

Geochemical Survey Assessment Report: Reverse Circulation (RC) Drill survey

RUDE CREEK GOLD PROJECT

Claims in grouping number HW07561:

Royal 1-12	YC60328-39
ANN 1-32	YD109321-52
ANN 41-72	YD109361-92
ANN 81-107	YD109401-27
ANN 120-140	YD109440-60
ANN 187-190	YD109507-10
ANN 192	YD109512
Poker 1-16	YD19001-16
Poker 21-39	YD19021-39
Poker 40-56	YD18940-56
Poker 65 - 68	YD18965-68
Poker 70 - 77	YD18970-77
Poker 79 - 89	YD18979-89

WHITEHORSE Mining District

NTS: 115J/10

Latitude: 62.666° N Longitude: -138.576 ° W

RC Drilling Performed On: September 8,9 and 10, 2017

Prepared for 0890763 BC Ltd.

By Adam Fage

adamfage@gmail.com

Written by: Adam Fage January 5, 2018

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1 Introduction

0890763 BC Ltd. commissioned Midnight Sun Drilling Inc. (“Midnight Sun”) of Whitehorse, Yukon to perform a Reverse Circulation (RC) Drill program on their Rude Creek Gold Property (the “Property”). The Property is located in Yukon’s White Gold belt, approximately 100 km west of Pelly Crossing, YT, and 25 km south of, and on structural trend with, Goldcorp’s Coffee Project, in the Whitehorse Mining District on NTS Map Sheet 115J/10 (Figures 1, 2). The approximate center of the property is 62.666° N Lat, -138.576 ° W Long.

Three RC drill holes (totaling 307.85m) were drilled on the property. The drill hole tested targets defined by soil geochemical anomalies with supporting Magnetic and Resistivity/IP data and following up on 2015/2016 RAB drilling.

Results and interpretation of these surveys form the basis of this report.

2 Property Description

The Rude Creek Gold Property is located in the central-western part of Yukon, approximately 100km west of Pelly Crossing, 135km northwest of Carmacks and 160km south of Dawson City (Figure 1). The center of the property is located at Latitude 62.666° N and Longitude -138.576 ° W.

The property is located in an unglaciated region of the Dawson Range. Elevations range from 760m to 1430m. Vegetation is typical of the Boreal forest, with mixed white and black spruce forests in valley bottoms, stunted black spruce and moss matt forests underlain by permafrost on north facing slopes and as elevation increases, transitioning into moss, talus and felsenmeer with increasing elevation. Tors are common on ridgetops in the area. The typical climate of the area is moderate precipitation, warm summers, and cold winters.

Access to the property is by helicopter from Dawson or Carmacks, or by fixed wing to the Rude Creek Airstrip, on claim: POKER 56. There are local roads located on the property, including a winter road to the Sonora Gulch Property last used in 2010 by Western Copper.

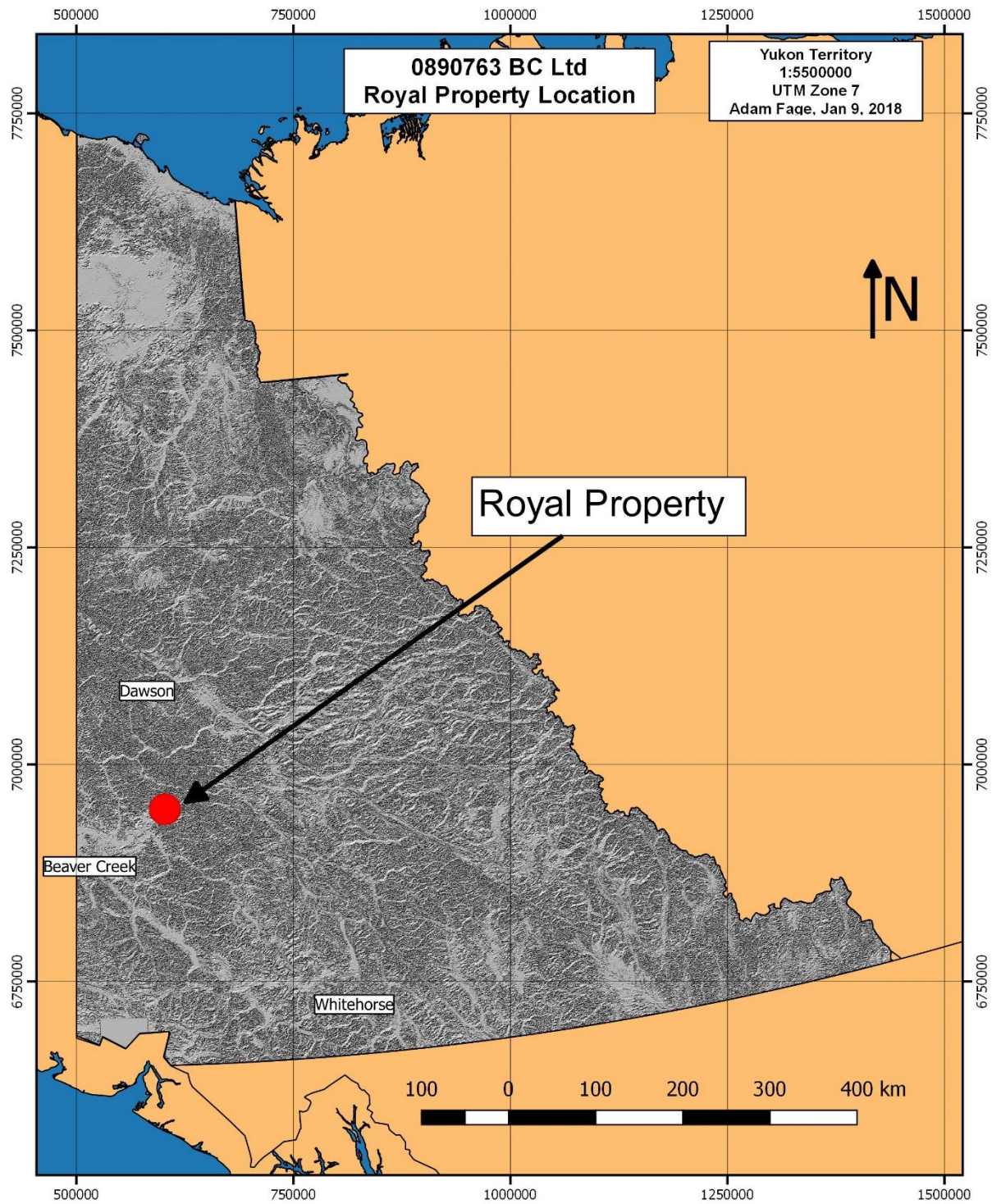


Figure 1: Location of the Rude Creek property, Yukon, Canada

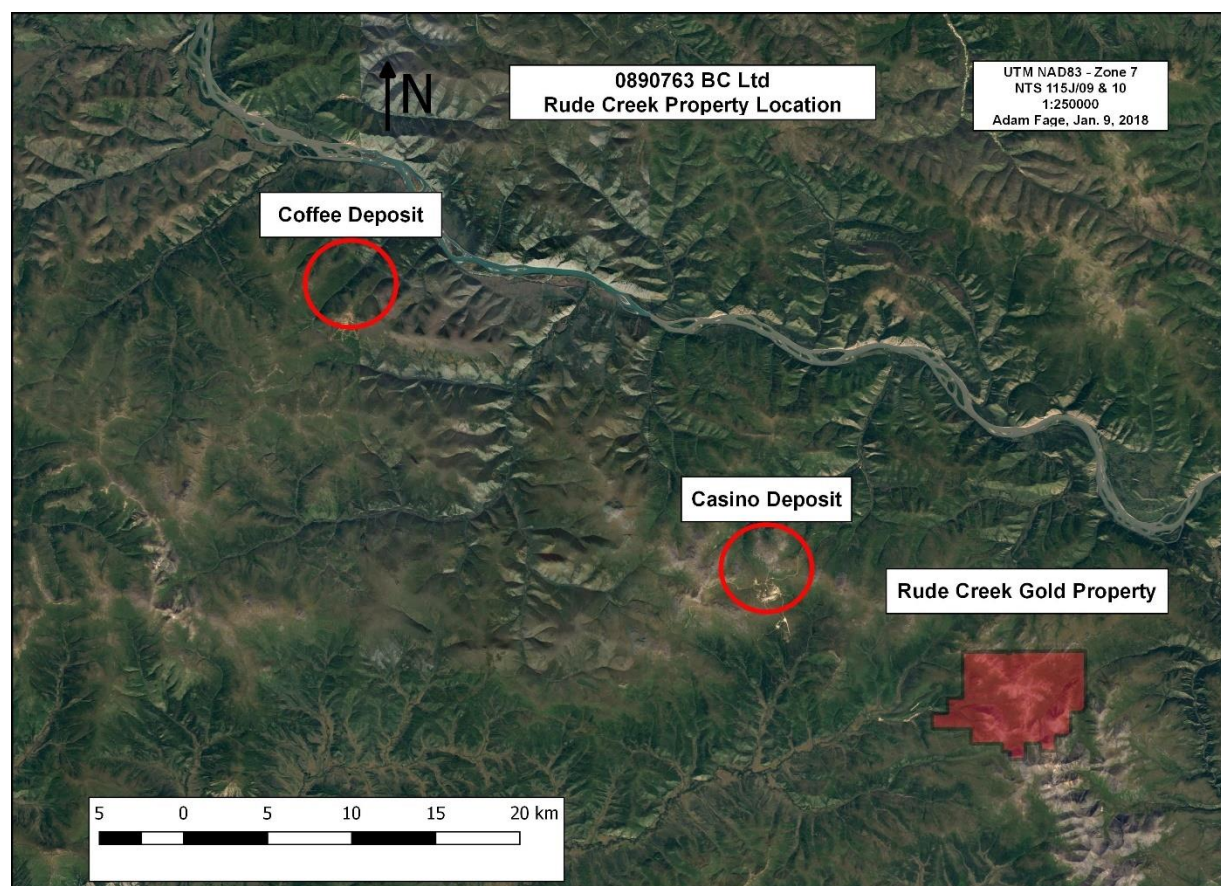


Figure 2: Location of the Rude Creek property in relation to nearby deposits

3 Claim Information

The Rude Creek Gold Project is registered in the Whitehorse Mining district on mapsheet 115J/10. (Figure 3, Appendix D) It encompasses 4157 hectares and is composed of the following 204 claims in grouping number HW07561:

Claim name	Grant Number	Owner	Operator
Royal 1-12	YC60328-39	Shawn Ryan - 70%, Wildwood Explorations Inc. - 30%	0890763 BC Ltd
ANN 1-32	YD109321-52	0890763 BC Ltd – 100%	0890763 BC Ltd
ANN 41-72	YD109361-92	0890763 BC Ltd – 100%	0890763 BC Ltd
ANN 81-107	YD109401-27	0890763 BC Ltd – 100%	0890763 BC Ltd
ANN 120-140	YD109440-60	0890763 BC Ltd – 100%	0890763 BC Ltd
ANN 187-190	YD109507-10	0890763 BC Ltd – 100%	0890763 BC Ltd
ANN 192	YD109512	0890763 BC Ltd – 100%	0890763 BC Ltd
Poker 1-16	YD19001-16	Farrell J. Andersen - 100%	0890763 BC Ltd
Poker 21-39	YD19021-39	Farrell J. Andersen - 100%	0890763 BC Ltd
Poker 40-56	YD18940-56	Farrell J. Andersen - 100%	0890763 BC Ltd
Poker 65 - 68	YD18965-68	Farrell J. Andersen - 100%	0890763 BC Ltd
Poker 70 - 77	YD18970-77	Farrell J. Andersen - 100%	0890763 BC Ltd

Key attributes identified at Rude Creek by Prime Properties in 1999 were as follows:

- G.S.C. silt geochemistry strongly anomalous in Au (300 ppb), As (44 ppm), W (50 ppm) and Sb (5.2 ppm), moderately anomalous Mo and weakly anomalous Sn (Bi, Te not available in database). Reported occurrence of bismuth (Bi) and scheelite (calcium tungstate) in the placers. Quartz vein occurrences in the area.
- Mid Cretaceous intrusives, with coincident magnetic high anomalies and felsic composition, regionally intruding schist and gneiss of the Yukon Tanana Terrane.
- Spatial association with northwesterly and north-easterly trending structures.
- A long history of placer mining.

