	69	1.09	0.103
17GB0235C	Sediment Pulp	0.57	21.05	18.19	47.5	1566	30.4	10.5	322	1.92	89.2	1.2	4.1	5.9	18.4	0.14	0.59	0.35	32	0.47	0.049
17GB0254 S	Sediment Pulp	0.27	19.54	16.93	89.1	51	27.8	19.0	800	3.54	1.6	0.5	<0.2	1.1	25.6	0.26	0.10	60.0	75	99.0	0.078
17GB0255 S	Sediment Pulp	0.29	20.59	18.61	93.8	99	29.2	20.1	802	3.65	1.4	0.5	<0.2	1.1	26.3	0.31	0.11	60.0	74	0.67	0.080
17GB0276 S	Sediment Pulp	0.33	21.30	17.52	91.5	48	28.2	19.2	1031	3.59	2.2	9.0	<0.2	1.4	25.9	0.35	0.11	0.10	77	0.67	0.083
17GB0277 S	Sediment Pulp	0.37	20.51	18.03	95.5	46	28.3	19.0	1050	3.66	2.1	9.0	<0.2	1.7	26.5	0.33	0.12	0.10	80	0.68	0.084
17GB0280 S	Sediment Pulp	0.53	23.87	40.75	193.2	154	18.6	16.8	2542	2.89	2.5	1.0	0.3	0.2	53.0	06.0	0.23	0.14	71	1.47	0.160
17GB0293	Sediment Pulp	0.28	17.53	15.61	93.3	27	27.3	17.7	585	3.47	1.8	0.5	<0.2	1.5	20.1	0.21	0.08	0.08	74	0.53	0.067
17GB0294	Sediment Pulp	0.26	17.64	16.26	90.5	33	27.0	18.5	634	3.41	1.8	0.5	<0.2	1.5	21.4	0.23	60.0	0.08	72	0.54	0.069
17GB0300 S	Sediment Pulp	0.37	20.06	16.51	89.5	196	10.2	9.1	2131	1.09	6.0	9.0	0.4	<0.1	8.09	0.94	0.30	0.10	30	1.52	0.154
17GB0301	Sediment Pulp	0.57	20.67	20.57	83.3	366	12.1	16.2	3240	1.74	2.2	1.1	<0.2	<0.1	35.7	0.84	0.23	0.13	46	0.85	0.191
17GB0314 S	Sediment Pulp	0.35	16.44	19.24	83.2	33	20.2	12.5	676	2.68	3.0	9.0	<0.2	6.	14.6	0.26	0.21	0.17	45	0.37	0.052
17GB0315	Sediment Pulp	0.34	15.99	19.80	88.9	30	20.6	12.5	942	2.73	3.4	6.0	<0.2	2.2	15.0	0.31	0.21	0.17	46	0.38	0.051
	Sediment Pulp	6.32	11.41	45.88	47.7	487	5.5	12.6	3441	1.34	1.0	8.0	6.0	<0.1	3.5	0.62	09.0	0.37	71	0.04	0.191
17GB0329	Sediment Pulp	4.69	26.88	68.66	447.0	337	15.8	18.1	6793	1.46	2.5	1.3	<0.2	<0.1	19.2	4.49	0.40	0.30	36	0.33	0.155

This report supersades all pervious preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and snould be used for reference only.

Nova Scotia Dept. of Natural Resources 1701 Holls St. P.O. Box 698

Client:

Halifax Nova Scotia B3J 2T9 Canada

	MINERAL LABORATORIES Canada
ATTAS RATTAS	BUREAU

www.bureauveritas.com/um

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada PHONE (604) 253-3158

Bureau Veritas Commodities Canada Ltd.

None Given November 29, 2017 Project: Report Date:

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CERTIFICATE OF ANALYSIS

	Method	AQ250	AQ250	AQ250 /	AQ250	AQ250 ,	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250 ,	AQ250 ,	AQ250 /	AQ250 /	AQ250	AQ250 /	AQ250
	Analyte	La	ច	Mg	Ba	F	œ	₹	S.	¥	≥	လွ	F	Ø	£	Se	ë,	Ga
	Unit	mdd	шdd	%	mdd	%	mdd	%	%	%	mdd	mdd	mdd	%	qdd	mdd	mdd	mdd
	MDL	0.5	0.5	0.01	9.0	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	2	0.1	0.02	0.1
17GB0186	Sediment Pulp	6.08	25.7	0.55	6.79	0.224	<20	1.52	0.005	0.04	0.2	4.7	0.56	0.05	22	6.0	<0.02	8.3
17GB0187	Sediment Pulp	28.0	22.6	0.41	81.1	0.158	<20	1.40	900'0	0.04	0.2	3.7	0.36	0.07	92	1.1	<0.02	6.7
17GB0193	Sediment Pulp	61.9	17.6	0.23	224.1	0.032	<20	1.19	0.010	0.05	0.1	1.6	0.36	0.15	137	2.5	<0.02	4.5
17GB0195	Sediment Pulp	21.0	15.7	0.29	55.8	0.097	<20	0.91	0.004	0.04	0.2	1.9	0.19	0.02	78	4.0	<0.02	4.1
17GB0196	Sediment Pulp	21.3	15.2	0.29	71.7	0.092	<20	0.93	0.005	0.04	0.2	2.1	0.18	0.03	33	4.0	<0.02	4.0
17GB0199	Sediment Pulp	90.5	14.4	0.17	105.5	0.031	<20	2.21	0.009	0.04	0.3	£.	0.63	0.18	185	4.2	<0.02	4.8
17GB0205	Sediment Pulp	41.8	21.0	0.27	8.66	0.101	<20	1.42	0.008	0.03	0.3	3.1	0:30	90:0	49	1.9	<0.02	5.3
17GB0209	Sediment Pulp	31.3	28.2	0.19	182.7	0.038	<20	2.12	0.008	0.05	0.2	1.8	1.01	0.20	220	3.1	0.05	8.4
17GB0213	Sediment Pulp	18.0	19.0	0.33	62.0	0.081	<20	0.77	0.002	0.07	0.1	2.7	0.36	<0.02	19	0.3	<0.02	3.8
17GB0214	Sediment Pulp	18.4	18.7	0.35	62.8	0.078	<20	0.83	0.003	0.08	0.1	2.7	0.39	0.02	56	4.0	<0.02	3.8
17GB0221	Sediment Pulp	55.4	11.7	0.16	58.8	0.073	<20	1.16	0.007	0.03	0.2	1.7	0.12	0.32	152	5.6	<0.02	4.8
17GB0222	Sediment Pulp	43.8	21.8	0.44	54.7	0.148	<20	1.77	0.008	0.04	0.2	3.7	0.34	0.12	119	5.6	<0.02	6.4
17GB0223	Sediment Pulp	14.1	21.2	0.41	85.6	0.116	<20	2.12	0.008	0.05	¢0.1	3.0	0.18	90:0	114	6.0	<0.02	6.4
17GB0230	Sediment Pulp	150.3	34.0	90.0	37.7	0.021	<20	4.58	0.002	0.04	0.1	1.8	0.63	0.18	300	5.4	0.02	5.7
17GB0234	Sediment Pulp	16.1	23.0	0.57	98.4	0.150	<20	2.33	0.019	0.07	6.0	4.	0.20	0.10	100	<u>+</u>	<0.02	6.5
17GB0235	Sediment Pulp	15.2	22.8	0.59	98.3	0.155	<20	2.33	0.021	0.07	0.1	4.2	0.20	60:0	9	1.0	<0.02	9.9
17GB0235C	Sediment Pulp	16.5	58.9	0.57	42.5	0.063	<20	1.06	0.021	0.08	0.1	3.5	0.07	<0.02	115	0.2	<0.02	3.9
17GB0254	Sediment Pulp	11.4	30.1	1.00	50.7	0.251	<20	1.93	0.023	0.04	¢0.1	3.8	90.0	0.05	20	4.0	<0.02	6.5
17GB0255	Sediment Pulp	11.6	31.8	1.03	63.9	0.244	<20	2.04	0.025	0.05	40.1	3.9	0.07	90:0	22	0.5	<0.02	7.0
17GB0276	Sediment Pulp	14.1	28.3	0.97	63.9	0.256	<20	1.91	0.032	0.05	<0.1	4.2	0.08	0.04	46	0.5	<0.02	6.1
17GB0277	Sediment Pulp	15.6	29.6	0.97	6.99	0.251	<20	1.91	0.032	0.05	40.1	1.4	0.08	0.04	40	4.0	<0.02	6.3
17GB0280	Sediment Pulp	16.9	27.0	0.53	91.7	0.124	<20	2.50	0.016	0.06	40.1	4.6	0.15	0.14	138	2.5	<0.02	9.9
17GB0293	Sediment Pulp	11.1	27.2	1.01	53.5	0.260	<20	1.85	0.030	0.05	4 0.1	3.8	90.0	<0.02	33	0.2	<0.02	6.2
17GB0294	Sediment Pulp	11.4	27.5	0.99	56.7	0.264	<20	1.86	0.030	0.05	<0.1	4.0	0.07	0.02	27	0.3	<0.02	6.3
17GB0300	Sediment Pulp	18.0	16.3	0.28	6.99	0.028	<20	1.76	0.014	0.05	40.1	1.2	0.12	0.18	200	3.9	<0.02	3.0
17GB0301	Sediment Pulp	19.4	26.9	0.32	65.1	0.029	<20	2.74	0.008	0.05	<0.1	1.6	0.18	0.21	175	3.8	<0.02	5.2
17GB0314	Sediment Pulp	15.7	21.0	0.55	71.6	0.091	<20	1.35	0.009	0.09	<0.1	3.0	0.09	0.03	34	0.3	<0.02	5.0
17GB0315	Sediment Pulp	16.2	21.3	0.56	72.5	0.100	<20	1.34	0.011	0.09	40.1	2.9	0.10	0.03	59	0.2	<0.02	5.2
17GB0328	Sediment Pulp	205.6	10.4	0.10	31.4	0.017	<20	1.88	0.004	0.08	0.1	0.5	0.59	0.22	410	5.0	<0.02	5.1
17GB0329	Sediment Pulp	183.6	26.9	0.18	158.2	0.026	<20 <	3.27	0.007	0.06	0.1	1.4	0.78	0.19	241	8.0	0.02	6.0



Nova Scotia Dept. of Natural Resources 1701 Hollis St. P.O. Box 698 Client:

Halifax Nova Scotia B3J 2T9 Canada

www.bureauveritas.com/um

BUREAU MINERAL LABORATORIES
VERITAS Canada Bureau Veritas Commodities Canada Ltd. 9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada PHONE (604) 253-3158

None Given November 29, 2017

Project: Report Date:

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	Unit	mdd	mdd	шdd	шфф	qdd	mdd	mdd	mdd	%	mdd	mdd	qdd	mdd	mdd	mdd	mdd	mdd	mdd	%	%
	MDL	0.01	0.01	0.01	0.1	7		0.1	-	0.01	0.1	0.1	0.2	0.1	9.5	0.01	0.02	0.02	2	0.01	0.001
17GB0342	Sediment Pulp	13.29	18.12	63.83	299.7	152		22.4	3767	3.24	4.9	1.1	<0.2	2.0	19.0	2.04	0.37	0.23	42	0.29	0.078
17GB0345	Sediment Pulp	0.31	12.52	17.33	87.1	10	18.6	11.4	257	2.63	2.9	0.5	<0.2	2.4	12.9	0.25	0.17	0.11	52	0.29	0.035
17GB0346	Sediment Pulp	0.30	12.08	16.79	85.7	11	18.2	11.0	534	2.60	2.8	0.5	<0.2	2.4	12.8	0.27	0.17	0.11	52	0.30	0.038
17GB0363	Sediment Pulp	0.24	10.49	18.22	58.8	37	13.8	8.2	260	1.84	2.9	9.0	<0.2	1.6	10.1	0.18	0.17	0.11	31	0.22	0.034
17GB0364	Sediment Pulp	0.23	10.96	18.68	59.2	39	14.0	8.4	599	1.86	3.0	0.5	<0.2	£.	11.1	0.22	0.16	0.11	30	0.24	0.037
17GB0381	Sediment Pulp	08.0	17.73	70.85	169.9	204	25.3	18.7	3995	1.98	5.0	1.2	0.5	0.1	23.0	1.57	0.24	0.17	43	0.50	0.135
17GB0382	Sediment Pulp	0.98	19.02	72.39	193.7	166	21.4	23.6	3891	2.46	11.3	1.0	2.0	0.2	22.8	1.75	0.29	0.30	45	0.37	0.121
17GB0384	Sediment Pulp	0.49	13.29	30.74	103.6	101	14.4	12.3	1052	1.97	3.6	6.0	<0.2	0.3	21.2	0.70	0.25	0.23	35	0.39	0.065
17GB0385	Sediment Pulp	0.51	12.84	33.82	100.3	97	13.9	13.3	266	2.14	3.5	6.0	9.0	4.0	18.1	99.0	0.26	0.22	35	0.29	0.063
17GB0403	Sediment Pulp	0.26	12.44	15.49	44.9	28	12.5	7.5	974	1.93	2.5	9.0	0.4	1.6	10.0	0.31	0.17	0.14	27	0.16	0.032
17GB0404	Sediment Pulp	0.27	12.93	16.55	45.8	22	13.1	7.7	965	1.88	2.5	7.0	<0.2	1.7	10.0	0.31	0.18	0.16	27	0.16	0.033
17GB0422	Sediment Pulp	0.35	13.11	17.80	82.5	18	16.0	10.4	694	2.20	2.4	0.5	<0.2	2.3	11.9	0.37	0.14	60.0	38	0.26	0.033
17GB0423	Sediment Pulp	0.38	13.55	17.91	81.0	17	16.0	10.5	740	2.25	2.6	0.5	0.3	2.3	12.1	0.37	0.14	0.13	40	0.24	0.033
17GB0434	Sediment Pulp	0.92	12.38	40.36	303.1	132	17.5	18.2	3314	2.74	3.8	6.0	<0.2	0.3	32.3	3.61	0.19	0.21	52	0.56	0.089
17GB0434C	Sediment Pulp	0.64	22.36	18.69	52.3	1666	31.4	10.9	336	2.13	95.2	1.3	2.2	3.0	21.8	0.11	0.54	0.36	35	0.54	0.049
17GB0436	Sediment Pulp	1.33	9.21	22.99	92.2	19	11.1	6.7	336	1.71	2.1	9.0	<0.2	2.0	11.8	0.87	0.20	0.12	37	0.28	0.034
17GB0439	Sediment Pulp	7.86	29.77	69.63	214.9	369	14.2	17.7	5214	2.10	4.0	2.4	4.0	<0.1	44.7	4.17	0.44	0.26	47	0.73	0.186
17GB0441	Sediment Pulp	17.74	26.69	91.42	403.7	277	11.4	11.2 >1	>10000	1.47	6.0	1.5	<0.2	¢0.1	34.6	31.96	0.75	0.29	33	0.53	0.157
17GB0442	Sediment Pulp	8.15	10.76	46.62	182.6	72	10.4	16.0	2792	1.83	3.5	6.0	<0.2	0.7	25.1	5.08	0.22	0.15	38	0.47	0.051
17GB0443	Sediment Pulp	9.45	12.01	51.62	192.8	82	10.7	18.2	2995	1.93	3.7	1.0	<0.2	0.7	24.9	5.44	0.27	0.17	38	0.46	0.054
17GB0446	Sediment Pulp	4.45	24.50	57.11	118.1	150	4.7	3.3	2604	0.37	4.8	6.4	<0.2	0.1	20.0	8.38	99.0	0.11	80	0.89	0.161
17GB0447	Sediment Pulp	3.47	34.45	41.12	150.5	183	9.7	6.2	5337	1.21	5.0	2.8	<0.2	<0.1	44.5	9.60	0.83	0.17	24	1.33	0.151
17GB0448	Sediment Pulp	4.17	14.66	29.01	227.3	26	10.2	8.4	2064	1.53	8.0	9.0	<0.2	0.2	22.4	18.14	0.28	0.12	31	0.36	0.067
17GB0450	Sediment Pulp	4.62	16.27	27.38	213.5	73	14.3	8.1	2011	1.64	3.1	1.3	<0.2	0.2	46.8	9.00	0.31	0.18	25	0.85	0.088
17GB0454	Sediment Pulp	0.37	15.37	21.65	111.7	75	20.9	13.1	1052	3.35	2.1	9.0	<0.2	0.5	18.5	0.35	0.12	0.13	73	0.56	0.080
17GB0455	Sediment Pulp	5.57	9.61	55.95	264.9	166	14.0	25.1	5454	3.21	7.3	1.1	<0.2	0.2	33.7	3.49	0.27	0.18	65	09'0	0.098
17GB0458	Sediment Pulp	1.45	14.44	21.12	105.0	24	19.3	12.9	2148	2.81	8.7	9.0	0.2	1.0	23.3	0.39	0.33	0.17	34	0.30	0.053
17GB0462	Sediment Pulp	4.73	18.36	135.96	439.0	324	15.0	17.8 >1	>10000	5.09	11.4	2.5	0.4	0.1	33.8	4.69	0.24	0.29	58	0.51	0.127
17GB0463	Sediment Pulp	6.95	18.07	192.06	444.4	334	14.2	23.5	8088	2.36	18.0	2.8	1.0	<0.1	47.2	6.25	0.25	0.24	32	0.70	0.122
17GB0464	Sediment Pulp	2.96	17.81	143.82	392.1	223	19.8	15.5	1884	2.44	4.6	1.9	<0.2	0.3	30.7	2.37	0.15	0.19	31	0.33	0.071