After the initial field season in 1999 (by optionee Prospector International), the six target areas were filtered down to two key properties: Rude Creek and Coffee Creek. In 2000, follow-up work consisting of grid soil sampling successfully identified strong anomalies on both properties. At Coffee Creek, further work by Shawn Ryan at led to Kaminak optioning the ground and discovering a large scale gold system (currently totalling 2.8moz grading 1.43 g/t in Indicated and 1.6moz grading 1.17 g/t in Inferred, including a 2P reserve totalling 2.16moz grading 1.45 g/t).

At Rude Creek, the 1999 and 2000 field programs identified an east-west trending, 150-metre by 550-metre Au-in-soil anomaly, defined by the 90th percentile value of 38 ppb Au. Gold values reached up to 1254 ppb and 331 ppb Au and were coincident with Bi (up to 39.35 ppm), As (up to 157 ppm) and Ag (up to 3071 ppb). The anomaly remains open to the east and west and is underlain by locally tourmaline-bearing, rusty, silicified, potassically-altered and chloritized biotite-hornblende granodiorite.

The following is a summary of work to date on the Royal 1-12 claims (the key part of our Rude Creek project; covered by the 'EIO' claims in 1999/2000):

- 1999: 4 mandays including 16 reconnaissance soil samples, 2 rock chip samples, 1 float sample and several hand-samples (see compilation map in Exhibit 18);
- 2000: 1 silt sample, and 75 grid soil samples collected at 50m spacings along lines 100m apart (see compilation maps in Exhibits 19-22);

- 2004/2005: Prime Property's EIO claims expired; Shawn Ryan stakes the area thereafter as the Royal 1-12 claims;
- 2007: Shawn Ryan conducted a one-day reconnaissance soil line (see Exhibit 13);
- 2011: Ethos Exploration optioned the ground from Shawn and subsequently conducted a reconnaissance soil line; the limited level of work was likely related to the small size of the property position (see Exhibit 13).

In 2010, Bart Jaworski staked the remainder of the Rude Creek area with partners from Raymond James, via a new private company (0890763 B.C. Ltd.) and proceeded to stake the ANN 1-316 claims. The claims were optioned to Silver Quest Resources Ltd. (SQI-V) who conducted the following work program in 2011 (covering ANN 1-316, various Poker claims, various BC claims and KC1-12 claims):

- Airborne magnetic and radiometric geophysical survey (1351 line km), totalling approximately \$140k; the work confirmed there was a large (roughly 10km x 10km mag-high anomaly centred around the headwaters of Rude Creek
- Reconnaissance soil sampling (321 samples; B horizon); results identified a roughly 2km x 3km area of strong (>98%ile) anomalism located in the NE portion of the ANN 1-316 claim block (immediately north of the headwaters of Rude Creek). Anomalous elements included Au-Bi-As-W-Sn. The highest gold-in-soil sample totalled 87ppb (versus 98%ile for gold was 18.6ppb)."

The 2014 work program consisted of a soil sampling component and a resistivity/IP component primarily over the Trombley anomaly. 172 soil samples were collected on the property on 31 July, 2014. These samples were designed to validate and infill previous geochemical surveys, as well as provide support for interpretation of the Resistivity/IP profiles.

A grid of six Resistivity/IP profiles was surveyed over the geochemical anomaly on 25-28 August, 2014. The purpose of the IP survey is to define the underlying geological structure and horizontal extent of mineralized zone, in order to produce drilling targets for follow up work.

In 2015, a 166 soil sample program was designed to extend the Trombley soil grid to the west in order to cover geochemical and geophysical targets identified in previous

years and to infill previous recce soil lines in the North-East anomaly of the property. This program identified the NE zone which has been gridded over in 2016.

Two RAB drill holes were drilled on the Trombley anomaly in 2015, totaling 426 ft. The drill holes tested targets defined by soil geochemical anomalies with supporting Magnetic and Resistivity/IP data. No significant anomalous gold mineralization was encountered in either of the RAB holes, in large part reflecting reliance on historic soil sample locations which could not be verified with a high degree of accuracy.

In 2016, 158 grid soil samples were collected which delineated a 600m long and 300-400m wide gold in soil anomaly (the NE anomaly), located approximately 2km north-east of Tromblay (see Figure 3a). One RAB hole was drilled on the Tromblay anomaly in 2016 which encountered weak gold mineralization (0.2 g/t over 7.6m) hosted within sericite altered, pyrite and limonite bearing granodiorite. An XCAM ortho-image survey was also flown over the entire property.

In general, a review of the historic data collected thus far indicates a new, strong intrusive-related gold target on trend and proximal to the Coffee Creek deposit, White Gold area, Yukon.

The following evidence, in combination with soil anomalies on the NE part of the property, strongly suggests that this area is the source of the productive Rude Creek placers:

- Identifying a strong gold-in-soil anomaly trending in a NW-SE direction and open along strike in both directions.
- Identifying a major NW-SE structural trend corroborated with the geophysics and geochemistry.
- Refining geological mapping/interpretation on the property scale using RES/IP. Specifically: indicating the presence of a younger silicified “plug” of Upper Cretaceous quartz monzonite to dacite porphyry.
- Refining/identifying drill targets by relating gold-in-soil anomaly with subsurface imaging of structural features using the resistivity/IP survey.

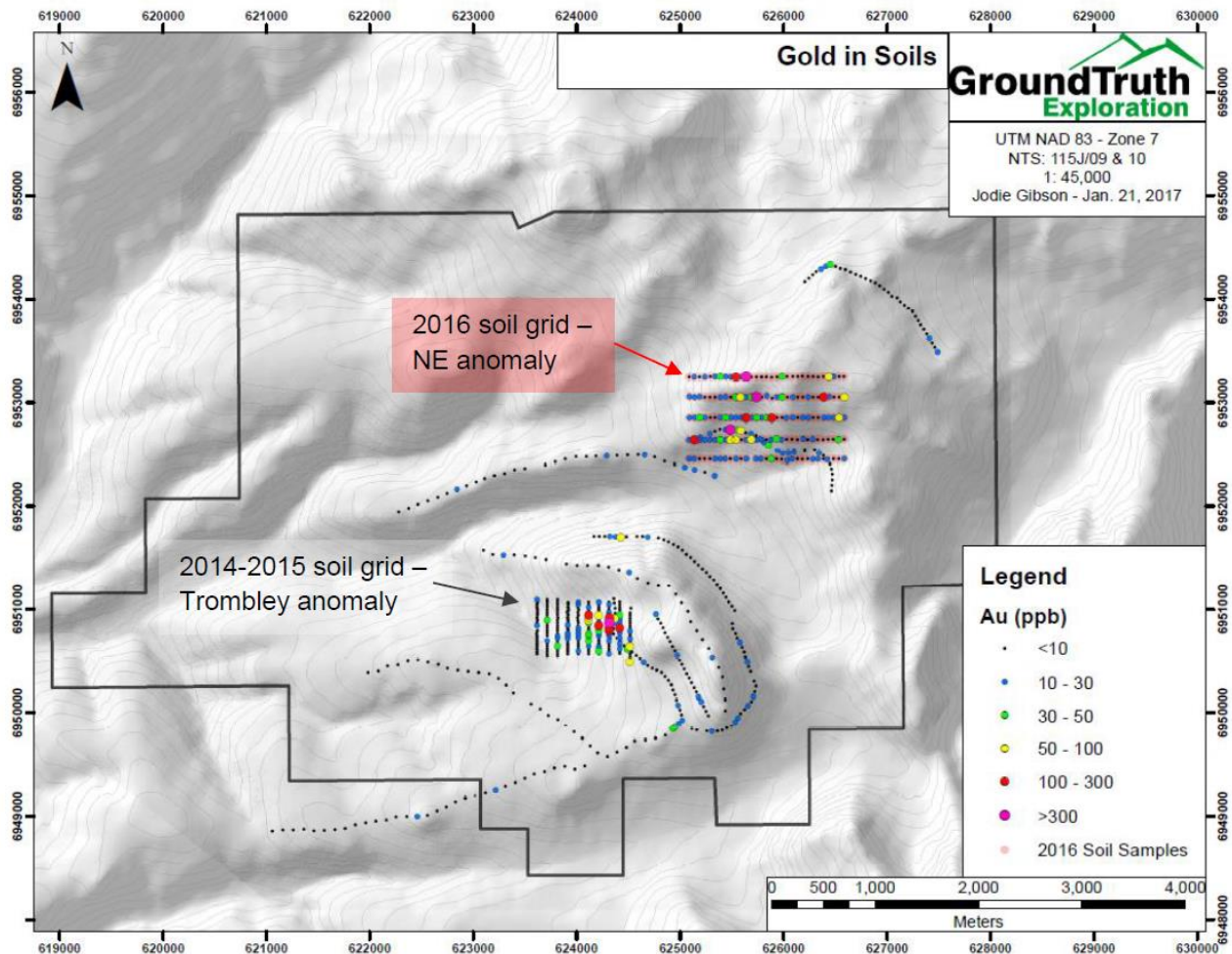


Figure 4: Gold-in-soil sampling at the Rude Creek property

4.1 Geological Interpretation

The most recent (2011) geological mapping done in the area shows the presence of an Upper Cretaceous quartz monzonite to dacite porphyry plug at the headwaters of Rude and Trombley Creeks. A secondary smaller plug not shown in the geological mapping may be present in the western portion of the 2014 RES/IP grid. This silicified plug is indicated by a circular resistivity high feature.

4.2. Soil geochemistry at Trombley Anomaly

As stated above, the Trombley anomaly was first identified in 1999 and 2000 as an east-west trending, 150-metre by 550-metre Au-in-soil anomaly, defined by the 90th percentile value of 38 ppb Au. Gold values reached up to 1254 ppb and 331 ppb Au and

were coincident with Bi (up to 39.35 ppm), As (up to 157 ppm) and Ag (up to 3071 ppb). In 2014 and 2015, the area was re-sampled with better location control and orientation relative to the slope. The re-sampling confirmed the tenor of the overall gold anomaly and its strong correlation primarily with arsenic and bismuth (see Figure 4, 5 and 6, below).