This report superiscels all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature includates final approval; preliminary reports are unsigned and should be used for reference only.

	MINERAL LABORATORIES	Canada
ALTAS WALLANDER WALL	BUREAU	VERITAS

Nova Scotia Dept. of Natural Resources 1701 Hollis St. P.O. Box 698 Halifax Nova Scotia B3J 2T9 Canada None Given November 29, 2017 Project: Report Date: Client: www.bureauveritas.com/um

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada PHONE (604) 253-3158

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VAN17002654.1

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CERTIFICATE OF ANALYSIS

Met	Method AQ250	0 AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250 /	AQ250	AQ250	AQ250	AQ250	AQ250 /	AQ250
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1	MDL 0.5	5 0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	9	0.1	0.02	0.1
17GB0342 Sediment Pulp	ulp 60.4	4 18.6	0.33	114.0	0.064	<20	1.96	0.012	90.0	0.5	2.7	0.42	0.13	158	2.1	0.02	9.9
17GB0345 Sediment Pulp	ulp 13.	1 20.8	0.54	44.5	0.148	<20	1.02	0.009	0.06	4 0.1	2.7	90.0	<0.02	12	0.2	<0.02	4.3
17GB0346 Sediment Pulp	12.4 ulp	4 19.7	0.54	43.4	0.150	<20	1.02	0.008	0.06	40.1	2.5	90.0	<0.02	16	0.2	<0.02	4.0
7GB0363 Sediment Pulp	12.0 ulp	0 13.6	0.35	57.5	0.070	² 20	0.82	900.0	0.05	40.1	2.2	90.0	<0.02	24	0.3	<0.02	3.0
7GB0364 Sediment Pulp	11.5 ulp	5 14.2	0.35	61.5	0.068	<20	0.86	0.007	0.05	40.1	2.2	0.07	<0.02	20	0.3	<0.02	3.1
17GB0381 Sediment Pulp	ulp 18.6	6 25.0	0.27	114.4	0.018	×20	2.71	900.0	0.07	40.1	1.7	0.28	0.12	146	2.6	<0.02	4.2
7GB0382 Sediment Pulp	ulp 19.	1 26.4	0.41	516.0	0.036	×20	2.25	0.009	0.09	40.1	2.4	0.27	0.13	148	2.9	<0.02	5.8
7GB0384 Sediment Pulp	ulp 14.2	2 17.7	0.33	247.3	0.039	<20 <20	14.1	0.009	0.08	40.1	2.0	0.12	0.07	78	1.0	<0.02	4.3
7GB0385 Sediment Pulp	ulp 15.3	3 18.2	0.35	209.0	0.037	<20	1.42	0.007	0.07	<0.1	2.0	0.12	90:0	88	1.0	<0.02	4.7
17GB0403 Sediment Pulp	ulp 13.9	9 14.6	0.31	60.1	0.039	<20	0.88	0.009	0.06	<0.1	2.1	90.0	<0.02	23	0.2	<0.02	2.7
17GB0404 Sediment Pulp	ulp 13.3	3 14.3	0.30	63.4	0.042	² 20	0.89	0.008	0.06	4 0.1	2.3	0.08	<0.02	27	0.2	<0.02	2.8
7GB0422 Sediment Pulp	11.2 ulp	2 17.2	0.48	71.5	0.132	<20	96.0	600.0	0.05	<0.1	2.4	0.07	<0.02	9	0.1	<0.02	3.9
7GB0423 Sediment Pulp	11.5 ulp	5 16.9	0.48	83.9	0.124	<20	0.95	0.008	0.06	<0.1	2.5	0.07	<0.02	19	¢0.1	<0.02	3.7
17GB0434 Sediment Pulp	ulp 22.1	1 21.5	0.43	153.7	0.103	<20	1.87	0.010	0.06	<0.1	2.9	0.67	0.11	118	1.8	<0.02	9.9
7GB0434C Sediment Pulp	ulp 16.5	5 63.8	0.64	44.0	0.071	<20	1.19	0.023	0.09	0.1	4.0	90.0	<0.02	124	0.2	<0.02	4.1
17GB0436 Sediment Pulp	ulp 16.0	0 14.9	0.30	32.5	0.108	<20	0.70	0.005	0.04	0.2	2.1	0.19	<0.02	25	0.2	<0.02	3.7
17GB0439 Sediment Pulp	ulp 27.6	6 27.3	0.23	141.8	0.030	<20	2.65	0.012	0.06	0.1	1.6	0.61	0.24	288	5.0	0.03	4.7
7GB0441 Sediment Pulp	ulp 135.2	2 18.9	0.19	189.1	0.025	<20	1.77	0.010	0.08	0.3	1.5	6.72	0.20	215	8.9	0.03	6.6
17GB0442 Sediment Pulp	17.1	13.4	0.29	0.99	0.103	<20	0.84	0.007	0.04	0.1	2.4	0.84	90:0	99	6.0	<0.02	4.8
17GB0443 Sediment Pulp	ulp 18.1	1 14.5	0.30	70.2	0.111	<20	0.86	0.005	0.0	0.2	2.5	0.95	90:0	65	1.	<0.02	5.1
17GB0446 Sediment Pulp	ulp 165.9	9 22.4	0.14	116.5	0.007	<20	2.49	0.016	0.05	0.1	1.5	2.62	0.17	156	7.9	<0.02	1.6
17GB0447 Sediment Pulp	106 gin	1 19.4	0.24	114.9	0.028	<20	1.14	0.013	0.06	0.3	1.8	5.26	0.18	188	6.7	<0.02	3.6
7GB0448 Sediment Pulp	157.4 Julp	4 13.2	0.24	111.0	0.056	<20	0.90	0.009	0.04	0.2	1.8	1.04	60:0	29	3.1	<0.02	3.5
17GB0450 Sediment Pulp	ulp 65.9	9 17.0	0.32	223.2	0.022	<20	1.00	0.011	0.11	0.2	1.7	0.58	0.12	119	1.9	<0.02	3.3
17GB0454 Sediment Pulp	ulp 13.7	7 26.6	0.62	52.1	0.183	^{<20}	2.27	0.008	0.06	1.0>	3.5	0.12	90.0	06	6.0	<0.02	7.5
7GB0455 Sediment Pulp	ulp 55.2	2 17.9	0.33	141.9	0.081	<20	1.84	0.008	0.04	<0.1	3.5	0.67	0.15	162	2.7	<0.02	5.8
17GB0458 Sediment Pulp	ulp 15.0	0 17.8	0.54	78.8	0.018	<20	1.21	900.0	0.07	<0.1	3.3	0.14	0.04	22	4.0	<0.02	4.4
17GB0462 Sediment Pulp	ulp 43.3	3 18.6	0.24	463.2	0.011	<20	1.91	0.010	0.07	9.4	1.4	0.37	0.18	202	2.7	0.02	5.5
7GB0463 Sediment Pulp	ulp 50.2	2 19.0	0.23	483.7	0.015	<20	1.86	0.011	0.07	0.5	1.7	0.41	0.20	199	3.5	<0.02	5.6
17GB0464 Sediment Pulp	33.3	3 22.9	0.42	217.1	0.020	<20	1.91	0.008	0.07	0.2	2.5	0.21	90:0	9	1.6	<0.02	6.1

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



Nova Scotia Dept. of Natural Resources 1701 Holls St. P.O. Box 696 Client:

Halifax Nova Scotia B3J 2T9 Canada

None Given

www.bureauveritas.com/um

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada PHONE (604) 253-3158

Bureau Veritas Commodities Canada Ltd.

November 29, 2017 Project: Report Date:

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ERTIFICATE OF AN	Method AQ250	Analyte	Unit	MDL 0.01 0.01 0.01 0.1 2 0.1 0.1 1 0.01 0.1 0.2 0.1 0.5 0.01 0.02 0.02 2 0.01

	Method	AQ250	AQ250	AQ250	AQ250 /	AQ250 A	AQ250 A	AQ250 /	AQ250 /	AQ250 /	AQ250 #	AQ250 /	AQ250 ,	AQ250	AQ250						
	Analyte	Мо	ថី	ď	Z	Ag	ž	ပိ	Ā	Fe	As	>	Ā	Ę	ര്	8	Sb	ā	>	ន	Δ
	Unit	mdd	mdd	шdd	шdd	qdd	mdd	mdd	mdd	%	mdd	шdd	qdd	mdd	mdd	шdd	mdd	mdd	mdd	%	%
	MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	9.5	0.01	0.02	0.02	2	0.01	0.001
17GB0465 Si	Sediment Pulp	3.07	17.33	166.49	275.9	320	11.5	8.1	299	1.35	3.4	2.6	<0.2	<0.1	30.0	3.89	0.27	0.21	56	0.52	0.110
17GB0466 Si	Sediment Pulp	14.18	21.36	111.57	163.8	274	17.8	14.1	1892	2.79	11.5	6.7	4.0	0.3	24.1	1.23	0.39	0.36	45	0.38	0.120
17GB0467 S	Sediment Pulp	13.78	21.88	112.98	175.9	261	18.6	15.4	1809	2.93	12.2	6.2	0.3	0.3	21.5	1.15	0.37	0.33	46	0.36	0.116
17GB0468 Si	Sediment Pulp	2.25	15.09	112.83	263.0	227	13.2	10.3	1825	1.92	7.5	4.	<0.2	0.2	29.3	3.21	0.34	0.20	32	0.46	0.083
17GB0469 Sa	Sediment Pulp	3.57	41.45	268.86	484.5	249	21.8	35.3	4717	2.37	5.9	2.0	0.3	0.5	36.7	4.88	0.24	0.28	33	0.31	0.075
17GB0469C Si	Sediment Pulp	0.55	21.75	18.97	51.7	1619	32.1	10.9	345	2.02	93.5	1.3	1.4	3.1	22.2	0.13	0.55	0.35	35	0.51	0.045
17GB0470 S	Sediment Pulp	6.70	23.92	246.10	369.2	469	15.5	33.4	6121	1.98	22.0	2.9	<0.2	1.0 >	34.1	5.46	0.43	0.39	39	0.52	0.169
17GB0472 S	Sediment Pulp	06.0	16.44	114.80	55.5	463	6.9	17.3	9122	1.62	6.2	0.7	9.0	6 0.1	12.3	0.88	0.76	0.43	9	0.14	0.127
17GB0473 S	Sediment Pulp	7.66	15.43	77.61	146.8	209	11.9	7.9	1224	1.64	4.6	6.4	0.3	1.0>	27.1	1.38	0.33	0.28	27	0.51	0.157
17GB0474 Si	Sediment Pulp	1.92	17.15	45.69	97.5	123	15.7	21.8	2503	3.25	4.5	1.7	<0.2	8.0	16.5	0.67	0.25	0.26	52	0.31	0.074
17GB0481 Si	Sediment Pulp	2.28	13.76	31.94	126.8	74	20.1	18.1	5442	2.90	8.2	8.0	<0.2	1.0	17.7	1.14	0.29	0.27	46	0.20	0.047
17GB0482 Si	Sediment Pulp	1.60	14.86	30.10	132.2	70	21.9	17.9	3017	3.17	11.7	8.0	0.2	1.1	19.5	0.69	0.19	0.21	33	0.21	0.049
17GB0483 Si	Sediment Pulp	1.92	17.35	33.76	157.4	84	25.7	22.1	3661	3.71	14.2	6.0	1.3	1.2	23.8	0.83	0.23	0.29	37	0.24	0.060
17GB0484 Si	Sediment Pulp	2.55	13.40	88.07	130.9	218	14.9	20.3	2089	1.29	1.5	1.3	0.2	0.1	18.0	1.81	0.20	0.27	17	0.24	0.133
17GB0486 Si	Sediment Pulp	9.12	33.21	128.58	512.5	378	17.8	16.3	4917	1.70	16.0	2.2	9.0	0.1	8.79	8.23	0.48	0.39	23	1.20	0.148
17GB0503 Si	Sediment Pulp	4.48	17.11	121.28	215.0	29	13.5	18.6	919	2.13	6.9	2.6	0.4	2.5	16.9	3.35	0.20	0.26	36	0.33	0.043
17GB0504 Si	Sediment Pulp	5.39	21.61	154.11	244.7	88	14.5	22.7	1195	2.17	7.7	3.2	<0.2	1.7	20.2	4.64	0.23	0.27	37	0.35	0.054
17GB0505 Si	Sediment Pulp	7.41	27.13	84.18	216.1	161	16.8	50.3	1940	2.30	7.5	7.2	0.3	2.7	27.1	4.90	0.33	0.30	41	0.48	0.069
17GB0511 Si	Sediment Pulp	3.36	13.36	32.66	132.4	42	15.9	11.1	1206	3.14	7.5	1.4	<0.2	1.2	18.7	1.18	0.30	0.23	22	0.26	0.060
17GB0511C Si	Sediment Pulp	0.54	19.75	17.79	47.3	1523	29.5	9.7	304	1.92	88.3	1.2	4.1	3.2	18.6	0.13	0.56	0.35	32	0.47	0.047
17GB0519 Si	Sediment Pulp	0.50	14.54	31.49	110.0	152	17.5	9.2	1867	5.66	8.9	1.0	0.2	0.4	12.3	0.54	0.18	0.23	47	0.22	0.086
17GB0523 Si	Sediment Pulp	0.12	7.17	16.30	62.4	20	11.7	6.2	369	1.60	2.1	0.7	<0.2	5.6	8.0	0.22	0.12	60.0	56	0.16	0.026
17GB0524 Si	Sediment Pulp	0.14	6.92	16.76	63.1	19	11.6	6.3	372	1.62	2.1	0.7	<0.2	2.4	7.3	0.22	0.14	0.10	26	0.16	0.027
17GB0535 S ₄	Sediment Pulp	9.89	18.54	59.16	103.0	254	11.1	18.0	5003	1.71	3.1	1.7	<0.2	<0.1	10.3	0.92	0.45	0.25	28	0.14	0.128
17GB0536 Si	Sediment Pulp	0.91	14.88	48.41	57.3	330	8.0	20.6	6918	2.24	2.8	1.2	0.5	<0.1	9.5	0.99	0.48	0.31	40	0.14	0.163
17GB0537 Si	Sediment Pulp	9.23	16.70	81.74	121.1	324	10.6	25.8 >	10000	1.84	3.8	1.9	0.4	<0.1	9.6	1.83	0.49	0.32	30	0.12	0.128
17GB0538 Si	Sediment Pulp	6.91	37.56	83.69	163.7	900	5.7	29.2 >	10000	1.18	5.5	5.5	1.3	0.3	5.6	1.45	0.55	0.17	15	0.03	0.221
17GB0541 Si	Sediment Pulp	14.03	16.54	80.19	261.3	259	10.6	11.0	1495	1.81	3.5	1.0	<0.2	<0.1	19.4	3.00	0.39	0.27	43	0.34	0.147
17GB0542 Si	Sediment Pulp	3.99	17.67	35.78	196.8	166	10.3	16.4	3922	06.0	2.0	1.6	<0.2	<0.1	40.7	3.17	0.35	0.15	18	0.88	0.103
17GB0543 Si	Sediment Pulp	3.09	14.40	90.89	67.8	130	13.0	6.4	356	2.80	4.4	1.0	0.5	0.5	6.2	0.19	0.55	0.41	20	0.10	0.103

This report supersisdes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature includates final approval; preliminary reports are unsigned and should be used for reference only.

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Sediment Pulp

17GB0543



BUREAU MINERAL LABORATORIES
VERITAS Canada Bureau Veritas Commodities Canada Ltd.

Nova Scotia Dept. of Natural Resources 1701 Holls St. P.O. Box 698 Halifax Nova Scotia B3J 2T9 Canada November 29, 2017 None Given Project: Report Date: Client: www.bureauveritas.com/um

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada PHONE (604) 253-3158 **CERTIFICATE OF ANALYSIS**

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Method AQ250 AQ250 AQ250 AQ250 AQ250 AQ250 A	AQ250 AQ250 AQ250 AQ250	AQ250 AQ250 AQ250	AQ250 AQ250	AQ250		AQ250	AQ250	AQ250 A	AQ250 A	AQ250 #	AQ250 #	AQ250 /	AQ250	AQ250	AQ250 A	AQ250
Analyte La Cr Mg Ba Ti B	Mg Ba			8	₩	₹	N a	¥	≥	လွ	F	Ø	£	Se	<u>e</u>	g g
Unit ppm ppm % ppm	% udd %	% wdd	%		mdd	*	%	%	mdd	mdd	mdd	%	qdd	mdd	mdd	mdd
MDL 0.5 0.5 0.01 0.5 0.001 20	0.01 0.5 0.001	0.5 0.001	0.001		20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	9	0.1	0.02	0.1
Sediment Pulp 46.8 19.9 0.25 178.2 0.021 <20	0.25 178.2 0.021	178.2 0.021	0.021		<20	1.71	0.014	0.06	0.3	1.4	0.20	0.22	171	3.6	<0.02	5.5
70.9 28.9 0.40 148.2 0.031 <20	0.40 148.2 0.031	148.2 0.031	0.031		<20	2.72	600.0	0.10	9.0	3.6	0.42	0.18	113	3.7	<0.02	10.8
Sediment Pulp 65.3 30.1 0.41 147.4 0.034 <20	0.41 147.4 0.034	147.4 0.034	0.034		<20	2.84	900'0	0.10	0.5	4.0	0.46	0.15	122	3.4	<0.02	11.9
Sediment Pulp 37.1 19.2 0.29 194.1 0.039 <20	0.29 194.1 0.039	194.1 0.039	0.039		<20	1.59	0.008	0.07	0.2	2.1	0.19	0.12	128	5.6	<0.02	5.5
Sediment Pulp 39.9 24.0 0.41 233.0 0.021 <20	0.41 233.0 0.021	233.0 0.021	0.021		<20	2.29	0.007	0.07	<0.1	5.9	0.40	60.0	119	2.8	0.03	5.3
16.3 63.5 0.62 41.9 0.068 <20	0.62 41.9 0.068	41.9 0.068	0.068		<20	1.18	0.023	0.10	0.1	3.9	0.08	<0.02	116	0.2	<0.02	4.3
Sediment Pulp 40.1 27.9 0.22 240.0 0.016 <20	0.22 240.0 0.016	240.0 0.016	0.016		<20	2.34	0.015	0.07	0.4	1.3	0.56	0.19	291	6.9	0.05	5.3
Sediment Pulp 21.6 13.0 0.11 96.7 0.030 <20	0.11 96.7 0.030	96.7 0.030	0:030		<20	1.46	0.005	0.07	<0.1	1.2	0.59	0.19	319	3.7	0.02	5.8
Sediment Pulp 68.7 23.0 0.22 162.6 0.013 <20	0.22 162.6 0.013	162.6 0.013	0.013		<20	2.46	0.008	0.07	0.4	1.1	0.30	0.27	160	4.9	<0.02	11.5
Sediment Pulp 31.7 23.0 0.36 85.6 0.101 <20	0.36 85.6 0.101	85.6 0.101	0.101		<20	2.26	0.007	0.07	<0.1	2.9	0.25	0.08	135	1.5	<0.02	8.6
Sediment Pulp 14.2 23.7 0.55 97.4 0.041 <20	0.55 97.4 0.041	97.4 0.041	0.041		^{<50}	1.64	0.005	0.09	<0.1	5.9	0.29	0.05	26	8.0	0.03	6.9
Sediment Pulp 17.0 20.7 0.49 110.9 0.014 <20	0.49 110.9 0.014	110.9 0.014	0.014		<20	1.63	0.005	0.10	<0.1	3.2	0.36	0.05	78	0.7	<0.02	5.4
Sediment Pulp 18.9 23.5 0.50 134.0 0.014 <20	0.50 134.0 0.014	134.0 0.014	0.014		<20	1.83	0.008	0.10	<0.1	3.6	0.39	0.05	81	6.0	0.03	5.9
Sediment Pulp 53.8 16.1 0.18 109.8 0.006 <20	0.18 109.8 0.006	109.8 0.006	900'0		<20	2.36	0.010	0.06	<0.1	1.0	1.20	0.23	201	0.9	<0.02	3.1
Sediment Pulp 76.2 16.6 0.20 314.8 0.011 <20	0.20 314.8 0.011	314.8 0.011	0.011		<20	1.81	0.007	0.06	0.1	1.3	0.67	0.17	203	4.7	0.05	3.8
Sediment Pulp 36.9 14.9 0.35 50.9 0.112 <20	0.35 50.9 0.112	50.9 0.112	0.112		<20	1.05	900.0	0.04	0.1	3.1	0.86	0.04	42	9.0	0.09	5.1
Sediment Pulp 47.1 17.3 0.35 65.0 0.103 <20	0.35 65.0 0.103	65.0 0.103	0.103		<20	1.15	0.007	0.05	0.1	3.4	1.09	0.07	99	1.2	0.09	5.8
Sediment Pulp 58.1 15.9 0.42 55.0 0.146 <20	0.42 55.0 0.146	55.0 0.146	0.146		<20	1.63	0.007	0.04	0.3	4.7	2.36	90.0	62	2.4	0.08	6.4
34.6 26.6 0.37 92.3 0.070 <20	0.37 92.3 0.070	92.3 0.070	0.070		<20	1.18	0.007	0.09	0.4	5.9	0.76	0.04	9	9.0	0.03	5.5
Sediment Pulp 15.7 57.8 0.57 38.8 0.061 <20	0.57 38.8 0.061	38.8 0.061	0.061		<20	1.05	0.021	0.08	0.1	3.6	0.08	<0.02	110	0.1	<0.02	3.8
18.3 26.3 0.31 124.3 0.027 <20	0.31 124.3 0.027	124.3 0.027	0.027		<20	1.77	0.005	0.07	<0.1	2.2	0.22	90.0	88	8.0	<0.02	5.4
Sediment Pulp 16.1 13.4 0.33 68.2 0.059 <20	0.33 68.2 0.059	68.2 0.059	0.059		<20	0.72	0.005	0.04	<0.1	1.8	0.07	<0.02	12	<0.1	<0.02	2.6
15.0 14.0 0.32 69.6 0.060 <20	0.32 69.6 0.060	090.0 9.69	090.0		<20	0.72	0.004	0.04	^ 0.1	1.9	0.07	<0.02	10	<0.1	<0.02	5.6
Sediment Pulp 137.9 20.2 0.20 60.4 0.018 <20	0.20 60.4 0.018	60.4 0.018	0.018		<20	2.81	0.007	0.06	<0.1	4.	0.61	0.18	208	7.5	<0.02	5.5
Sediment Pulp 17.9 20.2 0.16 48.6 0.032 <20	0.16 48.6 0.032	48.6 0.032	0.032		<20	2.46	0.010	0.06	<0.1	1.3	0.52	0.20	361	5.0	0.04	7.9
Sediment Pulp 185.8 19.8 0.18 83.3 0.024 <20	0.18 83.3 0.024	83.3 0.024	0.024		<20	2.80	0.008	0.06	<0.1	1.4	1.05	0.16	275	8.2	0.03	7.0
Sediment Pulp 409.1 27.6 0.07 32.0 0.009 <20	0.07 32.0 0.009	32.0 0.009	0.009		<20	5.09	0.003	0.04	0.1	3.8	1.75	0.23	340	12.7	0.03	9.9
Sediment Pulp 35.1 18.0 0.17 139.5 0.028 <20	0.17 139.5 0.028	139.5 0.028	0.028		<20	2.26	0.008	0.05	0.1	1.2	0.41	0.33	242	3.4	<0.02	7.7
Sediment Pulp 53.7 16.6 0.15 149.0 0.014 <20	0.15 149.0 0.014	149.0 0.014	0.014		^{<20}	1.72	0.016	0.05	0.1	8.0	0.40	0.17	195	5.3	<0.02	2.8



Nova Scotia Dept. of Natural Resources 1701 Hollis St. P.O. Box 698 Client:

Halifax Nova Scotia B3J 2T9 Canada

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None Given November 29, 2017 Project: Report Date:

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	Method	AQ250	AQ250	AQ250	AQ250 /	AQ250 A	AQ250 AC	AQ250 A(AQ250 AC	AQ250 AQ	AQ250 AC	AQ250 AC	AQ250 A	AQ250 A	AQ250 A	AQ250 /	AQ250 /	AQ250 A	AQ250 AC	AQ250 A	AQ250
	Analyte	Mo	ភ	g.	Zu	Ag	Z	ပိ	Ā		As	_	Αn	£	ភ	ខ	Sb	ā	>	အ ရ	Δ
	Unit	mdd	mdd	шdd	шdd	qdd	mdd	mdd	mdd	%	mdd	mdo	qdd	mdd	mdd	mdd	mdd	mdd	mdd	%	%
	MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1			0.1	0.2	0.1	9.6	0.01	0.02	0.02	2	0.01	0.001
17GB0544	Sediment Pulp	3.77	14.44	94.03	68.0	160	12.8	7.1	552	2.80	4.5	1.2	<0.2	0.5	6.0	0.21	0.64	0.45	20	0.10	0.100
17GB0546	Sediment Pulp	25.08	19.80	59.65	132.6	238	8.3	18.4	4248	2.40	24.4	6.6	<0.2	<0.1	35.1	2.61	0.41	0.23	22	1.02	0.127
17GB0556	Sediment Pulp	1.78	20.13	61.11	77.5	417	6.6	11.1	8418	1.75	3.0	1.2	<0.2	0.2	8.0	0.95	0.49	0.37	23	0.12	0.110
17GB0558	Sediment Pulp	6.21	12.07	51.55	142.8	147	13.2	26.0	3339	1.82	2.2	1.1	<0.2	0.3	10.4	0.87	0.22	0.22	27	0.18	0.061
17GB0561	Sediment Pulp	9.16	10.75	101.59	60.3	280	4.7	21.4	3560	1.65	1.7	1.1	<0.2	0.5	5.9	09.0	0.28	0.22	17	0.09	0.128
17GB0562	Sediment Pulp	3.89	10.49	79.71	81.1	317	3.5	7.0	300	0.92	1.	1.	<0.2	1.0>	1.1	1.00	0.23	0.16	Ξ	0.35	0.140
17GB0563	Sediment Pulp	15.56	16.71	183.76	365.8	126	19.2	81.6 >1	>10000	4.83	7.0	8.0	<0.2	1.9	9.4	1.22	0.30	0.29	47	0.16	0.072
17GB0564	Sediment Pulp	11.49	10.54	118.08	141.3	182	11.9	71.8 >1	>10000	3.54	5.1	6.0	<0.2	0.5	9.3	0.85	0.24	0.28	45	0.12	0.085
17GB0565	Sediment Pulp	0.82	14.99	38.42	228.3	262	11.9	10.9	2330	1.34	1.6	6.0	<0.2	<0.1	62.1	3.84	0.26	0.18	53	1.07	0.143
17GB0566	Sediment Pulp	0.76	13.71	36.36	223.2	283	11.2	10.8	2399	1.35	1.9	8.0	<0.2	<0.1	58.7	3.55	0.27	0.17	28	1.02	0.138
17GB0567	Sediment Pulp	0.93	18.69	102.36	174.7	217	17.9	15.6	7100	2.48	3.8	6.0	<0.2	c0.1	38.3	2.62	0.41	0.32	46	0.64	0.155
17GB0570	Sediment Pulp	2.39	12.63	64.19	296.3	238	15.5	31.5	9928	2.23	5.4	9.0	<0.2	c0.1	59.9	6.57	0.35	0.28	20	76.0	0.158
17GB0570C	Sediment Pulp	0.57	21.26	18.80	49.9	1688	31.2	10.9	325	2.02	91.2	1.3	3.5	3.1	20.2	0.12	0.54	0.35	동	0.50	0.047
17GB0577	Sediment Pulp	1.15	17.94	53.12	239.5	203	14.9	11.3	2218	1.74	2.1	4.	<0.2	<0.1	61.4	3.84	0.34	0.16	35	1.21	0.115
17GB0579	Sediment Pulp	4.27	32.72	285.27	208.1	253	16.2	15.5	8735	2.78	10.5	3.3	0.7	0.2	29.4	6.45	69.0	0.41	65	29.0	0.162
17GB0580	Sediment Pulp	0.84	21.95	81.45	358.9	167	17.1	9.7	2233	1.27	1.4	6.0	<0.2	<0.1	51.9	8.12	0.42	0.15	23	0.81	0.113
17GB0581	Sediment Pulp	0.87	20.55	113.40	241.8	250	11.0	æ. 1.	1238	0.73	<0.1	1.1	<0.2	<0.1	43.5	5.17	0.34	0.16	14	0.64	0.144
17GB0582	Sediment Pulp	11.90	15.34	120.19	99.2	400	6.1	0.9	581	0.67	1.8	1.1	0.2	<0.1	11.1	1.26	0.36	0.23	14	0.15	0.150
17GB0583	Sediment Pulp	37.49	12.25	106.57	94.2	295	4.6	11.2	5981	2.37	3.7	1.0	9.0	0.2	2.8	0.49	0.46	0.31	23	0.04	0.196
17GB0584	Sediment Pulp	3.26	15.65	86.60	53.6	293	5.2	5.4	1852	0.79	6.0	1.5	0.5	<0.1	8.4	1.12	1.16	0.31	14	0.11	0.151
17GB0585	Sediment Pulp	13.24	18.94	216.64	267.0	338	8.2	6.4	1378	1.13	2.3	6.0	0.2	<0.1	11.2	4.14	0.35	0.25	19	0.19	0.133
17GB0586	Sediment Pulp	14.84	18.42	221.52	259.4	348	9.2	8.0	2008	1.37	3.4	6.0	6.4	<0.1	10.3	3.86	0.38	0.27	22	0.17	0.127
17GB0598	Sediment Pulp	2.79	16.88	68.82	136.1	181	10.9	20.5	4253	1.58	1.7	0.5	0.4	<0.1	23.8	2.85	0.32	0.21	34	0.21	0.122
17GB0600	Sediment Pulp	0.93	15.64	57.00	177.6	212	10.8	11.8	1616	1.33	1.7	8.0	<0.2	<0.1	48.8	2.97	0.23	0.19	30	0.54	D.104
17GB0601	Sediment Pulp	1.26	13.94	41.35	273.3	128	14.2	12.7	1916	2.20	2.8	6.0	<0.2	0.5	29.5	2.90	0.19	0.14	38	0.41	0.063
17GB0602	Sediment Pulp	1.36	12.77	40.61	262.5	114	15.0	13.3	2121	2.21	2.9	8.0	<0.2	9.0	27.5	2.85	0.18	0.13	38	0.40	0.058
17GB0610	Sediment Pulp	1.35	12.72	35.20	220.3	178	15.5	13.2 >1	>10000	2.00	7.3	4.9	0.3	0.3	70.4	2.12	0.30	0.24	23	1.36	0.177
17GB0613	Sediment Pulp	1.54	13.23	60.84	175.6	653	10.7	13.0	1645	0.87	1.5	8.0	<0.2	<0.1	51.6	4.31	0.25	0.16	15	0.81	0.115
17GB0619	Sediment Pulp	5.78	19.05	218.22	277.5	309	11.2	22.5	4865	1.18	5.7	2.3	<0.2	0.2	20.8	2.31	0.32	0.20	70	0.37	0.121
17GB0620	Sediment Pulp	5.89	21.32	246.16	183.2	273	9.5	9.6	391	0.70	4.2	3.1	0.7	<0.1	16.4	1.42	0.35	0.20	17	0.28	0.135

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval, preliminary reports are unsigned and should be used for reference only.

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BUREAU MINERAL LABORATORIES
VERITAS Canada Bureau Veritas Commodities Canada Ltd.

Nova Scotia Dept. of Natural Resources 1701 Holls St. P.O. Box 698 Halifax Nova Scotia B3J 2T9 Canada None Given November 29, 2017 Project: Report Date: Client: www.bureauveritas.com/um

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CERTIFICATE OF ANALYSIS

	Method	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
	Analyte	La	ဝံ	Mg	Ba	F	m	₹	S	¥	≥	သိ	F	Ø	£	Se	ē	Ga
	Unit	mdd	шdd	%	mdd	%	mdd	%	%	%	mdd	mdd	mdd	%	qdd	mdd	mdd	mdd
	MDL	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1
17GB0544	Sediment Pulp	1.69	19.2	0.34	47.9	0.077	<20	3.14	0.007	0.06	0.1	2.8	0.27	0.13	313	3.5	0.02	10.3
17GB0546	Sediment Pulp	111.2	24.1	0.12	130.1	0.011	<20	1.91	0.012	0.03	0.4	1.5	0.34	0.26	240	5.3	0.02	3.9
17GB0556	Sediment Pulp	142.1	21.5	0.14	99.5	0.027	<20	2.68	900.0	0.06	0.1	1.5	1.55	0.15	251	6.5	<0.02	11.8
17GB0558	Sediment Pulp	40.1	17.6	0.24	61.4	0.028	<20	2.26	0.007	0.05	4 0.1	1.8	0.37	0.16	153	2.7	<0.02	5.3
17GB0561	Sediment Pulp	47.2	11.1	0.05	36.3	0.014	<20	3.34	900.0	0.03	¢0.1	1.5	0.37	0.23	398	5.3	<0.02	5.7
17GB0562	Sediment Pulp	41.3	7.7	0.04	38.6	0.008	<20	2.70	0.005	0.02	0.1	4.0	0.22	0.39	304	4.5	<0.02	0.9
17GB0563	Sediment Pulp	38.8	22.3	0.32	57.3	0.057	<20	2.34	0.008	0.06	¢0.1	2.9	0.69	90.0	161	2.2	0.04	10.7
17GB0564	Sediment Pulp	31.8	18.7	0.19	72.4	0.027	<20 <	2.27	0.009	0.07	4 0.1	1.9	0.72	0.12	202	2.7	0.02	9.5
17GB0565	Sediment Pulp	31.8	16.6	0.23	117.7	0.034	×20	1.27	0.011	0.05	<0.1	1.2	0.24	0.22	176	3.2	<0.02	3.7
17GB0566	Sediment Pulp	30.6	15.3	0.22	113.7	0.032	<20	1.25	0.010	0.05	<0.1	1.1	0.23	0.21	176	3.1	<0.02	3.6
17GB0567	Sediment Pulp	24.0	21.6	0.30	134.4	0.048	<20	1.98	900'0	0.06	<0.1	2.3	0.42	0.16	262	3.1	0.04	6.5
17GB0570	Sediment Pulp	26.6	17.2	0.24	205.0	0.043	<20	1.14	0.010	0.05	¢0.1	1.7	0.68	0.22	226	3.2	<0.02	4.0
17GB0570C	Sediment Pulp	16.1	61.8	0.60	43.5	0.067	<20	1.10	0.022	0.09	0.2	3.9	0.07	<0.02	114	0.1	<0.02	4.0
17GB0577	Sediment Pulp	42.6	19.4	0.37	130.0	0.062	<20	1.40	0.013	0.06	¢0.1	2.3	0.28	0.17	141	3.0	<0.02	4.2
17GB0579	Sediment Pulp	100.4	31.2	0.33	140.8	0.105	<20	1.77	900'0	0.07	<0.1	4.2	1.68	0.16	194	3.4	0.04	8.3
17GB0580	Sediment Pulp	71.8	18.9	0.28	145.9	0.045	<20	1.59	0.010	0.05	<0.1	1.6	0.53	0.18	134	5.2	<0.02	3.4
17GB0581	Sediment Pulp	89.4	16.5	0.17	128.2	0.013	<20	1.62	0.009	0.05	<0.1	9.0	0.46	0.31	183	5.3	<0.02	2.7
17GB0582	Sediment Pulp	262.3	10.4	0.11	67.1	0.008	<20	1.85	900.0	0.04	0.1	0.4	0.84	0.37	219	5.7	<0.02	4.1
17GB0583	Sediment Pulp	80.1	12.3	0.09	22.7	0.019	<20	3.42	0.002	0.05	<0.1	8.0	0.70	0.19	378	6.5	0.03	8.8
17GB0584	Sediment Pulp	167.7	9.4	0.08	50.9	0.014	<20	2.06	0.005	0.05	<0.1	8.0	0.65	0.22	285	8.9	<0.02	3.6
17GB0585	Sediment Pulp	176.7	13.2	0.13	65.3	0.022	<20 <	2.46	0.005	0.03	<0.1	0.9	0.76	0.34	294	5.8	<0.02	5.2
17GB0586	Sediment Pulp	171.1	14.5	0.16	6.09	0.026	<20	2.49	0.005	0.03	<0.1	1.1	0.86	0.31	291	5.3	<0.02	5.7
17GB0598	Sediment Pulp	23.7	15.6	0.13	158.0	0.029	<20	1.43	0.011	0.11	-0 .1	1.0	0.22	0.20	228	3.3	<0.02	3.6
17GB0600	Sediment Pulp	26.1	20.8	0.22	172.5	0.031	<20	1.72	0.009	0.05	0.1	1.1	0.14	0.17	167	3.4	<0.02	3.5
17GB0601	Sediment Pulp	16.4	20.7	0.40	183.0	0.082	<20	1.35	600.0	0.05	0.1	2.4	0.14	0.09	101	1.3	<0.02	4.5
17GB0602	Sediment Pulp	15.8	20.2	0.40	176.4	0.083	<20	1.32	0.009	0.04	0.2	2.3	0.13	0.07	75	1.1	<0.02	£.4
17GB0610	Sediment Pulp	13.0	18.7	0.17	8.099	0.006	<20	1.25	900.0	0.04	<0.1	1.8	0.18	0.24	326	3.1	0.03	2.9
17GB0613	Sediment Pulp	20.4	17.7	0.19	324.2	0.019	<20	1.02	0.008	0.04	<0.1	1.1	0.15	0.30	210	3.0	<0.02	2.7
17GB0619	Sediment Pulp	70.1	21.5	0.14	111.8	0.020	<20	3.49	900.0	0.05	0.3	2.2	96.0	0.20	239	6.8	<0.02	3.6
17GB0620	Sediment Pulp	90.6	25.6	0.14	84.6	0.012	<20	3.09	0.004	0.04	0.2	1.0	0.64	0.29	191	7.9	<0.02	3.3

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Nova Scotia Dept. of Natural Resources 1701 Holls St. P.O. Box 696 Client:

Halifax Nova Scotia B3J 2T9 Canada

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VERITAS Canada Bureau Veritas Commodities Canada Ltd. 9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada PHONE (604) 253-3158

CERTIFICATE OF ANALYSIS

Project: Report Date:

November 29, 2017

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Method	AQ250	AQ250	AQ250	AQ250	AQ250 /	AQ250	AQ250 ,	AQ250												
Analyte	Mo	ចី	Pp	Zu	Ag	Z	ပိ	M	Fe	As	>	Ā	ᆮ	ស	ខ	Sp	ö	>	S	Δ
Unit	mdd	mdd	mdd	mdd	qdd	mdd	mdd	mdd	%	mdd	mdd	qdd	mdd	mdd	mdd	mdd	mdd	mdd	%	%
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	-	0.01	0.1	0.1	0.2	0.1	9.6	0.01	0.02	0.02	2	0.01	0.001
Sediment Pulp	0.51	12.88	35.47	64.4	288	7.1	4.2	266	0.33	<0.1	9.0	<0.2	<0.1	39.8	2.06	0.20	0.15	6	0.73	0.109
Sediment Pulp	1.55	17.35	46.46	263.6	310	24.4	25.5	9903	3.36	5.0	1.1	<0.2	0.1	54.8	2.64	0.28	0.19	29	0.97	0.155
Sediment Pulp	1.42	15.81	44.22	244.1	288	25.0	23.3	9458	3.27	4.9	1.0	<0.2	0.1	49.5	2.56	0.25	0.19	57	0.88	0.142
Sediment Pulp	3.50	28.43	83.93	254.5	162	16.1	13.1	1273	4.03	9.6	5.9	<0.2	1.3	21.2	3.00	0.33	0.25	37	0.41	0.116
Sediment Pulp	6.41	29.67	126.73	507.5	186	18.7	31.5	8445	3.04	8.7	5.4	0.2	6.0	40.0	8.02	0.35	0.36	33	0.95	0.097
Sediment Pulp	80.9	23.51	74.09	205.7	159	26.3	63.5	1884	3.47	13.0	1.4	<0.2	1.5	14.7	1.70	0.34	0.26	48	0.17	0.067
Sediment Pulp	L.N.R.	L.N.R.	LNR	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L'N.R.	L.N.R.							