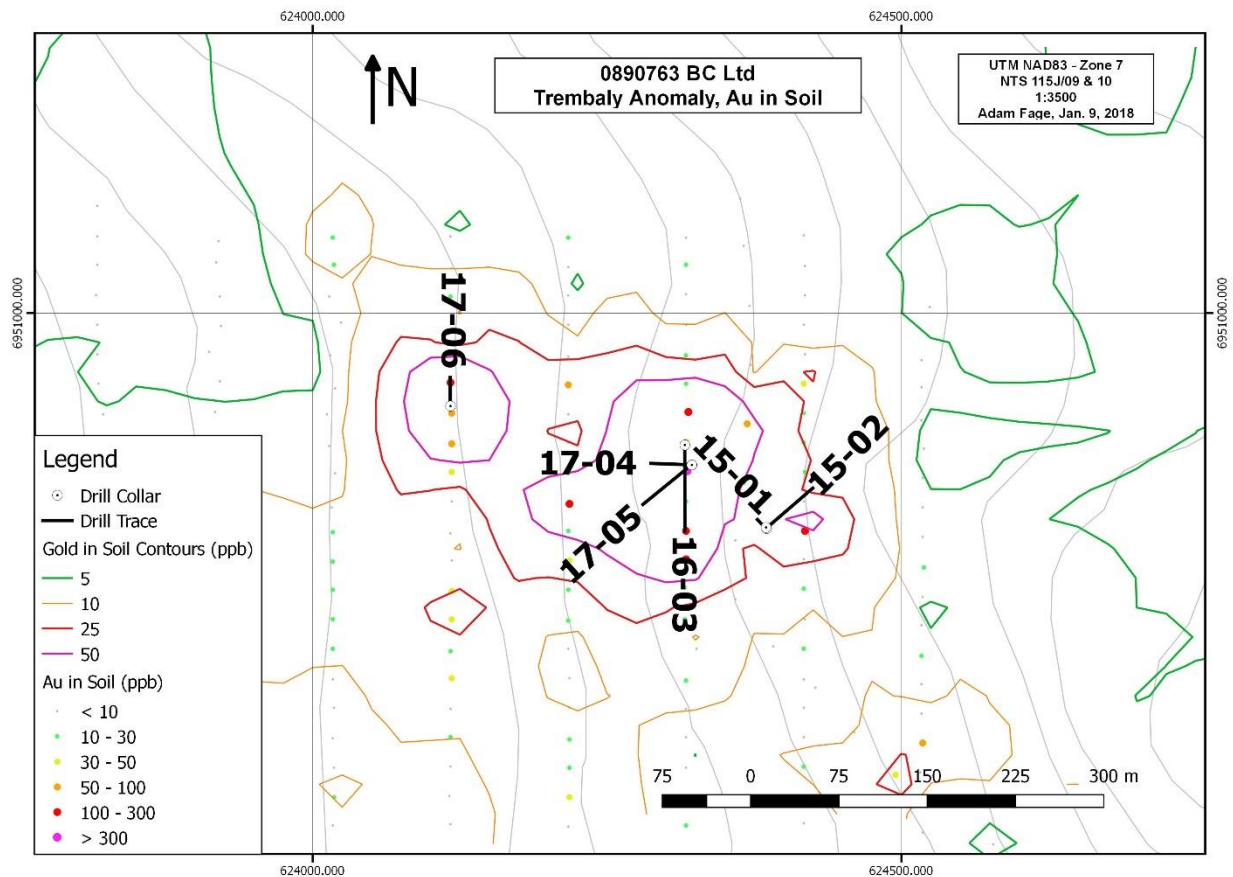


Figure 5: Gold-in-soil contours and drilling at Trombly anomaly

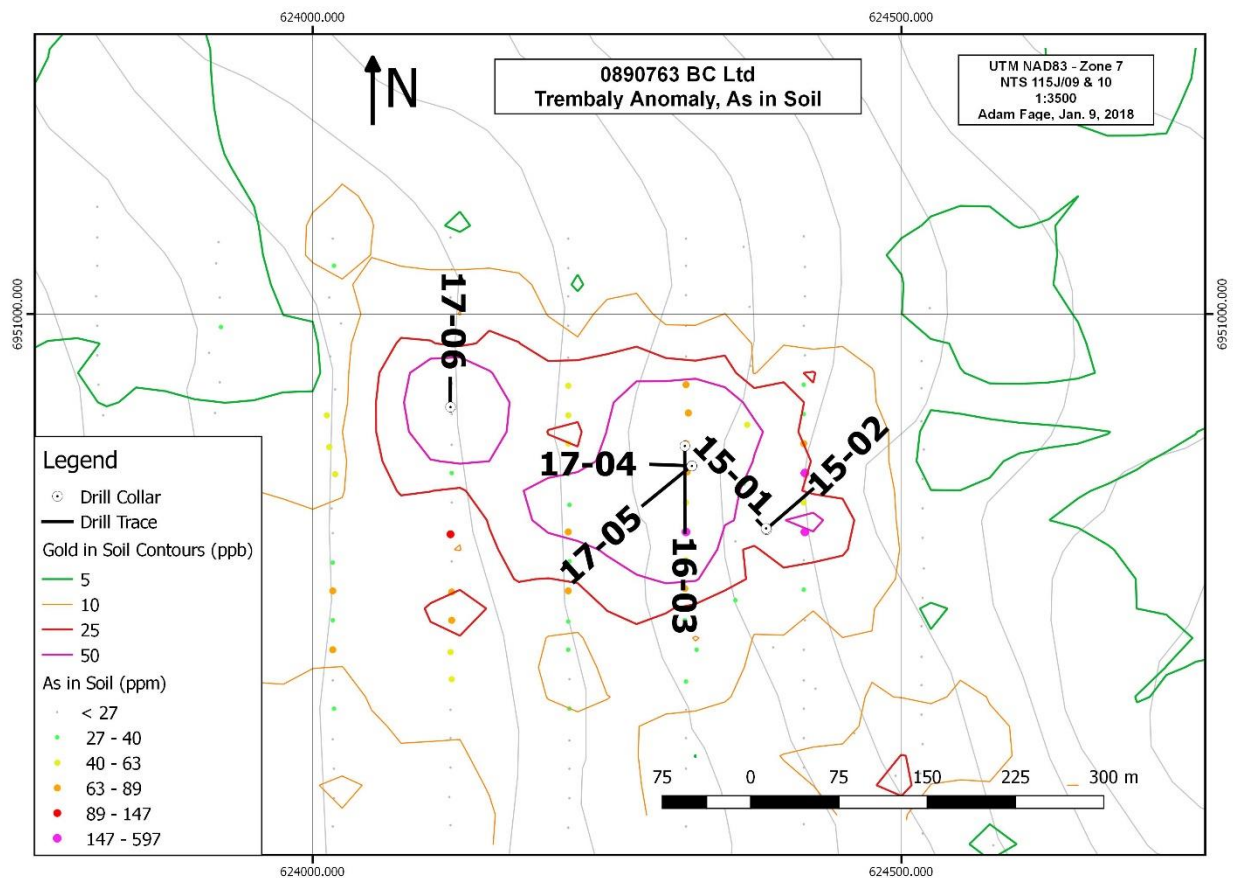


Figure 6: Arsenic-in-soil geochemistry and drilling at Trombely anomaly

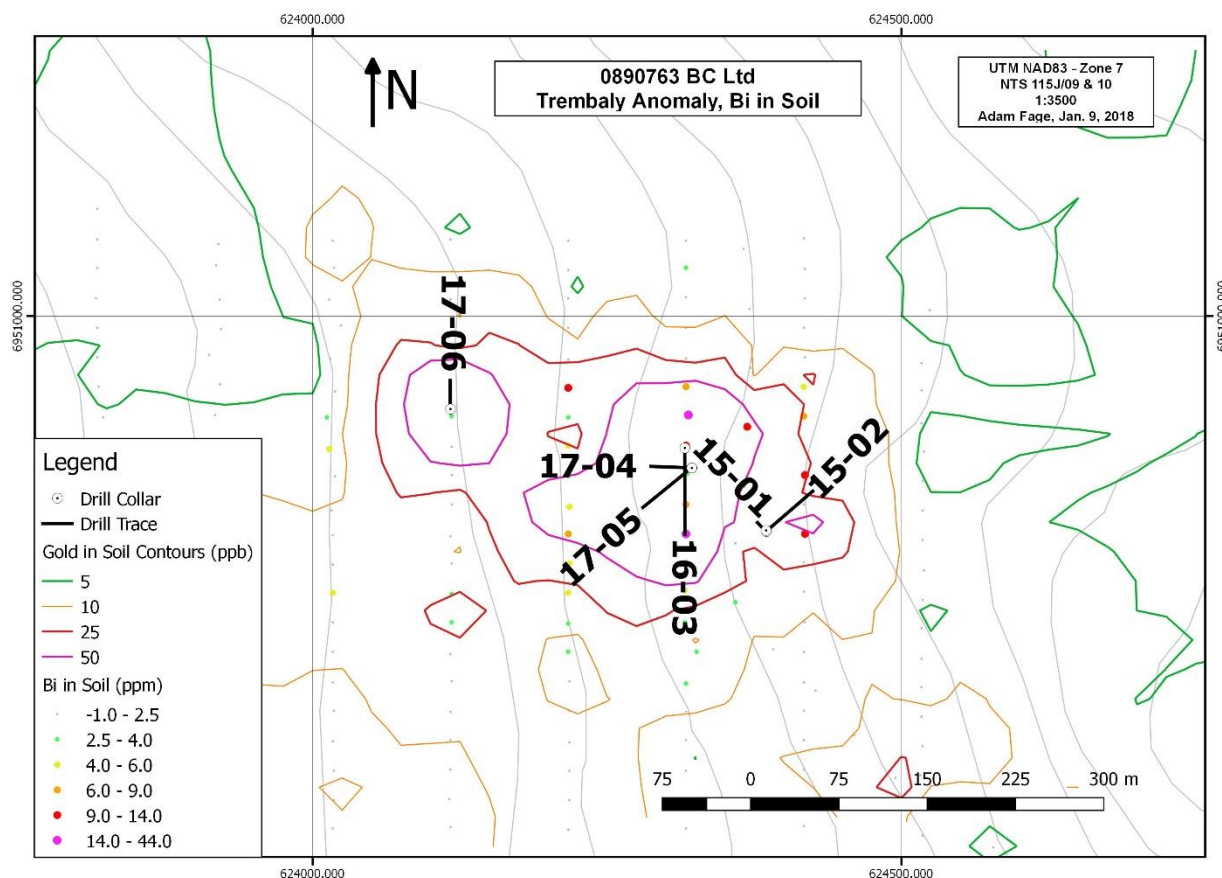


Figure 7: Bismuth-in-soil geochemistry and drilling at Trembaly anomaly

4.2 Subsurface Structural Features

The resistivity inversions show a large near vertical res high anomaly trending NW-SE, with the highest values centered over lines 02 and 03 (Figures 7-10). Line ROYIP14-02 shows a prominent vertical resistivity low structure (between 200 and 240m) corresponding with a bordering IP high. This would make an ideal target for follow up drill work.

The IP inversions also show a general NW-SE trending zone of chargeability characterized by a broad zone of high chargeability in the West, branching into two smaller lineaments to the East (Figures 7-10).