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Sediment Pulp

17GB0621 17GB0622 17GB0623 17GB0631 17GB0635 17GB0635 17GB0635 17GB0235C

ALTAS BURNESS

Nova Scotia Dept. of Natural Resources 1701 Holls St. P.O. Box 698 Halifax Nova Scotia B3J 2T9 Canada Client:

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BUREAU MINERAL LABORATORIES
VERITAS Canada Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada PHONE (604) 253-3158

CERTIFICATE OF ANALYSIS

None Given November 29, 2017

Project: Report Date:

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Part:

VAN17002654.1

0 AQ250	Te		12 0.1	1.7	2 6.9	2 6.6	3.6	5 3.4	2 5.1	R. L.N.R.	
AQ25		mdd		<0.02		0.02	0.03	0.05	0.02	L.N.R.	
AQ250 AQ250	Se	mdd	0.1		2.5	2.4	1.3	2.0	1.2	L.N.R.	000
AQ250	Ę	qdd	2	141	259	219	100	122	06	L.N.R.	4
AQ250	Ø	%	0.02		0.21	0.19	0.17	0.13	0.05	Z.	90
AQ250	F	mdd	0.02	90.0	0.40	0.35	0.35	1.08	1.32	N.R.	0
AQ250	သွင	mdd	0.1		2.2	2.2	2.4	2.3	3.3	L.N.R.	,
AQ250	≥	mdd	0.1	<0.1	<0.1	<0.1	9.0	0.2	<0.1	L'N.R.	077 0007 100 000
AQ250	¥	%	0.01	0.05	0.06	0.06	0.07	0.12	0.07	L.N.R.	
AQ250	R	%	0.001	0.008		0.008	0.065	0.011	0.00	L.N.R.	000
AQ250	₹	*	0.01	62.0	2.61	2.53	1.48	1.79	1.62	L.N.R.	000
AQ250	m	mdd	20	<20	<20	<20	<20	<20	<20	L'N.R.	ç
AQ250	F	%	0.001	0.013	0.057	0.056	0.039	0.027	0.056	L.N.R.	000
AQ250	Ba	mdd	0.5	174.1	184.1	172.1	157.2	207.1	64.2	L.N.R.	9
AQ250	Mg	%	0.01	0.13	0.42	0.43	0.29	0.28	0.33	L'N.R.	0000 000
AQ250	ច	шdd	0.5	13.5	25.4	25.4	21.7	16.3	19.9	L.N.R.	2
Method AQ250	La	mdd	0.5	22.7	24.1	22.9	39.1	63.4	20.3	L.N.R.	
Method	Analyte	Unit	MDL	Sediment Pulp	in C through a						
				17GB0621	17GB0622	17GB0623	17GB0631	17GB0632	17GB0635	17GB0635C	44000000



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BUREAU MINERAL LABORATORIES VERITAS Canada	www.bureauveritas.com/um	Project:	None Given		
Bureau Veritas Commodities Canada Ltd.		Report Date:	November 29, 2017		
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada PHONE (604) 253,3158		ſ			,
	•	Page:	1 01 2	Part: 1 of	5
QUALITY CONTROL REPORT	ORT		VAN17002654.1	4.1	

	Method	AQ250	AQ250 ,	AQ250 ,	AQ250 A	AQ250 AC	AQ250 AC	AQ250 A(AQ250 A	AQ250 A	AQ250 A	AQ250 A	AQ250 /	AQ250 /	AQ250 /	AQ250 /	AQ250 ,	AQ250 /	AQ250 ,	AQ250	AQ250
	Analyte	Mo	3	g.	Z,				M	æ	As	⊃	Ā	£	Š	8	Sp	ö	>	ឌ	Δ
	Onit	шdd	mdd	шdd	mdd	qdd	mdd	udd	mdd	%	шфф	mdd	qdd	шфф	mdd	mdd	mdd	шdd	mdd	%	%
	MDL	0.01	0.01	0.01	0.1				-	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
Pulp Duplicates																					
16GB0120	Sediment Pulp	0.41	43.95	19.69	101.7	28	24.4	16.8	696	3.45	5.6	0.7	4.1	1.4	23.6	0.31	0.15	0.12	92	0.48	0.054
REP 16GB0120	မွ	0.41	44.49	19.27	98.5	51	25.5	17.1	951	3.36	2.3	9.0	3.3	1.3	23.4	0.29	0.14	0.11	65	0.47	0.057
16DB204	Sediment Pulp	0.43	18.31	41.34	193.5	49	21.5	10.9	779	2.59	19.7	2.1	1.7	4.	65.1	1.65	0.37	0.16	47	0.38	0.066
REP 16DB204	သူ	0.44	18.65	42.93	188.9	20	22.0	11.0	821	2.59	21.0	2.2	1.3	1.3	65.3	1.75	0.39	0.15	47	0.39	0.067
17GB0031	Sediment Pulp	0.58	14.20	36.10	188.3	71	16.2	9.7	813	2.06	18.5	4.1	0.3	0.7	17.2	2.09	0.55	0.13	4	0.40	0.048
REP 17GB0031	သွ	0.59	14.06	36.98	196.5	72	15.9	9.7	814	2.06	19.2	1.5	1.0	8.0	17.2	2.32	0.58	0.12	48	0.41	0.050
17GB0090	Sediment Pulp	8.50	17.92	132.62	285.8	309	14.2	22.5	5803	2.57	5.8	1.0	11.5	0.4	18.1	3.09	0.45	0.21	20	0.42	0.097
REP 17GB0090	oc	8.66	18.39	135.70	289.0	315	15.0	22.5	5767	2.57	6.3	1.0	10.5	0.5	19.3	3.05	0.46	0.21	20	0.42	0.089
17GB0128A	Sediment Pulp	0.43	15.80	31.10	163.0	45	15.3	10.3	168	2.25	3.1	9.0	4.0	1.5	14.7	0.81	0.18	0.13	42	0.33	0.049
REP 17GB0128A	သွ	0.42	15.80	31.39	156.4	37	15.5	10.4	206	2.30	3.4	9.0	0.3	1.4	14.8	0.81	0.19	0.12	42	0.34	0.049
17GB0195	Sediment Pulp	6.54	10.07	37.46	155.9	52	11.0	11.0	2436	2.11	3.0	9.1	0.5	1.9	11.1	1.16	0.22	0.18	42	0.25	0.039
REP 17GB0195	၁ဗ	7.06	11.00	39.66	169.4	26	11.7	11.5	2633	2.28	3.5	1.8	8.0	2.2	11.7	1.26	0.26	0.18	51	0.26	0.040
17GB0403	Sediment Pulp	0.26	12.44	15.49	44.9	28	12.5	7.5	974	1.93	2.5	9.0	9.0	1.6	10.0	0.31	0.17	0.14	27	0.16	0.032
REP 17GB0403	oc	0.26	12.43	16.48	46.1	23	12.5	7.4	686	1.89	2.5	9.0	<0.2	1.5	9.6	0.28	0.18	0.15	27	0.16	0.032
17GB0503	Sediment Pulp	4.48	17.11	121.28	215.0	29	13.5	18.6	919	2.13	6.9	5.6	4.0	2.5	16.9	3.35	0.20	0.26	36	0.33	0.043
REP 17GB0503	သွ	4.45	16.53	116.63	211.1	61	12.8	18.2	884	2.20	7.2	2.6	<0.2	2.5	17.5	3.22	0.21	0.26	37	0.33	0.042
17GB0584	Sediment Pulp	3.26	15.65	86.60	53.6	293	5.2	5.4	1852	0.79	6.0	1.5	0.5	6 0.1	8.4	1.12	1.16	0.31	4	0.11	0.151
REP 17GB0584	۵C	3.59	15.45	89.41	53.4	315	5.3	5.6	1918	0.82	1.1	1.6	9.0	<0.1	8.7	1.18	1.21	0.31	15	0.11	0.150
Reference Materials																					
STD DS11	Standard	12.39	140.07	130.90	316.1	1677	70.1	12.0	971	2.87	42.6	2.5	45.4	6.9	8.99	2.40	7.31	11.90	46	0.97	0.070
STD DS11	Standard	11.93	150.65	133.27	320.8	1637	71.4	12.4	1006	3.03	45.7	2.5	99.3	7.3	6.99	2.47	7.35	12.82	49	1.04	0.076
STD DS11	Standard	13.88	146.65	142.80	346.1	1637	73.3	12.7	892	2.95	44.6	5.6	52.7	7.6	71.5	2.51	7.39	12.94	47	1.03	0.069
STD DS11	Standard	14.34	146.32	143.40	350.7	1641	77.8	13.9	1034	3.07	45.0	5.6	73.7	7.7	72.0	5.66	7.36	13.17	49	1.05	0.074
STD DS11	Standard	13.30	153.74	149.42	370.4	1820	76.7	13.9	1070	3.27	46.0	2.8	81.3	8.2	8.92	5.66	2.06	13.37	52	1.13	0.077
STD DS11	Standard	13.92	150.07	146.31	363.2	1527	76.5	14.0	1023	3.13	45.1	2.8	51.3	7.6	68.9	2.48	6.97	13.14	49	1.07	0.076
STD DS11	Standard	13.68	153.30	145.63	359.8	1783	77.2	14.0	1024	3.13	46.3	2.7	58.2	7.7	9.07	2.65	7.04	13.20	20	1.06	0.075
STD DS11	Standard	13.29	148.59	150.00	350.5	1782	73.2	13.0	1028	3.04	44.7	2.7	140.5	8.3	72.9	2.51	7.94	13.09	47	1.02	0.072
STD DS11	Standard	12.53	138.54	135.25	332.0	2392	6.69	12.8	972	2.91	42.4	2.4	144.4	7.3	66.3	2.44	6.85	12.35	48	0.99	0.070



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None Given

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QUALITY CONTROL REPORT

November 29, 2017 Project: Report Date:

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Part:

nomaki	AQ250	AQ250	AQ250 /	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250 AQ250		AQ250	AQ250	AQ2
Analyte	La	ర	Mg	Ba	F	20	₹	Š	¥	≥	တ္တ	F	Ø	Ηg	Se	Тe	U
Unit	mdd	mdd	%	mdd	%	mdd	%	%	%	mdd	mdd	udd	%	qdd	mdd	шdd	d
MDL	0.5	0.5	0.01	9.0	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	2	0.1	0.02	۰
Sediment Pulp	12.4	28.4	0.76	87.8	0.183	<20	2.21	0.012	90:0	<0.1	3.9	0.12	0.02	179	0.7	<0.02	ဖ
ac	12.2	28.7	0.74	62.9	0.185	<20	2.15	0.011	90:0	<0.1	4.1	0.11	0.04	185	0.5	<0.02	9
Sediment Pulp	27.0	23.3	0.50	109.9	0.067	<20	1.53	0.011	0.12	0.2	3.9	0.34	0.03	94	9.0	<0.02	4
ac	27.7	24.1	0.49	109.7	0.068	<20	1.55	0.010	0.11	0.2	3.9	0.35	0.03	06	9.0	<0.02	4
Sediment Pulp	19.5	20.3	0.43	55.4	0.073	<20	1.19	0.008	0.05	0.2	2.7	0.27	0.04	51	0.5	<0.02	4
ac	21.4	20.2	0.42	54.6	0.073	<20	1.21	600.0	0.05	0.3	2.6	0.29	0.04	22	0.3	<0.02	4
Sediment Pulp	33.2	17.4	0.38	69.5	0.092	<20	1.90	0.006	0.05	<0.1	2.8	0.55	0.11	156	1.7	<0.02	5
ac	35.3	18.0	0.38	71.4	960.0	<20	1.90	0.009	0.05	<0.1	2.8	0.56	0.11	168	1.7	<0.02	9
Sediment Pulp	13.8	17.0	0.47	45.1	0.093	<20	1.10	0.008	0.07	<0.1	2.4	0.13	0.04	20	0.4	<0.02	4
ac	13.0	16.4	0.47	44.5	060.0	<20	1.11	600.0	90.0	<0.1	2.4	0.12	0.03	40	0.4	<0.02	4
Sediment Pulp	21.0	15.7	0.29	55.8	0.097	<20	0.91	0.004	0.04	0.2	1.9	0.19	0.02	28	0.4	<0.02	4
ac	23.7	17.0	0:30	63.6	0.102	<20	0.97	0.005	0.04	0.2	2.1	0.19	0.03	31	0.5	<0.02	4
Sediment Pulp	13.6	14.6	0.31	60.1	0.039	<20	0.88	600.0	90:0	<0.1	2.1	0.08	<0.02	23	0.2	<0.02	2
oc oc	11.9	13.9	0:30	58.7	0.041	<20	0.88	0.008	0.05	<0.1	2.1	0.08	<0.02	25	0.1	<0.02	7
Sediment Pulp	36.9	14.9	0.35	50.9	0.112	<20	1.05	0.006	0.04	0.1	3.1	0.86	0.04	42	8.0	60:0	5
oc	35.5	14.3	0.36	50.1	0.110	<20	1.04	900.0	0.05	0.2	3.2	0.81	0.04	44	0.7	60.0	2
Sediment Pulp	167.7	9.4	0.08	6.03	0.014	<20	2.06	0.005	0.05	<0.1	8.0	0.65	0.22	285	8.9	<0.02	3
ac	174.4	10.2	0.08	52.5	0.014	<20	2.08	0.004	0.05	<0.1	0.9	0.68	0.23	275	7.8	<0.02	в
Standard	17.5	52.1	0.78	409.2	0.082	<20	1.07	0.066	0.38	2.7	3.0	4.75	0.27	243	2.0	4.30	4
Standard	17.6	54.8	0.82	409.8	0.087	<20	1.11	0.073	0.39	2.7	3.2	4.92	0.27	251	2.2	4.37	4
Standard	19.0	54.2	0.83	437.0	0.089	<20	1.10	0.071	0.40	2.6	3.0	5.05	0.27	259	2.4	4.56	4
Standard	19.4	56.1	0.84	437.2	0.091	<20	1.15	0.074	0.40	2.8	3.2	5.25	0.28	313	2.2	4.70	2
Standard	19.5	9.99	0.91	459.7	0.094	<20	1.19	0.077	0.44	2.9	3.5	5.49	0.31	264	2.3	5.03	2
Standard	20.0	55.8	0.84	470.6	0.092	<20	1.15	0.073	0.40	3.0	3.3	5.31	0.29	253	2.3	4.67	5
Standard	19.4	58.2	0.84	476.5	0.093	<20	1.13	0.074	0.40	3.1	3.1	5.30	0.28	564	2.2	4.89	4
Standard	18.6	55.3	0.82	417.7	060'0	<20	1.13	0.067	0.39	3.3	3.0	5.20	0.28	281	2.5	4.66	2
Standard	17.3	53.0	0.80	411.8	0.083	²⁰	1.09	0.067	0.38	3.5	3.1	4.90	0.28	270	2.1	4.58	4
	Unit MDL MDL C adiment Pulp C andard andard andard andard	iment Pulp iment Iment Pulp iment Imen Imen Imen Imen Imen Imen Imen Imen	Munit Dum Dunit Dunit	Iment Pulp 12, 28,4 0 0 iment Pulp 12,2 28,7 0 0 iment Pulp 12,2 28,7 0 iment Pulp 13,2 17,4 0 0 iment Pulp 13,8 17,4 0 0 iment Pulp 13,8 17,0 0 iment Pulp 13,8 17,0 0 iment Pulp 13,8 14,9 0 iment Pulp 13,9 14,9 0 iment Pulp 14,4 10,2 0 iment Pulp 15,5 14,9 0 iment Pulp 16,5 5,5 14,9 0 iment Pulp 16,7 7 9,4 0 iment Pulp 17,6 54,8 0 indard 19,4 56,1 0 indard 19,5 56,6 0 indard 19,5 56,5 0 indard 17,3 53,0 0 indard 17,3 5,0 0 indard 17,3 53,0 0 indard 17,3 5,0 0 indard 17,3	Unit ppm ppm % MDL 0.5 0.5 0.01 iment Pulg 12.4 28.4 0.76 iment Pulg 27.0 28.3 0.50 iment Pulg 27.7 24.1 0.49 iment Pulg 27.7 24.1 0.49 iment Pulg 33.2 17.4 0.38 iment Pulg 33.2 17.4 0.38 iment Pulg 33.2 17.0 0.47 iment Pulg 35.3 18.0 0.30 iment Pulg 35.3 14.6 0.31 iment Pulg 36.9 14.9 0.35 iment Pulg 36.9 14.9 0.36 iment Pulg 36.9 14.9 0.36 idand 17.6 54.8 0.08 idand 17.6 54.8 0.08 idand 19.0 54.2 0.81 idand 19.4 56.6 0.91 idand 19.4 </td <td>Molult Ppm O.5 Color of C</td> <td>Modulty by Lat Not by Modult Modult by Modult Modult by Modult Modult by Modult Mod</td> <td>Multiplier La Ur Mg Ppm % ppm</td> <td>Mobile ppm % ppm % ppm % Mobile 0.5 0.5 0.01 0.5 0.01 0.0 0.01 Inment Pulg 12.2 28.7 0.74 62.9 0.165 <20</td> 2.21 Inment Pulg 12.2 28.7 0.74 62.9 0.165 <20	Molult Ppm O.5 Color of C	Modulty by Lat Not by Modult Modult by Modult Modult by Modult Modult by Modult Mod	Multiplier La Ur Mg Ppm % ppm	Mobile ppm % ppm % ppm % Mobile 0.5 0.5 0.01 0.5 0.01 0.0 0.01 Inment Pulg 12.2 28.7 0.74 62.9 0.165 <20	Molity by Englands La of Molity by Englands M	Multiplier La Orango orange Page N Approximation N Page N N N N N Page N <td>Mobile byte byte byte byte byte byte byte byt</td> <td>Montaly big La VI Mg PA PA PA Na Na Na PA PA AN Na Na PA PA AN Na PA PA PA Na Na Na Na PA PA Na Na</td> <td>Mobile La off Mg Pan A Mg Mg Pan Pan</td> <td>WIDLING Part Name Part Name</td> <td>MIDITY PRINTING ATION PRINTING ATION PRINTING ATION ATION</td> <td>MDL 0.5 0.01 0.02 0.01 0.02 0.02 0.02 0.03 0.04 0</td>	Mobile byte byte byte byte byte byte byte byt	Montaly big La VI Mg PA PA PA Na Na Na PA PA AN Na Na PA PA AN Na PA PA PA Na Na Na Na PA PA Na Na	Mobile La off Mg Pan A Mg Mg Pan Pan	WIDLING Part Name Part Name	MIDITY PRINTING ATION PRINTING ATION PRINTING ATION ATION	MDL 0.5 0.01 0.02 0.01 0.02 0.02 0.02 0.03 0.04 0

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this centificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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None Given

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		AQ250	AQ250	AQ250	AQ250 ,	AQ250	AQ250 ,	AQ250	AQ250	AQ250	AQ250	AQ250 /	AQ250 /	4Q250 /	AQ250 /	AQ250 /	AQ250 ,	AQ250 /	AQ250 /	AQ250 /	AQ250
		Mo	3	ď	Z	Ag	ž	გ	Ā	Fe	As	⊃	Ā	£	ភ	ខ	Sp	10	>	S	Δ
		mdd	mdd	шdd	mdd	qdd	mdd	mdd	mdd	%	шdd	mdd	qdd	шdd	mdd	mdd	mdd	mdd	mdd	%	%
		0.01	0.01	0.01	0.1	7	0.1	0.1	-	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	7	0.01	0.001
STD DS11 SI	Standard	13.09	140.08	134.83	331.6	1755	72.4	13.1	983	2.94	42.1	2.4	8.66	7.8	65.5	2.44	7.51	12.35	47	1.02	0.066
STD OREAS45EA SI	Standard	1.39	684.48	15.22	31.4	243	365.7	50.1	409	21.08	11.4	1.9	48.3	10.6	4.0	0.03	0.23	0.29	290	0.04	0.028
STD OREAS45EA SI	Standard	1.39	646.07	13.80	29.0	230	374.8	48.0	394	20.10	10.7	1.8	61.8	10.1	3.7	0.02	0.28	0.29	290	0.03	0.028
STD OREAS45EA SI	Standard	1.49	697.21	15.74	32.2	262	382.6	54.8	453	22.42	11.6	2.0	59.0	11.9	4.1	0.03	0.22	0.31	303	0.04	0.031
STD OREAS45EA SI	Standard	1.54	691.29	15.72	33.3	261	392.5	54.4	421	22.35	11.8	2.0	58.6	11.2	4.2	0.03	0.27	0.29	309	0.03	0.030
STD OREAS45EA SI	Standard	1.37	679.13	14.64	30.7	257	382.1	49.1	402	21.02	11.0	1.8	51.0	10.4	4.1	0.02	0.21	0.38	300	0.04	0.030
STD OREAS45EA SI	Standard	1.52	697.18	16.33	34.5	273	401.1	57.3	459	24.33	12.3	2.1	64.0	11.8	6.4	0.03	0.30	0.31	310	0.03	0.033
STD OREAS45EA SI	Standard	1.38	666.77	14.52	30.5	252	380.6	51.8	410	21.11	10.5	1.9	60.3	10.6	3.8	0.04	0.30	0.28	299	0.03	0.032
STD OREAS45EA SI	Standard	1.44	60.707	15.37	32.1	257	383.7	52.4	420	21.79	12.0	1.9	62.4	11.2	4.	0.02	0.26	0.29	302	0.04	0.030
STD OREAS45EA SI	Standard	1.42	649.37	14.78	30.1	250	353.5	49.6	383	19.73	11.1	1.9	56.0	10.7	3.9	0.02	0.27	0.28	283	0.04	0.028
STD OREAS45EA SI	Standard	1.76	683.86	15.66	35.6	298	395.0	53.8	447	24.03	10.5	1.9	54.6	11.3	4.2	0.03	0.34	0.21	301	0.03	0.031
STD OREAS45EA Expected		1.6	709	14.3	31.4	260	381	25	400	23.51	10.3	1.73	53	10.7	3.5	0.03	0.32	0.26	303	0.036	0.029
STD DS11 Expected		13.9	149	138	345	1710	7.77	14.2	1055	3.1	42.8	2.59	79	7.65	67.3	2.37	7.2	12.2	20	1.063 (0.0701
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	က	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	\$	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	۲	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	\$	<0.01	<0.001
BLK	Blank	<0.01	<0.01	0.02	0.1	~	<0.1	<0.1	-	<0.01	<0.1	40.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	Ÿ	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	4 0.1	7	6 0.1	4 0.1	ო	<0.01	<0.1	6 0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	Ÿ	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	7	<0.1	<0.1	۲	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	Ÿ	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	5	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	~	<0.1	<0.1	۲	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	7	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	۲	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	7	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	7	<0.01	<0.001
BLK	Blank	<0.01	0.48	0.02	0.1	4	<0.1	<0.1	۲>	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



Nova Scotia Dept. of Natural Resources 1701 Holls St. P.O. Box 698 Client:

Halifax Nova Scotia B3J 2T9 Canada

www.bureauveritas.com/um

BUREAU MINERAL LABORATORIES
VERITAS Canada Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada PHONE (604) 253-3158

QUALITY CONTROL REPORT

None Given November 29, 2017 Project: Report Date:

2 of 2

Part: 2 of 2

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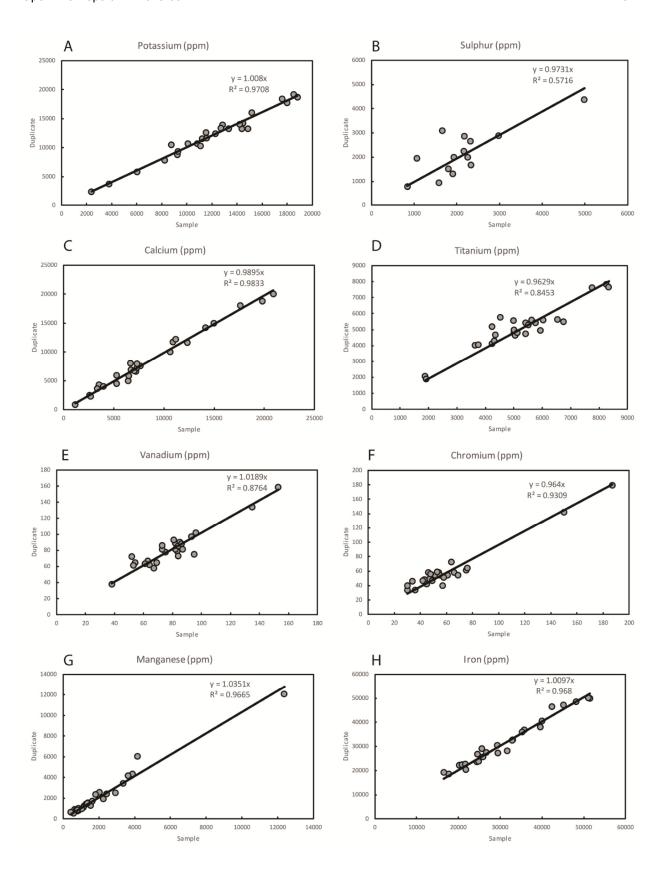
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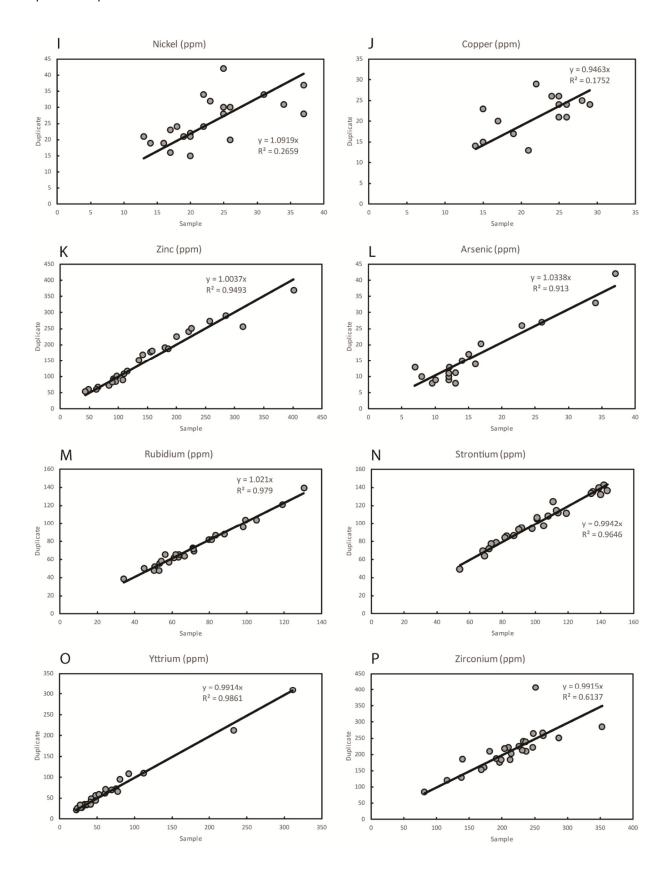
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		0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	2	0.1	0.02	٠.
STD DS11	Standard	17.2	57.4	08'0	400.4	0.088	<20	1.11	0.073	0.39	2.4	3.0	4.94	0.28	241	2.3	4.63	4.9
STD OREAS45EA S	Standard	7.2	820.9	0.10	145.3	0.095	<20	3.26	0.015	0.05	<0.1	77.1	0.07	0.03	16	1.1	0.07	12.2
STD OREAS45EA S	Standard	7.0	764.9	0.09	139.1	0.091	<20	3.06	0.023	0.05	<0.1	71.6	0.07	0.04	13	6.0	0.07	11.7
STD OREAS45EA S	Standard	7.7	839.9	0.11	153.9	0.100	<20	3.42	0.015	90.0	40.1	81.7	0.07	0.04	15	1.1	0.10	13.8
STD OREAS45EA S	Standard	7.6	820.0	0.11	152.5	0.102	<20	3.41	0.023	90.0	<0.1	79.8	0.07	0.04	11	1.1	60.0	13.6
STD OREAS45EA S	Standard	7.2	786.1	0.11	146.4	0.093	<20	3.33	0.015	90:0	<0.1	80.2	0.05	0.04	12	1.2	0.08	12.8
STD OREAS45EA S	Standard	1.8	880.0	0.11	167.8	0.110	<20	3.38	0.020	90.0	<0.1	89.0	0.08	0.04	4	1.1	60.0	11.4
STD OREAS45EA S	Standard	7.1	768.8	0.10	147.6	0.097	<20	3.20	0.022	0.05	<0.1	76.5	90:0	0.04	4	6.0	90.0	12.4
STD OREAS45EA S	Standard	7.3	837.7	0.10	152.5	0.099	<20	3.44	0.014	90.0	<0.1	80.3	0.07	0.04	6	1.3	60:0	12.5
STD OREAS45EA S	Standard	7.3	7.77.7	0.10	142.8	0.095	<20	3.05	0.013	0.05	<0.1	75.9	0.07	0.03	12	1.0	90.0	12.1
STD OREAS45EA S	Standard	7.6	934.3	0.10	162.8	0.100	<20	3.35	0.020	90:0	<0.1	78.9	90.0	0.04	21	1.8	0.15	13.5
STD OREAS45EA Expected		7.06	849	0.095	148	0.0984		3.13	0.02	0.053		78	0.072	0.036	10	0.78	0.07	12.4
STD DS11 Expected		18.6	61.5	0.85	417	0.0976		1.129	0.0694	0.4	2.9	3.1	9.	0.2835	260	2.2	4.56	4.7
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	~	<0.1	<0.02	<0.1
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	€0.01	<0.1	4 0.1	<0.02	<0.02	^ 2	4 0.1	<0.02	6 0.1
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	€0.01	<0.1	4 0.1	<0.02	<0.02	~	4 0.1	<0.02	6 0.1
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	~	<0.1	<0.02	6 0.1
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	~	<0.1	<0.02	6 0.1
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	6 0.1
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	~	<0.1	<0.02	٥٠ <u>1</u>
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	~	<0.1	<0.02	6 0.1
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	^2	<0.1	<0.02	6 0.1
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	\$	-0 .1	<0.02	c 0.1