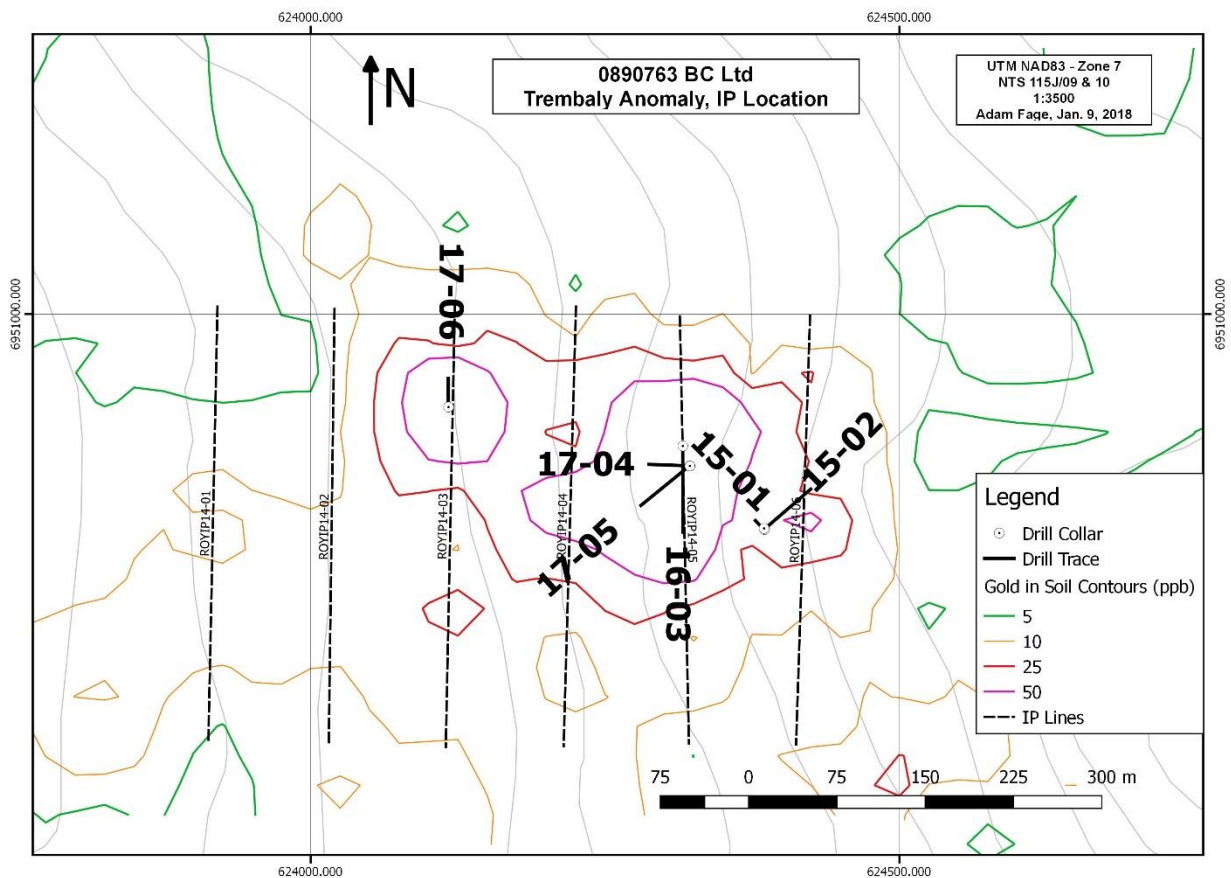


Figure 8: Location of IP Lines

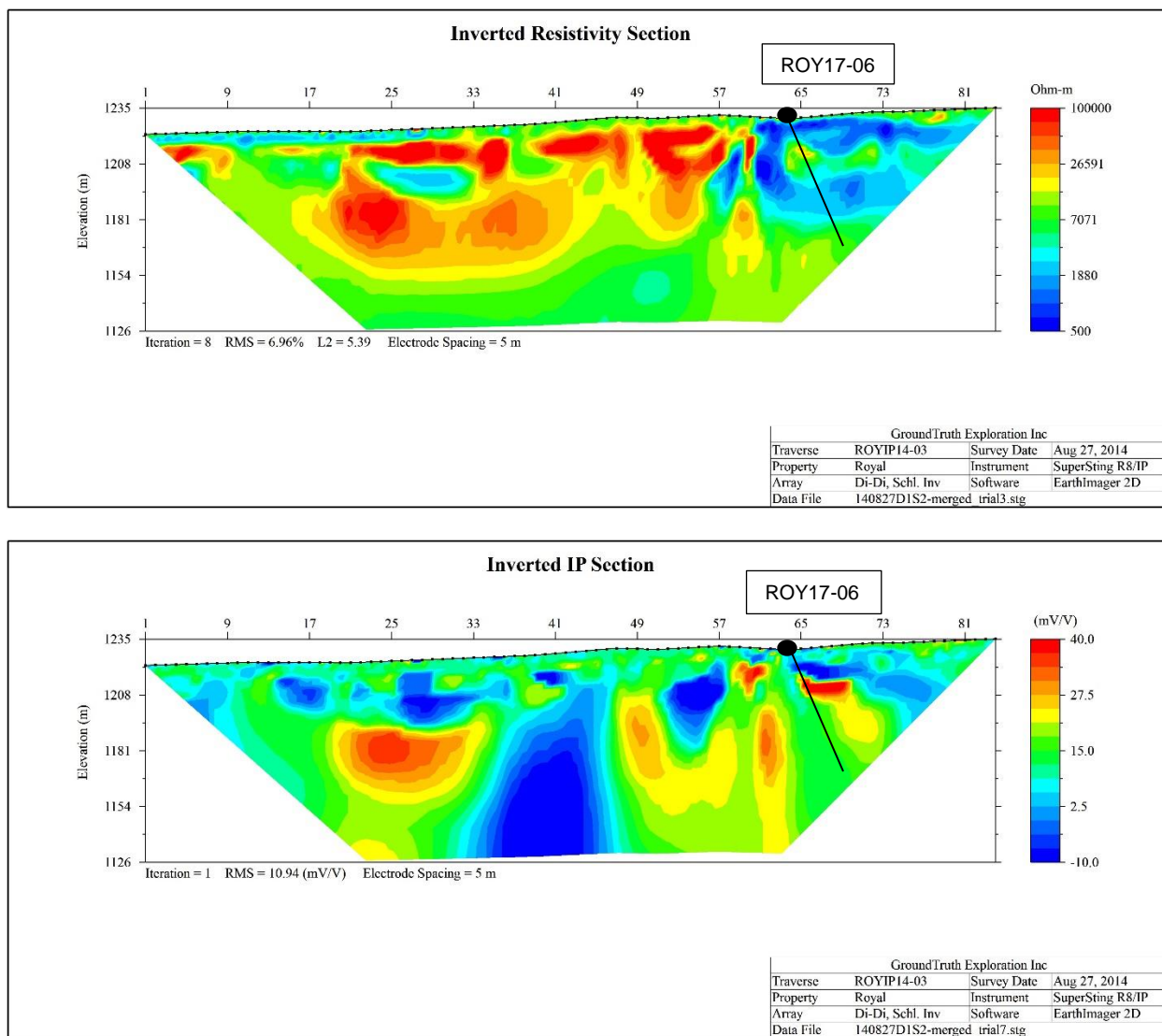


Figure 9: Resistivity and IP Sections for ROYIP14-03, including drill location for ROYRC17-06.

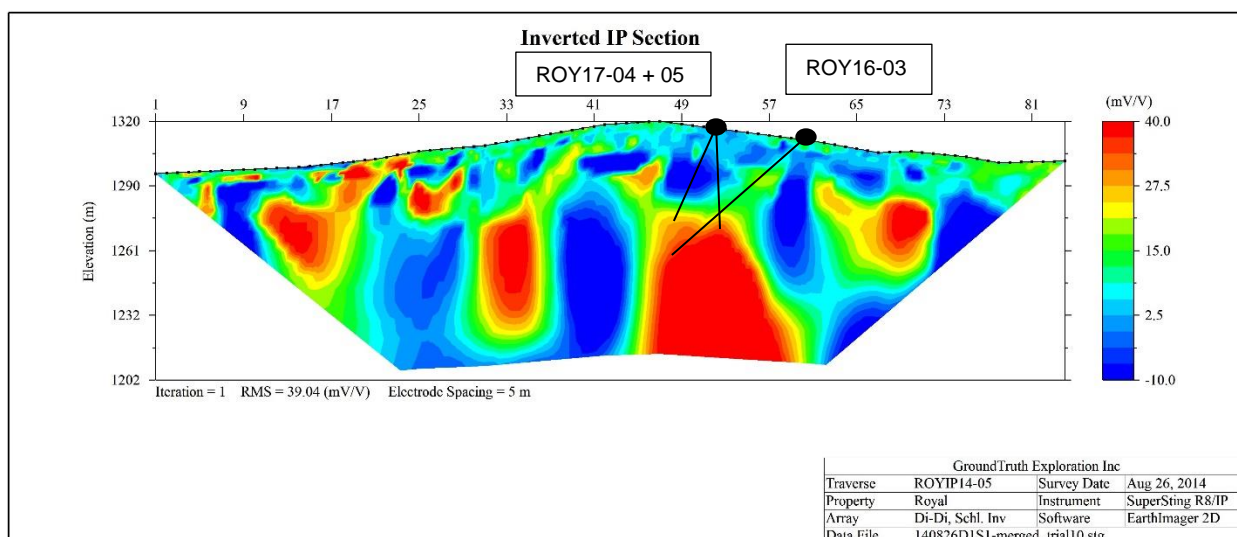
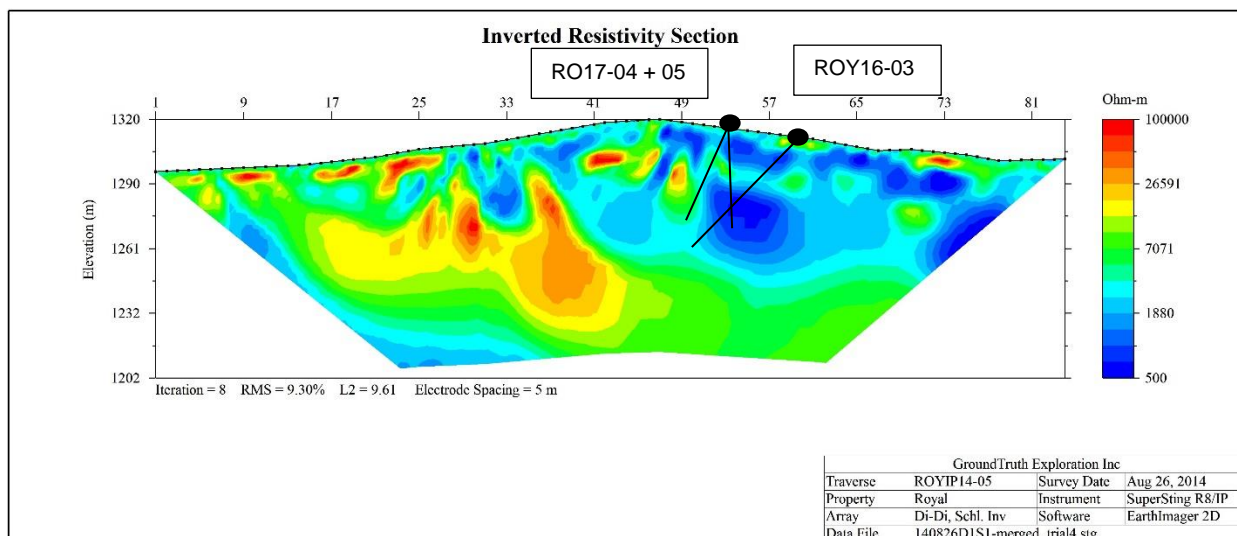


Figure 10: Resistivity and IP Sections for ROYIP14-05, including drill location for ROYRC17-04 and ROYRC17-05.