Appendix C. QA/QC Charts

Figure C1. Duplicate sample cross-plots of XRF analyses demonstrating the reproducibility by pXRF for (A) potassium, (B) sulphur, (C) calcium, (D) titanium, (E) vanadium, (F) chromium, (G) manganese, (H) iron, (I) nickel, (J) copper, (K) zinc, (L) arsenic, (M) rubidium, (N) strontium, (O) yttrium, (P) zirconium, (Q) niobium, (R) molybdenum, (S) barium, and (T) lead. In all diagrams, the original sample is on the x-axis and the duplicate on the y-axis.





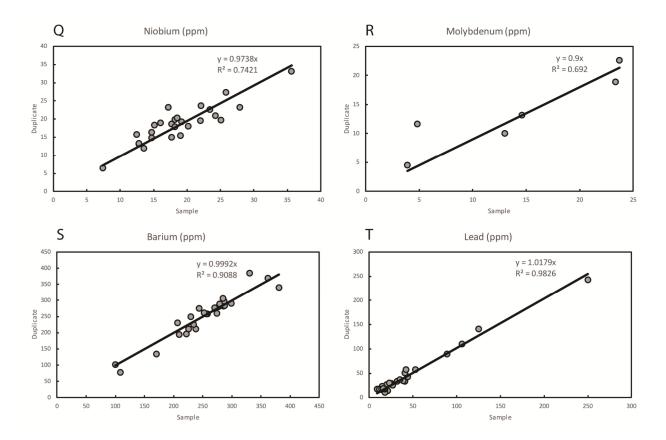
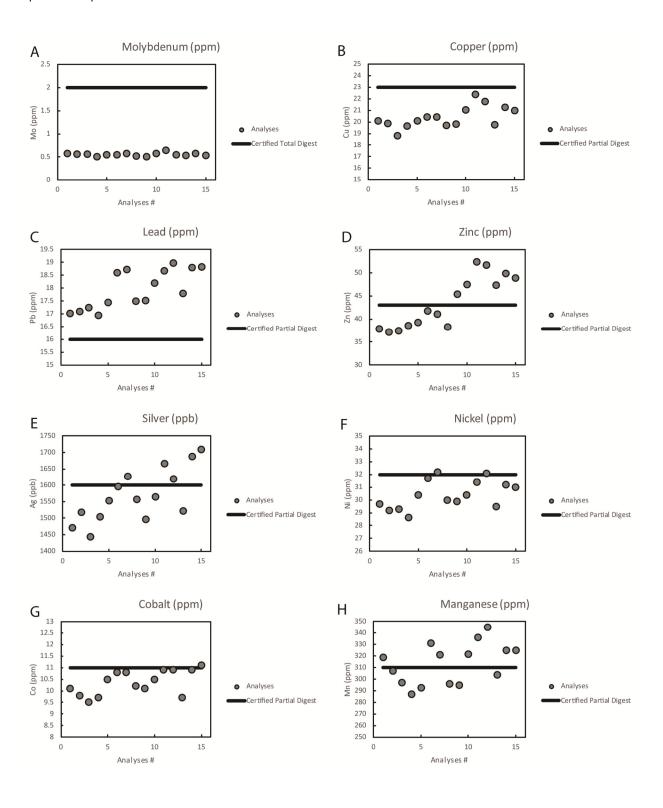
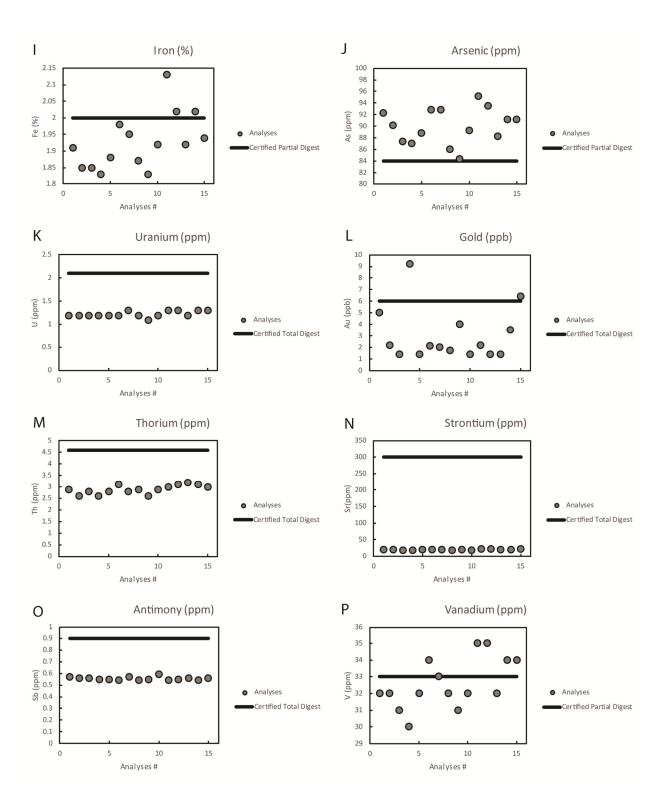


Figure C2. Reproducibility charts for 15 repeat analyses of CANMET standard reference material Till-3 analyzed by aqua regia ICP-MS. Plots show the aliquots analyzed as unknowns in each plot as circles, whereas the solid line is the certified value (values from Lynch, 1996). Whenever possible, the certified values for partial digestion were used to maximize the match to the data from aqua regia digestion; however, for some elements the total digestion certified values were used. Elements that have not been plotted either lack certified values for Till-3 or had too many aliquots that were non-detectable. (A) Molybdenum, (B) copper, (C) lead, (D) zinc, (E) silver, (F) nickel, (G) cobalt, (H) manganese, (I) iron, (J) arsenic, (K) uranium, (L) gold, (M) thorium, (N) strontium, (O) antimony, (P) vanadium, (Q) phosphorus, (R) lanthanum, (S) chromium, (T) barium, (U) titanium, (V) scandium, (W) mercury.





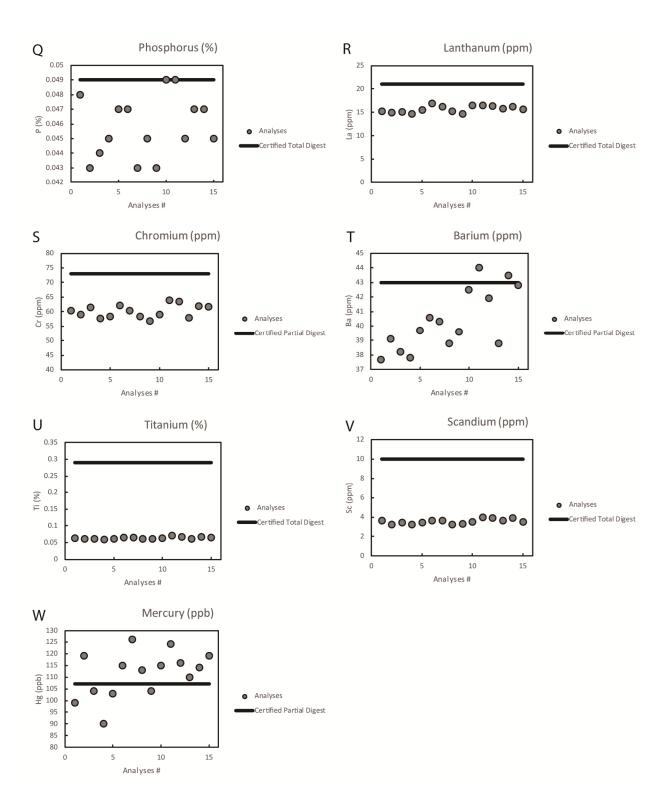
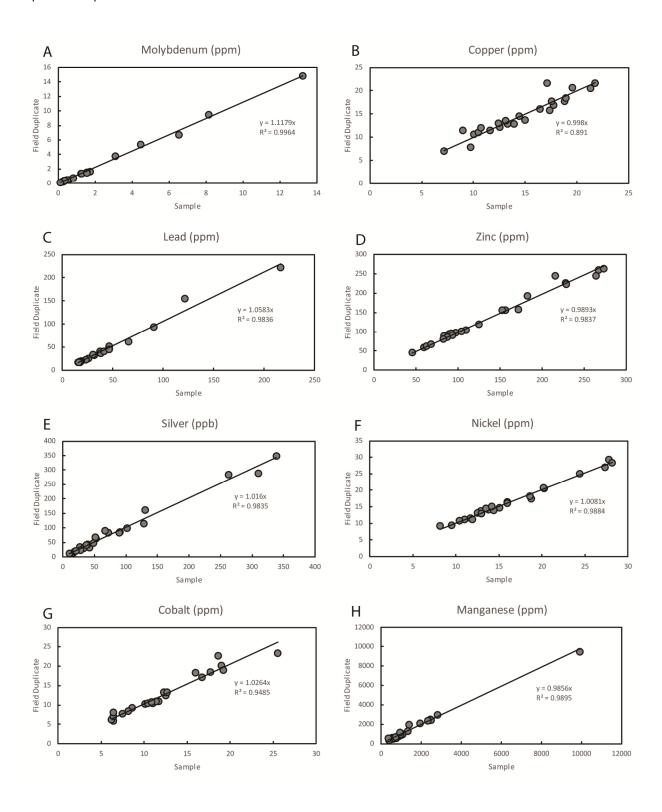
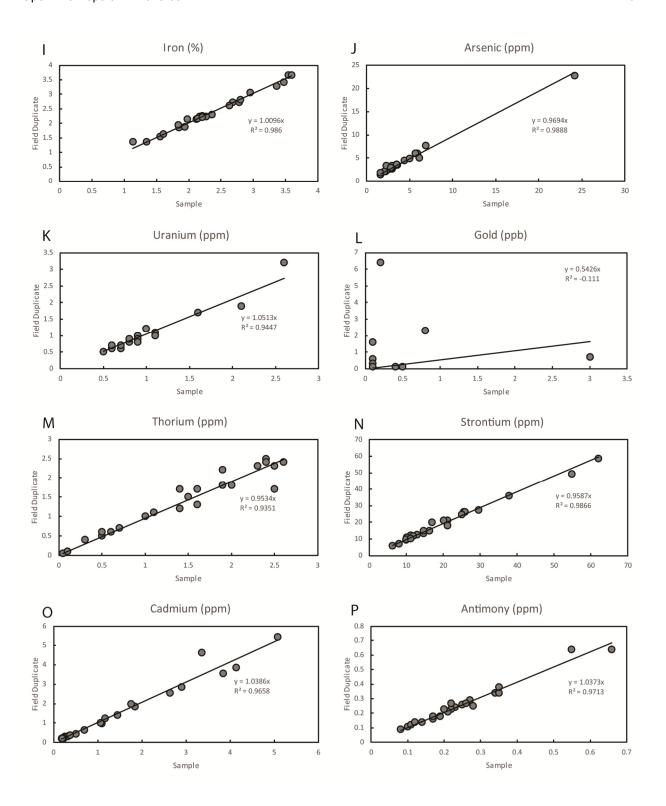
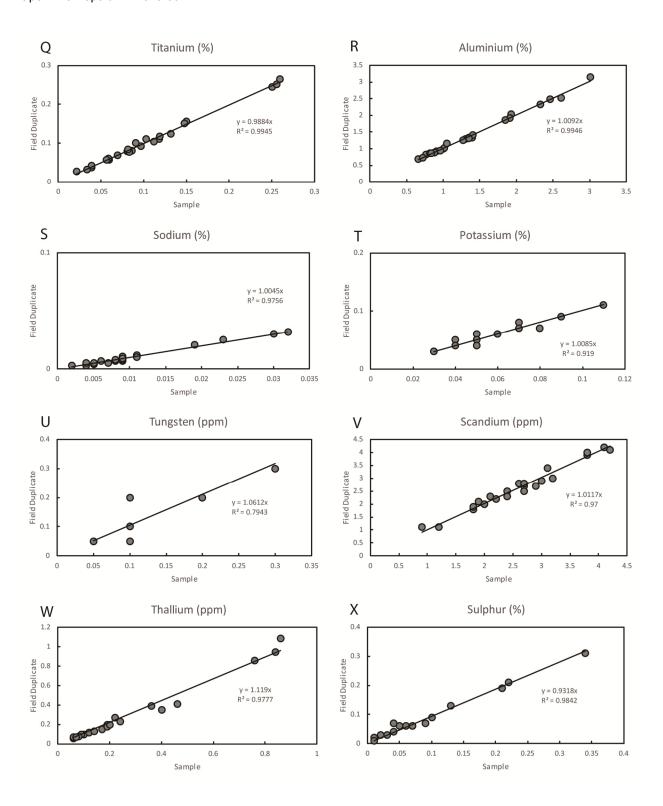
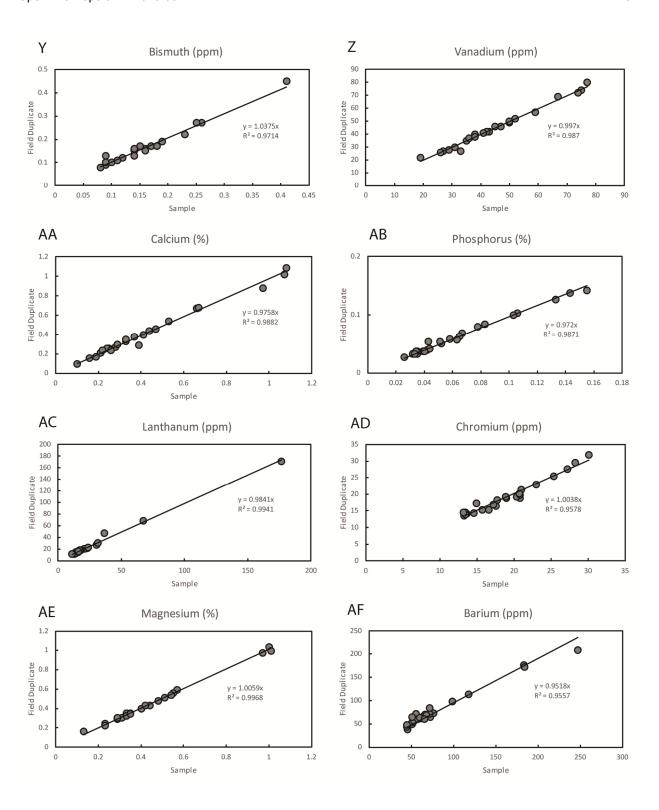