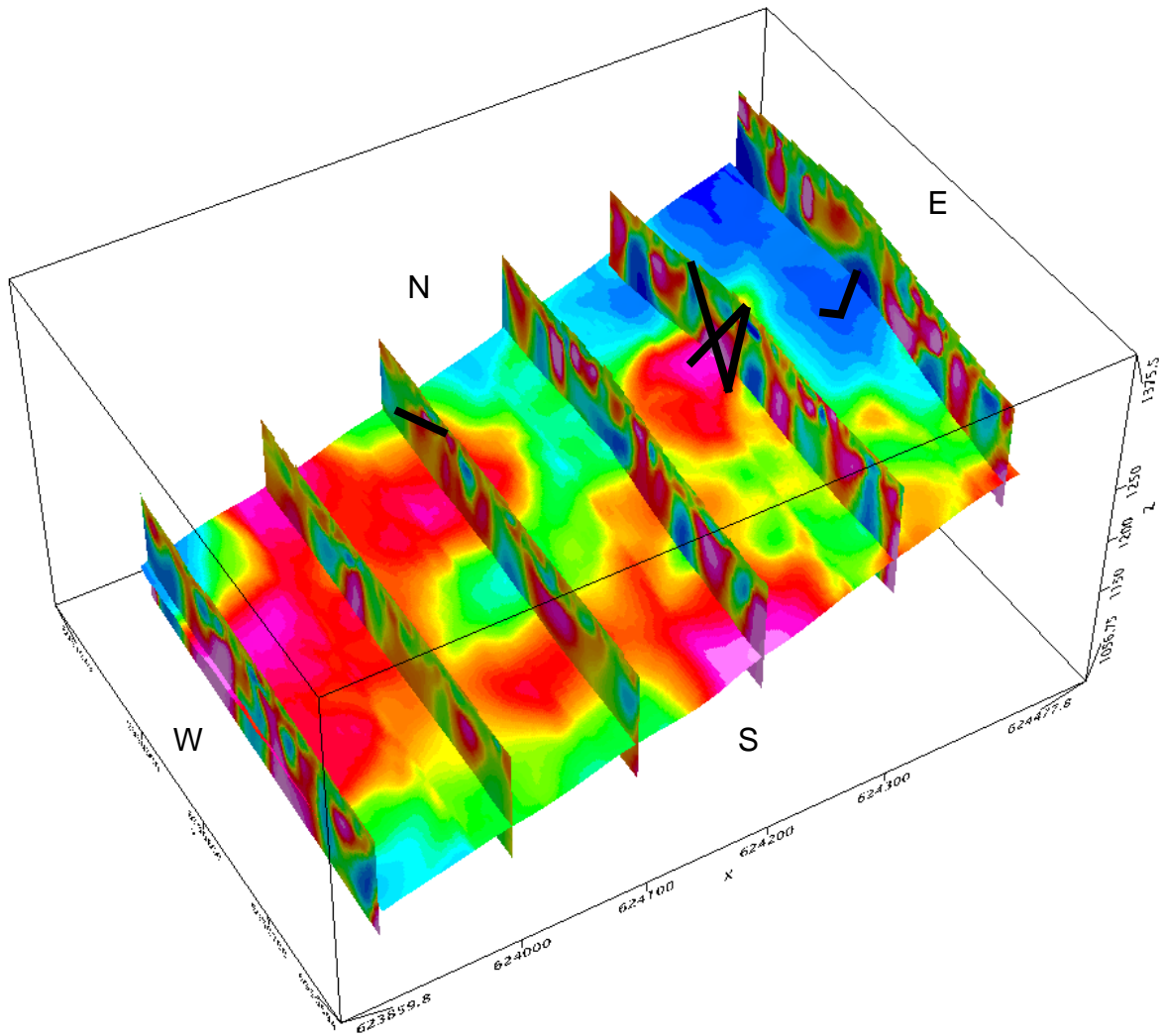


Figure 11: Induced polarization plan (70m depth) and profiles in 3D (and approximately trace of drilling) at Trombley anomaly

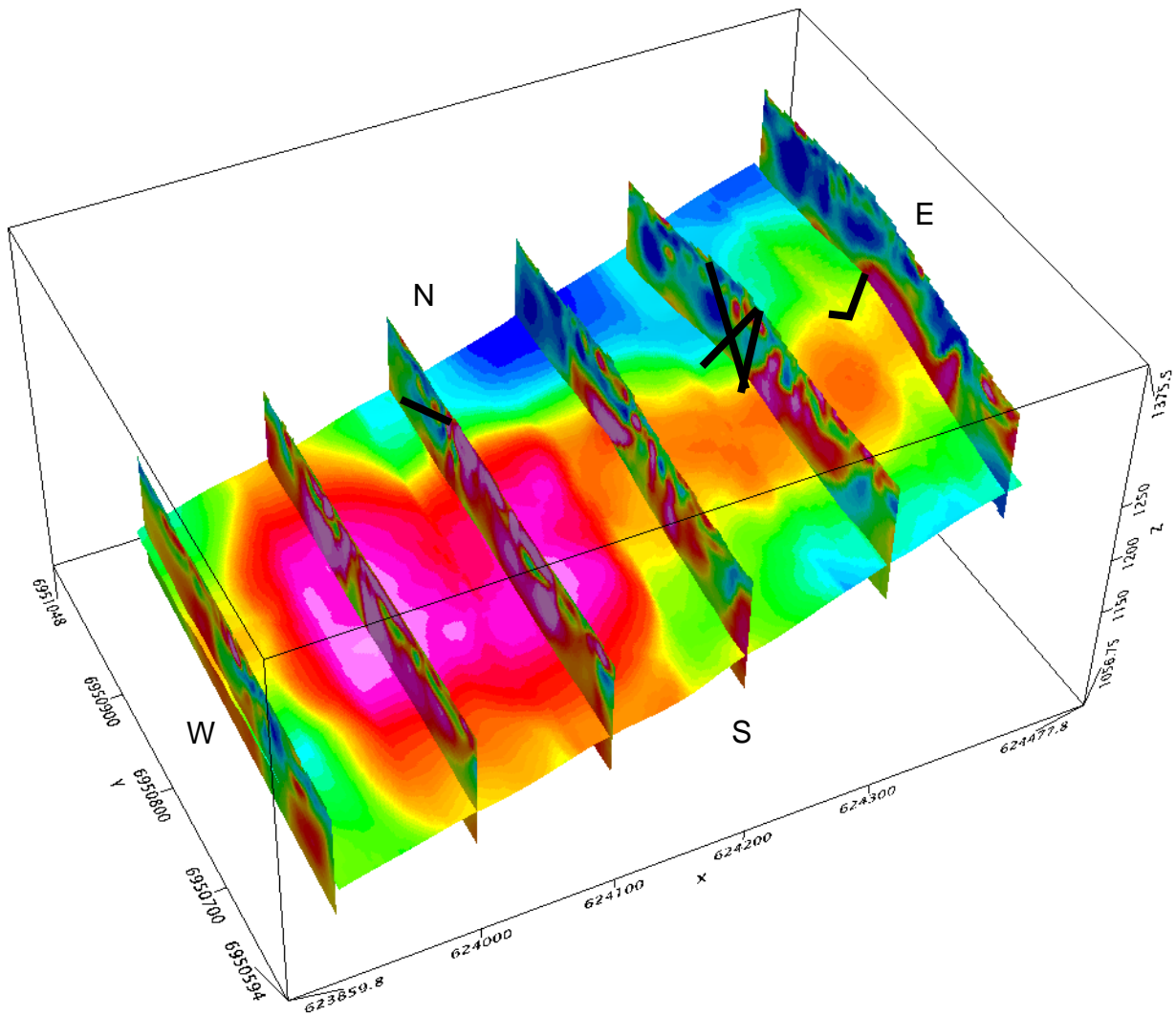


Figure 12: Resistivity plan (70m depth) and profiles (and approximate trace of drill holes) in 3D at Trombley anomaly

5 Geology

5.1 Regional Geology

The Project area occurs within the Yukon Tanana Terrane, which underlies much of the central and western Yukon and east central Alaska. The property area itself is mapped as Middle to Late Cretaceous calc-alkaline I-type quartz monzonite and hornblende granodiorite (Gordey et al, 2003). The major structure mapped in the area is the NW-SE trending strike-slip Dip Creek Fault.

The Rude Creek area (dotted circle, Figure 12) is drained by a historical and currently producing placer creek, and underlain by mid-cretaceous granodiorites. The Casino copper-molybdenum porphyry deposit borders it to the north-west, and the Mount Cockfield “failed porphyry” system borders it to the south-east. The occurrence of the Casino and Mount Cockfield porphyry systems indicate the presence of deep structural breaks in the region. The NE/SW trending regional structure separating the Rude Creek area from the Casino area may be a result of long-term magmatic activity in the area. The Rude Creek area is also along trend from the Coffee Creek gold deposit.

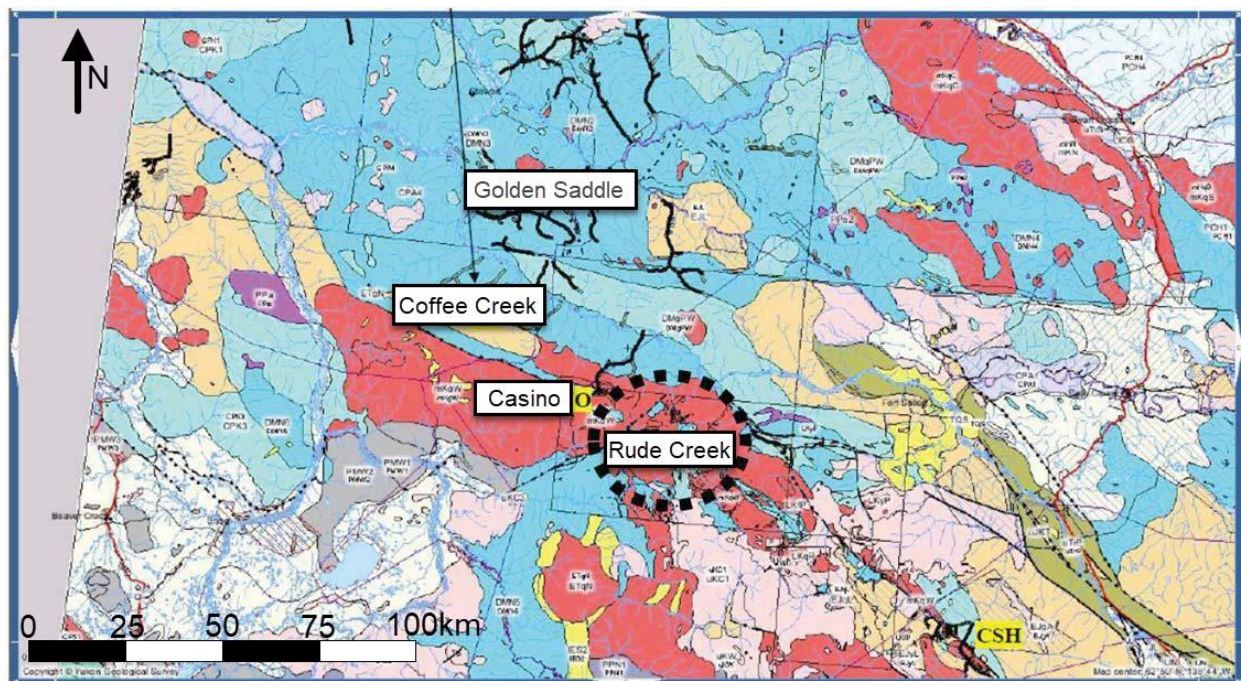


Figure 13: Regional Geology with placer occurrences

Note: placer creeks in bold; Source: Yukon Geological Survey; Bart Jaworski

5.2 Property Geology

Geology on a property scale consists almost entirely of mid Cretaceous Dawson Range granodiorite of the Whitehorse Suite (as per Jim Ryan et al, 2013). At the headwaters

of Rude Creek and Trombley Creek is a newly mapped plug of Upper Cretaceous quartz monzonite to dacite porphyry. An old showing (115J020) called Haxe occurs on the western edge of this plug, consisting of polymetallic Ag-Pb-Zn, +/-Au veins. The Haxe occurrence may be related to late Cretaceous events (i.e. not part of the mid-Cretaceous intrusive related target).

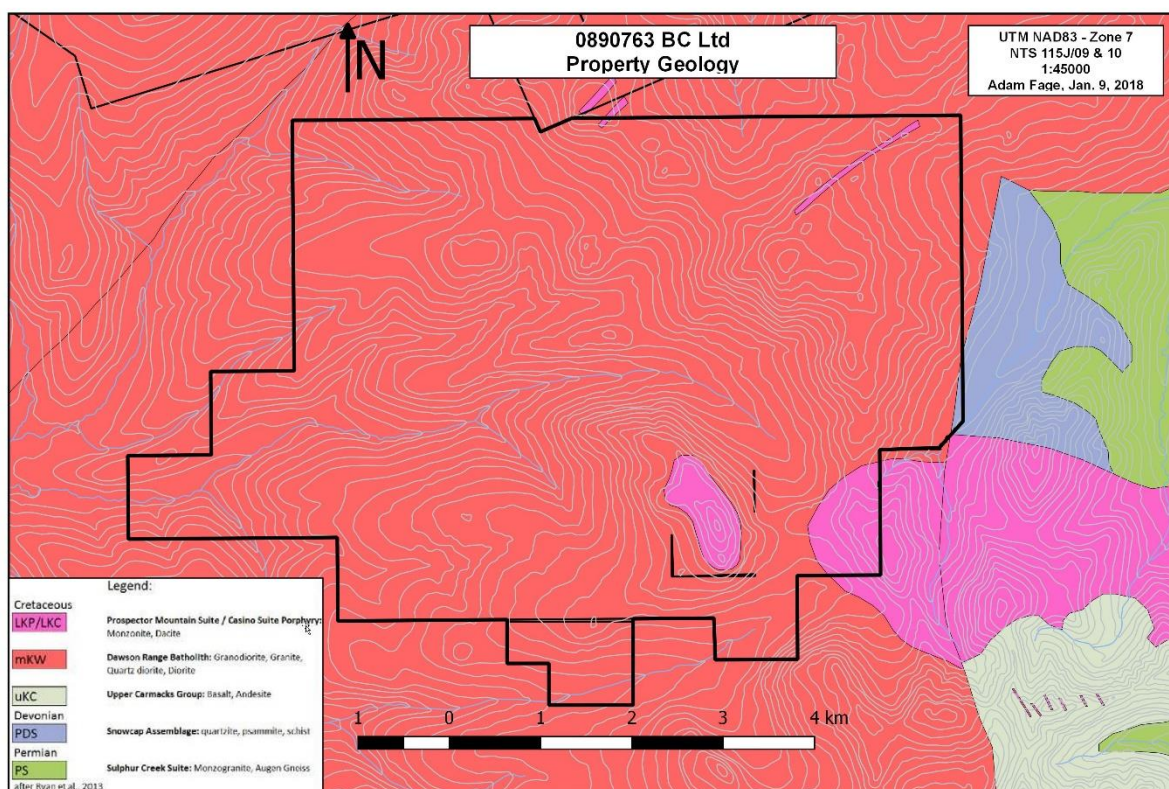


Figure 14: Local Geology of the Rude Creek Property
 Source: GSC (Jim Ryan, et al, 2013)

6 Reverse Circulation Drilling Program

6.1 Introduction

Midnight Sun drilled 3 Reverse Circulation holes on September 8,9 and 10, 2017

Drill hole ROY-2017-04 was drilled at an azimuth of 275°, dip of 70 degrees, and a total depth of 102.41m. The hole intersected two sample intervals containing gold greater than 100ppb (112.3ppb Au from 67.36-68.88m and 168.6ppb Au from 70.41-71.93m). The hole encountered fresh to weakly altered granodiorite throughout its entire length.

Drill hole ROY-2017-05 was drilled at an azimuth of 230°, dip of 60 degrees, and a total depth of 102.41m. The hole intersected two sample intervals containing gold greater

than 1g/t (2144.5ppb Au from 5.18-6.71m and 1072.5ppm Au from 17.07-18.59m). The interval 5.18-18.59m represents a drill intercept of 0.53g/t Au over 13.4m including 0.63g/t Au over 6.1m and 2.1g/t Au over 1.53m. Four additional isolated intervals of Au greater than 100pb were intersected throughout the remainder of the hole (343ppb Au from 39.93-41.75m, 205.9ppb Au from 70.41-71.93m, 264.7ppb Au from 79.55-81.08m, 359.1ppb Au from 97.84-99.36m). The mineralization in hole ROY-2017-04 is characterized by granodiorite with 5-10% limonite after pyrite and up to 5% fine grained quartz veining. The remainder of the hole encountered fresh to weakly altered granodiorite.

Drill hole ROY-2017-06 was drilled at an azimuth of 0°, dip of 75 degrees, and a total depth of 101.5m. The hole intersected three sample intervals containing gold greater than 100ppb (140.2ppb Au from 26.82-28.35m, 112.1ppb Au from 92.35-93.88m, and 118.2ppb Au from 95.40-96.93m). The hole encountered fresh to weakly altered granodiorite throughout its entire length.

6.2 RC Drill Overview

The specifications of the Midnight Sun RC are as follows:

- The RC Drill tracked platform with a tilting mast and rotary drill head.
- Reverse Circulation using 2 7/8" dual wall RC rods (90mm hole size) and a center sample hammer.
- Sets casing utilizing the ODEX (Eccentric Underreamer) system
- Sliding Angle Mast to -45 degrees
- 300 feet of on-board Rod storage
- 18,000 Pounds of Pullbacks
- 2,500 ft/lbs of Rotation Torque, 7 feet of head travel
- 300 cfm @ 200 psi Air compressor (Booster available to 500 psi)
- Travels over land at up to 4 km per hour
- Helicopter portable in 1400 pound sling loads

6.3 RC Drill Standard Operating Procedure

RC Drill Sampling:

1. Planned drill collar location is brushed out and RC Drill is setup.
2. Sampling Technician sets up sampling station at drill.
3. Once RC Drill is in position and setup, the operator drills casing into ground in 1.5m lengths.
4. Sample Bucket (5 gallon) is filled from cyclone, 4 - 7 minutes average frequency.

5. Sample is poured into 8:1 splitter
6. Retention Sample is put into a 5 gallon bucket from splitter and a portion is bagged in 12x20 ore bag, Sample ID, Hole ID and Interval written on Sample ID with marker and sealed with zip tie with external Sample ID attached, 5lbs weight. Excess retention is then discarded.
7. Analytical Sample is bagged in 12x20 ore bag , Sample ID Barcode inserted into bag and sealed with zip tie with external barcode Sample ID attached, 5lbs weight
8. Buckets and Splitter cleaned with pressurized air.
9. Chip Tray chips are collected from Retention bucket using a small plastic container.
10. Chips are then poured into 'dry' wire sieve to discard fine portion, the coarse material in dry strainer is poured into a second 'wet' sieve and washed in a 5 gallon bucket of water.
11. Once chips have been washed with 'wet' sieve, a smaller portion is catalogued in a chip tray with Sample ID and Interval marked.
12. Chips are later analyzed by a Geologist
13. Analytical samples are shipped to the laboratory

6.4 RC Drill Results

The drill logs for ROYRC17-04 to 06 are located in Appendix C. Geological logging was completed by Kel Sax. All three holes encountered fresh to weakly altered granodiorite throughout their entire lengths. Mineralization in ROYRC17-05 (0.63g/t Au over 6.1m) is associated with limonite after pyrite and fine grained quartz veining. This mineralization is accompanied by anomalous Cu, Pb, Zn, As, and Ag.

Hole_id	UTM_E	UTM_N	Azimuth	Dip
ROYRC17-04	624323	6950870	275	-70
ROYRC17-05	624323	6950870	230	-60
ROYRC17-06	624117	6950921	0	-75

7 Discussion and Interpretation

RC Drilling

Hole ROYRC17-05 returned **0.53g/t Au over 13.4m** including **0.63g/t Au over 6.1m** and **2.14g/t Au over 1.53m** at surface depths (<17.1m). This higher grade interval represents best intercept drilled in on the Royal Property and exhibits an intensification of grade (vectoring) towards the West. The grade here is also not dissimilar from the types of grades encountered at Coffee Creek. Highest gold grades were coincident with sericite altered, limonite after pyrite bearing granodiorite. As at the Coffee Creek deposit, colluvium at Rude Creek is composed of a thin veneer of soil, often <1m thick; this intercept is composed entirely of bedrock at surface.

ROYRC17-05 was drilled at the same location as ROYRC17-04 and near to ROYRAB16-03, however, these holes did not intercept any mineralization at surface. A summary of drill intercepts to date (≥ 66 ppb Au) is shown below.

Hole	Year	From (ft)	To (ft)	Interval (ft)	From (m)	To (m)	Interval (m)	Au g/t
ROYRAB15-01	2015	140	145	5	42.68	44.21	1.52	0.066
"	"	275	280	5	83.84	85.37	1.52	0.124
ROYRAB15-02	2015	-	-	-	-	-	-	-
ROYRAB16-03	2016	135	160	25	41.16	48.78	7.62	0.207
incl	"	150	155	5	45.73	47.26	1.52	0.750
and	"	260	265	5	79.27	80.79	1.52	0.070
ROYRC17-04	2017	146	151	5	44.5	46.02	1.52	0.100
"	"	221	226	5	67.36	68.88	1.52	0.110
"	"	231	236	5	70.41	71.93	1.52	0.170
"	"	266	271	5	81.08	82.6	1.52	0.070
ROYRC17-05	2017	17	61	44	5.18	18.59	13.41	0.530
incl	"	17	22	5	5.18	6.71	1.53	2.140
and	"	41	61	20	12.5	18.59	6.09	0.630
"	"	131	136	5	39.93	41.45	1.52	0.340
"	"	231	236	5	70.41	71.93	1.52	0.210
"	"	261	266	5	79.55	81.08	1.53	0.260
"	"	306	311	5	93.27	94.79	1.52	0.090
"	"	321	326	5	97.84	99.36	1.52	0.360
ROYRC17-06	2017	88	93	5	26.82	28.35	1.53	0.140
"	"	163	168	5	49.68	51.21	1.53	0.090
"	"	303	318	15	92.35	96.93	4.58	0.100
"	"	328	333	5	99.97	101.5	1.53	0.080

Figure 15: Significant Drill Intercepts, Rude Creek Property

8 Recommendations

The drill intercept encountered in ROYRC17-05 (**0.53g/t Au over 13.4m**) requires follow-up. An orientation of mineralization is not clearly defined due to the current drilling pattern. It is recommended to step behind the current drillhole by ~30m in order to attempt to intercept the mineralization down-dip. Once a dip of mineralization is determined, an additional drillhole to determine strike is recommended. Once a dip of the mineralization has been identified, additional drilling will be required to determine the strike.

9 Costs

Midnight Sun Invoice for 3 RC Holes including mob and demob	\$115,500.00
Assay of Drill Samples	\$7,017.46
Report Writing	\$500.00

Total \$123,017.46

10 References

Anderson, Farrell J., 2011: 2010 Geochemical Exploration Assessment Report on the POKER Gold Target

Deklerk, R. and Traynor, S. (compilers), 2005. Yukon MINFILE 2005 - A database of mineral occurrences. Yukon Geological Survey

Gordey, S.P. and Makepeace, A.J. (comp.) 2003. Yukon digital geology, version 2.0; Geological Survey of Canada Open File 1749 and Yukon Geological Survey Open File 2003-9(D)

Jaworski, Bart J. and Meyer, B., 2001: EMR assessment report 094062; Geological and Geochemical report on the Rude Creek Intrusion Related Gold Target

11 Qualification

I, Adam Fage have continuously been involved in Mineral Exploration since 2004. I graduated from Dalhousie University with an Honours Bachelor of Science (Earth Science) in 2008. I graduated from Lakehead University with a Master's of Science (Geology) in 2011.

Dated this 15th day of January, 2018.

Respectfully submitted

Adam Fage



Appendix A: Claims List

Grant Number	Name	OWNER	Operator
YC60328	ROYAL 1	Shawn Ryan - 70%, Wildwood Exploration Inc. - 30%	0890763 BC Ltd.
YC60329	ROYAL 2	Shawn Ryan - 70%, Wildwood Exploration Inc. - 30%	0890763 BC Ltd.
YC60330	ROYAL 3	Shawn Ryan - 70%, Wildwood Exploration Inc. - 30%	0890763 BC Ltd.
YC60331	ROYAL 4	Shawn Ryan - 70%, Wildwood Exploration Inc. - 30%	0890763 BC Ltd.
YC60332	ROYAL 5	Shawn Ryan - 70%, Wildwood Exploration Inc. - 30%	0890763 BC Ltd.
YC60333	ROYAL 6	Shawn Ryan - 70%, Wildwood Exploration Inc. - 30%	0890763 BC Ltd.
YC60334	ROYAL 7	Shawn Ryan - 70%, Wildwood Exploration Inc. - 30%	0890763 BC Ltd.
YC60335	ROYAL 8	Shawn Ryan - 70%, Wildwood Exploration Inc. - 30%	0890763 BC Ltd.
YC60336	ROYAL 9	Shawn Ryan - 70%, Wildwood Exploration Inc. - 30%	0890763 BC Ltd.
YC60337	ROYAL 10	Shawn Ryan - 70%, Wildwood Exploration Inc. - 30%	0890763 BC Ltd.
YC60338	ROYAL 11	Shawn Ryan - 70%, Wildwood Exploration Inc. - 30%	0890763 BC Ltd.
YC60339	ROYAL 12	Shawn Ryan - 70%, Wildwood Exploration Inc. - 30%	0890763 BC Ltd.
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YD19038	POKER 38	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD19039	POKER 39	Farrell J. Andersen - 100%	0890763 BC Ltd.