Figure C3. Field Duplicate cross-plots for samples analyzed by aqua regia ICP-MS. Most elements show excellent reproducibility except those subject to a strong nugget effect (e.g. gold) or those with a low number of detections (e.g. tungsten). On all plots, the original sample is plotted on the x-axis, and the duplicate on the y-axis. (A) Molybdenum, (B) copper, (C) lead, (D) zinc, (E) silver, (F) nickel, (G) cobalt, (H) manganese, (I) iron, (J) arsenic, (K) uranium, (L) gold, (M) thorium, (N) strontium, (O) cadmium, (P) antimony, (Q) titanium, (R) aluminium, (S) sodium, (T) potassium, (U) tungsten, (V) scandium, (W) thallium, (X) sulphur, (Y) bismuth, (Z) vanadium, (AA) calcium, (AB) phosphorus, (AC) lanthanum, (AD) chromium, (AE) magnesium, (AF) barium, (AG) mercury, (AH) selenium, (AI) tellurium, (AJ) gallium.









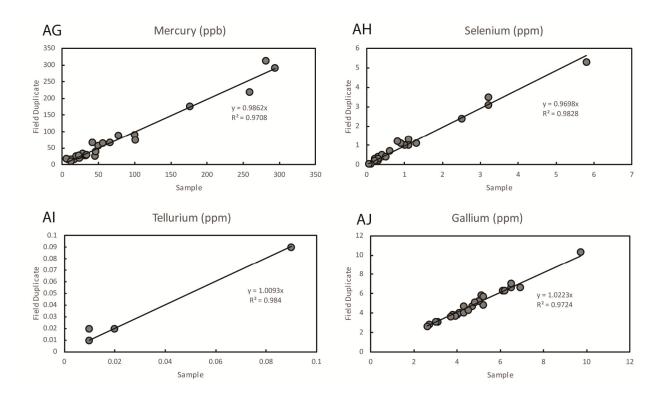
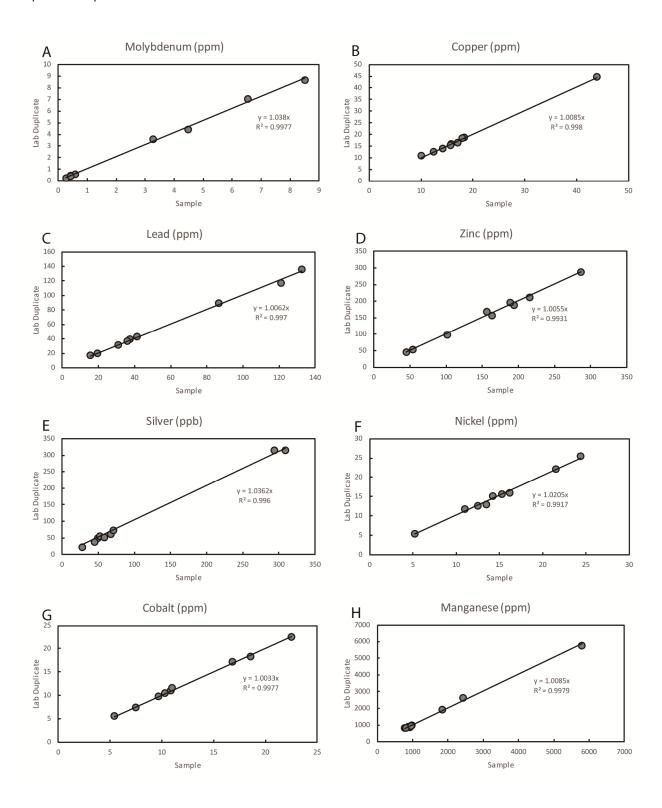
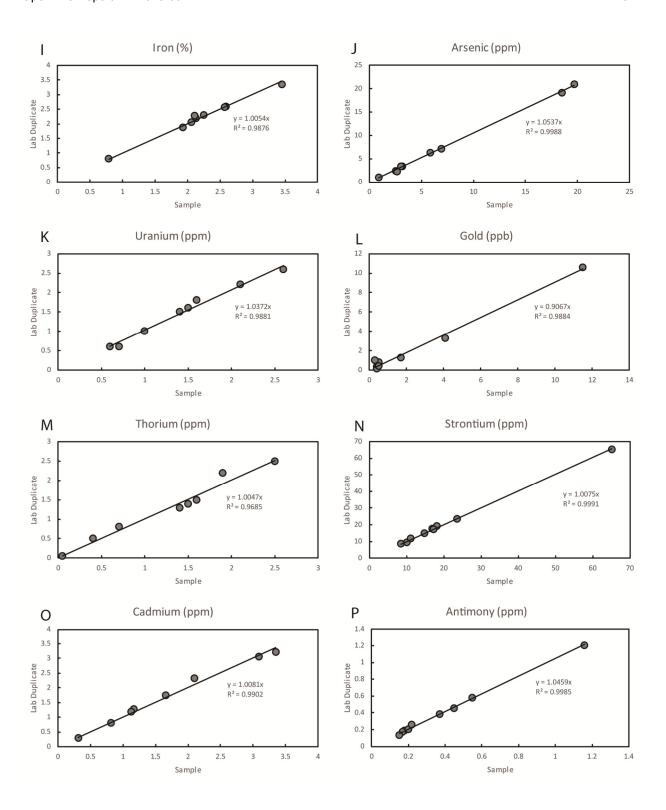
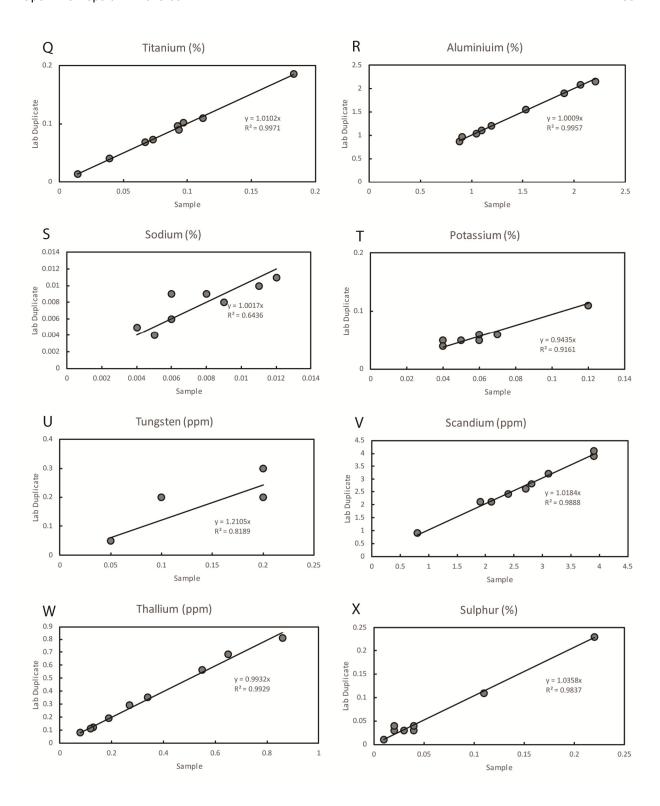
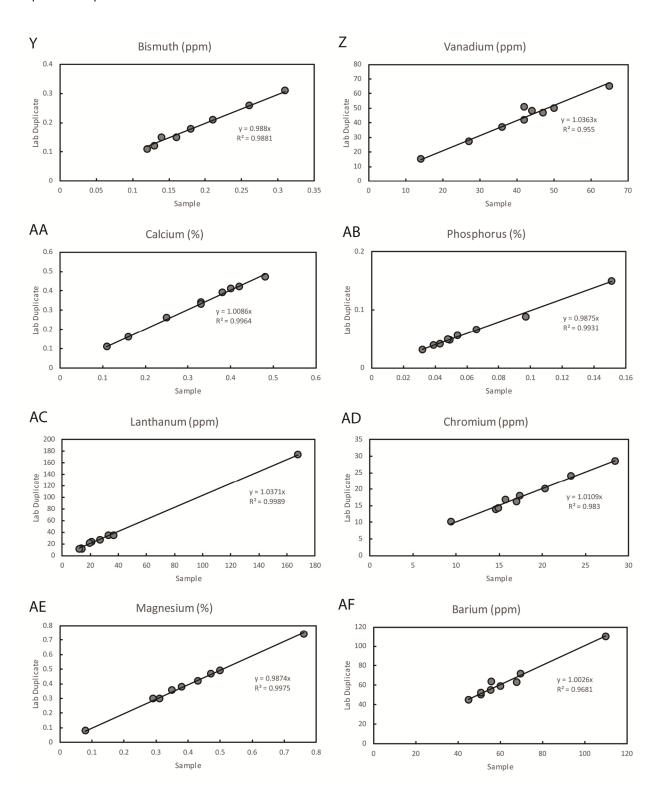


Figure C4. Lab Duplicate cross-plots for samples analyzed by aqua regia ICP-MS. These duplicate pairs are separate aliquots of randomly selected samples chosen by the lab. Almost all elements showed excellent reproducibility. On all plots, the original sample is plotted on the x-axis and the duplicate on the y-axis. (A) Molybdenum, (B) copper, (C) lead, (D) zinc, (E) silver, (F) nickel, (G) cobalt, (H) manganese, (I) iron, (J) arsenic, (K) uranium, (L) gold, (M) thorium, (N) strontium, (O) cadmium, (P) antimony, (Q) titanium, (R) aluminium, (S) sodium, (T) potassium, (U) tungsten, (V) scandium, (W) thallium, (X) sulphur, (Y) bismuth, (Z) vanadium, (AA) calcium, (AB) phosphorus, (AC) lanthanum, (AD) chromium, (AE) magnesium, (AF) barium, (AG) mercury, (AH) selenium, (AI) tellurium, (AJ) Gallium.









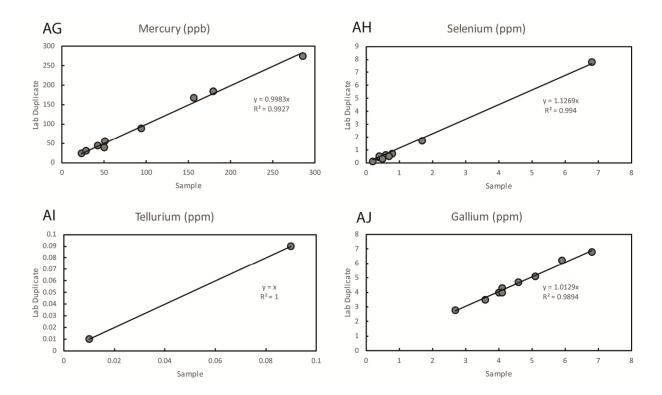


Figure C5. Cross-plots comparing the pXRF results with aqua regia ICP-MS analyses, when possible. Reproducibility of pXRF results by ICP-MS depends heavily on how readily the element in question digests in aqua regia, as many elements that occur in silicate or refractory mineral phases do not easily digest. However, most chalcophile elements (e.g. arsenic, the base metals, etc.) compare very favourably between the two methods, although not necessarily at a 1:1 relationship. On all plots the pXRF data are on the x-axis and the aqua regia ICP-MS data are on the y-axis. (A) Sulphur, (B) calcium, (C) potassium, (D) titanium, (E) vanadium, (F) chromium, (G) manganese, (H) iron, (I) nickel, (J) copper, (K) zinc, (L) arsenic, (M) selenium, (N) strontium, (O) molybdenum, (P) cadmium, (Q) antimony, (R) barium, (S) lead, (T) thorium, (U) uranium.