Appendix B: RC Samples Assay Certificate



BUREAU VERITAS MINERAL LABORATORIES
Canada

www.bureauveritas.com/um

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

Client: **0890763 B.C. Ltd**
1600-609 Granville Street
Vancouver British Columbia V7Y 1C3 Canada

Submitted By: Bart Jaworski
Receiving Lab: Canada-Whitehorse
Received: September 25, 2017
Report Date: October 31, 2017
Page: 1 of 6

CERTIFICATE OF ANALYSIS

WHI17000918.1

CLIENT JOB INFORMATION

Project: Rude Creek
Shipment ID:
P.O. Number
Number of Samples: 138

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 60 days

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

Invoice To: 0890763 B.C. Ltd
1600-609 Granville Street
Vancouver British Columbia V7Y 1C3
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	135	Crush, split and pulverize 250 g rock to 200 mesh			WHI
AQ202	135	1:1:1 Aqua Regia digestion ICP-MS analysis	30	Completed	VAN
SHP01	135	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS



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. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Project: Rude Creek
Report Date: October 31, 2017

Page: 2 of 6

Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI17000918.1

Method	WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
K966151	Rock Chip	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.	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.
K966152	Rock Chip	1.03	1.5	20.9	40.6	69	0.9	10.9	5.7	826	2.07	87.3	23.7	14.4	19	0.6	2.1	3.7	20	0.50	0.063
K966153	Rock Chip	1.61	0.9	9.9	16.9	50	0.2	8.9	5.6	567	2.31	24.7	28.9	14.2	47	0.3	1.3	1.6	37	1.03	0.070
K966154	Rock Chip	5.42	0.8	5.9	15.7	52	0.1	6.7	4.7	667	2.57	8.8	2.9	12.6	65	0.1	0.7	4.9	44	1.59	0.074
K966155	Rock Chip	5.57	0.7	4.3	13.1	41	<0.1	3.9	4.9	629	2.31	5.6	24.8	18.9	56	<0.1	0.4	1.1	29	1.78	0.067
K966156	Rock Chip	6.09	0.8	12.3	14.7	50	<0.1	4.0	7.3	627	2.69	19.4	6.7	16.4	43	0.2	1.5	1.5	40	1.42	0.069
K966157	Rock Chip	4.89	0.9	11.8	12.7	42	0.1	4.3	10.3	533	2.60	33.1	10.1	15.7	41	0.2	0.7	1.0	37	1.14	0.061
K966158	Rock Chip	5.42	1.0	27.9	11.9	54	0.2	4.9	12.1	756	4.10	58.9	18.3	15.7	49	0.2	0.9	3.7	43	1.18	0.071
K966159	Rock Chip	4.71	0.5	25.5	16.5	69	0.5	3.4	11.9	784	3.48	64.3	19.3	14.6	30	0.6	0.7	5.1	30	1.00	0.065
K966160	Rock Chip	5.83	0.9	8.7	22.1	39	0.5	3.9	6.3	626	2.17	25.2	30.7	16.5	37	0.4	0.5	21.8	24	1.10	0.066
K966161	Rock Chip	4.60	1.0	10.4	12.4	44	0.2	3.4	3.9	655	2.15	34.7	8.7	15.3	47	0.5	0.4	1.6	19	1.51	0.059
K966162	Rock Chip	3.90	1.2	17.1	16.9	62	0.3	4.6	6.4	722	2.52	100.2	18.3	14.0	41	0.6	0.9	1.6	24	1.87	0.068
K966163	Rock Chip	4.20	1.1	5.1	8.2	43	<0.1	4.4	5.4	642	2.73	11.3	1.4	12.9	40	0.1	0.4	0.5	43	1.01	0.069
K966164	Rock Chip	5.56	1.2	5.5	11.1	44	0.1	4.6	6.6	526	2.76	13.3	23.6	22.2	43	<0.1	0.7	2.5	44	0.86	0.061
K966165	Rock Chip	5.85	0.9	3.7	11.3	47	<0.1	4.9	7.6	702	2.85	6.4	5.3	15.5	61	0.2	0.5	0.6	45	1.41	0.072
K966166	Rock Chip	5.00	1.0	2.9	7.7	37	<0.1	4.3	5.2	649	2.75	5.7	2.0	13.4	143	0.2	0.7	0.2	44	1.29	0.071
K966167	Rock Chip	5.21	0.9	2.9	6.5	42	<0.1	4.1	3.8	762	2.68	4.8	2.6	14.8	97	0.2	0.4	0.4	43	1.32	0.068
K966168	Rock Chip	4.61	0.9	2.6	7.8	42	<0.1	4.2	6.0	751	3.02	7.0	2.5	15.3	48	<0.1	0.5	0.2	36	1.44	0.067
K966169	Rock Chip	5.56	0.8	3.1	5.7	41	<0.1	4.7	4.0	712	2.81	4.2	7.7	15.3	52	<0.1	0.5	0.2	32	1.42	0.062
K966170	Rock Chip	4.92	1.0	3.0	7.3	39	<0.1	3.5	3.2	624	2.44	2.8	0.9	13.2	51	<0.1	0.5	0.2	31	1.68	0.063
K966171	Rock Chip	6.00	1.1	3.8	8.6	38	<0.1	4.2	5.7	667	2.48	6.7	3.4	13.1	47	<0.1	0.5	0.3	32	1.44	0.062
K966172	Rock Chip	3.74	1.0	7.4	10.7	39	0.1	4.3	7.2	640	2.86	15.2	6.1	11.4	46	0.1	0.6	1.7	37	1.27	0.062
K966173	Rock Chip	4.51	1.3	6.2	7.5	41	<0.1	4.7	7.1	684	3.23	9.6	4.1	13.4	43	<0.1	0.6	0.5	45	1.15	0.064
K966174	Rock Chip	5.44	1.1	9.2	28.1	40	0.2	4.9	5.4	752	3.16	11.5	3.4	13.4	50	0.1	0.7	0.5	38	1.51	0.067
K966175	Rock Chip	4.10	1.1	5.8	14.0	37	0.1	4.4	5.5	678	2.86	6.2	1.6	13.8	46	<0.1	0.5	0.5	33	1.91	0.067
K966176	Rock Chip	4.16	1.3	2.7	9.3	37	<0.1	4.5	4.3	599	2.60	4.6	0.6	13.0	49	<0.1	0.5	0.2	36	1.46	0.056
K966177	Rock Chip	4.68	1.0	2.3	11.2	36	<0.1	3.6	5.5	680	2.32	3.6	0.8	17.4	82	<0.1	0.4	0.2	35	2.92	0.056
K966178	Rock Chip	4.59	1.3	2.8	7.7	44	<0.1	4.2	5.7	669	2.48	5.2	0.5	15.4	104	<0.1	0.8	0.2	41	1.35	0.059
K966179	Rock Chip	4.95	1.6	2.5	7.0	41	0.1	4.2	6.0	701	2.60	5.0	97.1	13.8	78	0.1	0.7	0.8	43	1.05	0.060
K966180	Rock Chip	5.30	1.4	2.9	8.7	46	<0.1	4.9	6.6	615	2.55	5.4	<0.5	13.5	50	0.1	0.8	0.4	45	0.80	0.058



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

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Method Analyte	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	TI	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
K966151	Rock Chip	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.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
K966152	Rock Chip	21	23	0.22	161	0.011	8	1.00	0.015	0.20	0.4	<0.01	2.7	0.3	<0.05	3	<0.5	<0.2
K966153	Rock Chip	18	13	0.45	154	0.059	6	1.26	0.036	0.16	0.8	<0.01	3.3	0.2	<0.05	6	<0.5	<0.2
K966154	Rock Chip	24	13	0.49	107	0.031	5	1.29	0.039	0.19	1.3	<0.01	4.0	0.2	<0.05	7	<0.5	<0.2
K966155	Rock Chip	24	10	0.39	105	0.006	7	1.17	0.039	0.23	0.6	<0.01	2.5	0.3	<0.05	5	<0.5	<0.2
K966156	Rock Chip	20	11	0.48	137	0.078	4	1.54	0.045	0.17	0.9	<0.01	3.7	0.3	<0.05	7	<0.5	<0.2
K966157	Rock Chip	18	10	0.40	110	0.059	4	1.26	0.055	0.21	1.3	<0.01	3.8	0.3	0.07	6	<0.5	<0.2
K966158	Rock Chip	24	14	0.51	153	0.034	5	1.74	0.048	0.26	0.8	<0.01	4.4	0.4	<0.05	7	<0.5	<0.2
K966159	Rock Chip	22	7	0.55	126	0.008	7	1.91	0.031	0.35	0.4	<0.01	3.2	0.6	<0.05	7	<0.5	<0.2
K966160	Rock Chip	24	11	0.34	155	0.005	9	1.34	0.038	0.32	0.6	<0.01	2.8	0.4	<0.05	5	<0.5	<0.2
K966161	Rock Chip	23	10	0.32	107	0.004	9	1.11	0.035	0.28	0.7	<0.01	2.3	0.4	<0.05	5	<0.5	<0.2
K966162	Rock Chip	22	9	0.36	109	0.004	8	1.24	0.035	0.29	0.7	<0.01	3.1	0.4	0.05	5	<0.5	<0.2
K966163	Rock Chip	25	13	0.53	197	0.090	5	1.23	0.058	0.40	0.9	<0.01	3.9	0.5	<0.05	5	<0.5	<0.2
K966164	Rock Chip	21	15	0.54	153	0.108	4	1.27	0.062	0.32	1.1	<0.01	4.6	0.4	<0.05	6	<0.5	<0.2
K966165	Rock Chip	19	14	0.61	116	0.050	4	1.51	0.041	0.20	0.5	<0.01	4.5	0.3	<0.05	7	<0.5	<0.2
K966166	Rock Chip	17	13	0.59	293	0.095	2	1.46	0.043	0.22	0.6	<0.01	3.8	0.3	<0.05	6	<0.5	<0.2
K966167	Rock Chip	20	13	0.62	338	0.088	3	1.42	0.045	0.38	0.5	<0.01	3.8	0.6	<0.05	5	<0.5	<0.2
K966168	Rock Chip	21	13	0.63	90	0.060	4	1.50	0.042	0.28	0.6	<0.01	3.4	0.4	<0.05	6	<0.5	<0.2
K966169	Rock Chip	21	12	0.58	96	0.035	4	1.47	0.053	0.32	0.6	<0.01	3.5	0.6	<0.05	6	<0.5	<0.2
K966170	Rock Chip	19	14	0.50	80	0.016	5	1.28	0.043	0.24	0.4	<0.01	2.9	0.3	<0.05	5	<0.5	<0.2
K966171	Rock Chip	18	13	0.49	73	0.025	6	1.29	0.051	0.24	0.5	<0.01	2.8	0.3	<0.05	5	<0.5	<0.2
K966172	Rock Chip	19	13	0.54	72	0.030	4	1.57	0.047	0.23	0.7	<0.01	3.7	0.4	<0.05	6	<0.5	<0.2
K966173	Rock Chip	21	16	0.65	130	0.076	3	1.45	0.047	0.36	0.6	<0.01	4.2	0.5	<0.05	6	<0.5	<0.2
K966174	Rock Chip	19	14	0.62	57	0.049	6	1.51	0.041	0.25	0.5	<0.01	3.3	0.4	<0.05	6	<0.5	<0.2
K966175	Rock Chip	22	14	0.48	46	0.013	4	1.39	0.042	0.22	0.3	<0.01	3.5	0.3	<0.05	6	<0.5	<0.2
K966176	Rock Chip	23	15	0.45	163	0.067	2	1.15	0.045	0.35	0.5	<0.01	4.1	0.4	<0.05	5	<0.5	<0.2
K966177	Rock Chip	23	12	0.42	211	0.066	1	1.20	0.029	0.34	0.4	<0.01	4.5	0.4	<0.05	5	<0.5	<0.2
K966178	Rock Chip	24	15	0.56	232	0.132	2	1.24	0.072	0.46	0.9	<0.01	4.1	0.5	<0.05	5	<0.5	<0.2
K966179	Rock Chip	21	15	0.59	194	0.140	3	1.25	0.082	0.44	0.9	<0.01	4.5	0.5	<0.05	5	<0.5	<0.2
K966180	Rock Chip	20	15	0.58	245	0.149	1	1.13	0.089	0.44	1.2	<0.01	3.5	0.4	<0.05	5	<0.5	<0.2



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: 0890763 B.C. Ltd
1600-609 Granville Street
Vancouver British Columbia V7Y 1C3 Canada

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Method	WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
K966181	Rock Chip	5.66	1.3	3.6	7.9	40	<0.1	4.4	6.0	580	2.76	5.8	1.1	14.4	45	<0.1	0.7	0.3	45	0.79	0.065
K966182	Rock Chip	5.76	1.5	2.3	7.1	36	<0.1	4.1	6.1	531	2.48	7.4	4.1	12.6	50	<0.1	0.7	0.2	38	0.83	0.066
K966183	Rock Chip	6.02	1.7	4.5	9.8	42	<0.1	4.5	5.0	583	3.12	10.9	5.3	12.8	53	0.1	0.9	0.4	44	1.02	0.063
K966184	Rock Chip	4.35	1.1	5.6	8.7	41	<0.1	4.2	5.7	608	2.98	14.6	27.5	15.0	63	0.1	0.7	1.9	49	1.01	0.076
K966185	Rock Chip	4.21	1.3	3.9	6.7	43	<0.1	4.7	6.8	656	2.86	5.9	3.6	15.5	47	<0.1	0.7	0.3	50	0.94	0.074
K966186	Rock Chip	4.31	1.2	1.8	6.4	38	<0.1	4.1	5.3	595	2.28	3.6	0.6	14.4	58	0.1	0.7	0.1	39	1.16	0.064
K966187	Rock Chip	4.06	1.3	2.3	7.1	38	<0.1	4.2	6.4	631	2.75	5.1	1.4	12.7	60	0.1	0.9	0.6	39	0.99	0.062
K966188	Rock Chip	3.74	1.4	2.5	7.3	32	<0.1	4.5	5.6	503	2.43	4.8	0.9	16.6	46	<0.1	0.7	0.2	38	0.85	0.065
K966189	Rock Chip	5.14	1.0	2.2	8.6	37	<0.1	3.7	5.1	531	2.36	6.2	2.8	13.6	53	0.1	0.7	0.4	32	1.18	0.064
K966190	Rock Chip	3.20	1.7	3.4	9.7	35	<0.1	4.6	5.3	541	2.48	6.8	0.9	14.2	51	0.1	0.9	0.3	36	0.92	0.064
K966191	Rock Chip	3.73	1.6	2.6	8.2	38	<0.1	4.2	6.6	522	2.26	5.2	1.0	13.2	55	0.1	0.9	0.1	35	0.93	0.069
K966192	Rock Chip	3.78	1.4	2.0	5.9	30	<0.1	3.5	6.0	495	2.39	5.5	0.6	13.5	48	<0.1	0.9	0.2	33	1.05	0.059
K966193	Rock Chip	5.82	1.3	3.1	9.6	45	<0.1	4.5	7.8	594	2.62	13.6	9.0	14.2	57	0.1	1.0	0.3	37	1.05	0.070
K966194	Rock Chip	3.29	2.1	13.9	15.5	40	0.2	4.2	16.8	887	3.29	55.1	112.3	11.5	51	0.2	1.3	6.0	34	1.88	0.058
K966195	Rock Chip	4.42	1.5	10.2	11.4	29	0.1	3.8	13.3	746	2.58	27.8	9.8	14.4	61	0.1	0.8	2.3	27	2.24	0.060
K966196	Rock Chip	3.70	1.5	5.6	11.4	36	<0.1	3.3	12.1	605	2.51	15.4	168.6	13.4	65	0.1	0.6	0.6	32	1.46	0.060
K966197	Rock Chip	0.96	2.4	6.4	11.2	42	0.1	4.0	8.9	632	2.65	19.3	7.6	13.3	60	0.1	1.1	0.9	33	1.51	0.064
K966198	Rock Chip	3.12	2.2	5.0	13.0	35	<0.1	4.1	5.3	593	2.46	11.7	4.9	13.2	56	0.2	0.9	1.2	31	1.29	0.064
K966199	Rock Chip	3.60	1.7	8.2	10.9	37	<0.1	5.6	8.6	588	2.77	13.6	10.8	13.0	70	0.1	0.9	0.8	37	1.20	0.065
K966200	Rock Chip	3.42	1.7	3.9	7.5	36	<0.1	4.4	6.5	516	2.53	7.2	4.5	15.1	66	<0.1	0.8	0.4	38	0.96	0.059
K966201	Rock Chip	3.01	1.3	8.0	7.0	35	<0.1	3.6	7.8	658	2.59	15.2	8.1	10.3	44	<0.1	0.6	2.7	32	1.43	0.062
K966202	Rock Chip	2.97	1.8	4.6	7.6	25	<0.1	3.6	4.5	435	2.00	9.3	1.6	15.1	124	<0.1	1.5	0.5	28	1.57	0.042
K966203	Rock Chip	4.52	1.8	8.7	9.7	34	0.1	4.4	6.6	583	2.69	14.1	73.3	14.9	79	<0.1	1.3	5.5	39	1.30	0.056
K966204	Rock Chip	3.72	1.7	5.0	7.2	33	<0.1	4.3	8.4	536	2.79	9.7	3.8	13.5	120	<0.1	0.7	0.3	43	1.14	0.061
K966205	Rock Chip	4.35	1.6	6.3	6.9	37	<0.1	4.6	8.2	575	2.70	10.9	3.3	12.8	57	<0.1	0.7	0.4	44	0.94	0.054
K966206	Rock Chip	3.19	1.8	5.9	7.5	33	<0.1	4.2	6.5	507	2.24	9.0	11.8	12.8	53	<0.1	0.7	0.3	33	0.91	0.053
K966207	Rock Chip	4.91	2.0	4.6	9.4	38	<0.1	4.7	6.3	507	2.41	8.0	2.1	13.3	68	0.1	0.9	1.7	35	0.97	0.059
K966208	Rock Chip	4.91	1.5	5.3	6.1	29	<0.1	3.8	4.1	529	2.01	5.3	0.7	13.8	47	<0.1	0.5	0.3	25	1.42	0.049
K966209	Rock Chip	6.50	1.3	3.4	9.0	32	<0.1	4.6	5.5	452	2.49	7.5	1.7	16.1	66	<0.1	0.9	0.2	36	0.89	0.058
K966210	Rock Chip	5.79	0.8	3.8	7.4	33	<0.1	3.9	4.3	562	2.19	7.5	1.6	14.4	41	<0.1	0.8	1.2	27	1.12	0.056



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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

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1600-609 Granville Street
Vancouver British Columbia V7Y 1C3 Canada

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Method Analyte Unit MDL	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	TI ppm	S %	Ga ppm	Se ppm	Te ppm	
	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2
K966181	Rock Chip	18	16	0.61	238	0.151	2	1.16	0.088	0.43	1.4	<0.01	3.6	0.5	<0.05	5	<0.5	<0.2
K966182	Rock Chip	14	16	0.52	103	0.117	3	1.12	0.065	0.26	1.3	<0.01	2.7	0.4	<0.05	5	<0.5	<0.2
K966183	Rock Chip	15	15	0.54	85	0.115	3	1.30	0.067	0.30	1.6	<0.01	3.6	0.5	<0.05	6	<0.5	<0.2
K966184	Rock Chip	20	14	0.66	165	0.115	1	1.56	0.064	0.40	0.8	<0.01	3.7	0.5	<0.05	5	<0.5	<0.2
K966185	Rock Chip	22	15	0.71	250	0.151	<1	1.35	0.068	0.48	1.1	<0.01	4.1	0.5	<0.05	6	<0.5	<0.2
K966186	Rock Chip	15	14	0.56	70	0.084	1	1.26	0.057	0.21	0.7	<0.01	2.9	0.3	<0.05	5	<0.5	<0.2
K966187	Rock Chip	15	16	0.65	105	0.119	1	1.33	0.069	0.25	1.1	<0.01	3.0	0.3	<0.05	6	<0.5	<0.2
K966188	Rock Chip	17	15	0.52	116	0.132	2	1.09	0.067	0.24	2.1	<0.01	2.9	0.3	<0.05	5	<0.5	<0.2
K966189	Rock Chip	13	12	0.53	52	0.083	4	1.27	0.066	0.21	0.8	<0.01	2.7	0.3	<0.05	5	<0.5	<0.2
K966190	Rock Chip	16	18	0.52	79	0.118	3	1.14	0.060	0.19	2.5	<0.01	2.8	0.3	0.06	5	<0.5	<0.2
K966191	Rock Chip	13	15	0.51	64	0.121	3	1.19	0.067	0.18	1.4	<0.01	2.7	0.2	<0.05	5	<0.5	<0.2
K966192	Rock Chip	14	15	0.52	58	0.113	4	1.24	0.067	0.20	1.0	<0.01	2.6	0.3	<0.05	5	<0.5	<0.2
K966193	Rock Chip	15	14	0.56	65	0.130	3	1.34	0.072	0.20	0.8	<0.01	2.9	0.3	0.05	6	<0.5	<0.2
K966194	Rock Chip	15	12	0.54	48	0.088	3	1.49	0.043	0.18	1.6	<0.01	3.4	0.3	0.15	6	<0.5	<0.2
K966195	Rock Chip	15	13	0.44	52	0.046	4	1.39	0.058	0.28	1.1	<0.01	3.1	0.4	0.12	5	<0.5	<0.2
K966196	Rock Chip	15	15	0.48	60	0.078	4	1.39	0.083	0.24	1.0	<0.01	3.1	0.3	0.12	5	<0.5	<0.2
K966197	Rock Chip	14	18	0.47	78	0.073	4	1.30	0.051	0.24	0.9	<0.01	3.3	0.4	0.06	5	<0.5	<0.2
K966198	Rock Chip	15	16	0.46	58	0.089	3	1.18	0.054	0.19	3.3	<0.01	3.1	0.3	0.06	5	<0.5	<0.2
K966199	Rock Chip	13	15	0.50	50	0.109	3	1.22	0.061	0.15	2.2	<0.01	2.9	0.2	0.12	5	<0.5	<0.2
K966200	Rock Chip	16	17	0.51	109	0.117	4	1.17	0.064	0.20	1.4	<0.01	3.1	0.2	<0.05	5	<0.5	<0.2
K966201	Rock Chip	12	12	0.53	52	0.081	5	1.39	0.081	0.24	0.9	<0.01	2.9	0.3	0.15	5	<0.5	<0.2
K966202	Rock Chip	14	15	0.42	142	0.051	2	1.37	0.040	0.22	0.9	<0.01	2.7	0.3	<0.05	4	<0.5	<0.2
K966203	Rock Chip	17	14	0.59	141	0.097	3	1.36	0.053	0.26	1.2	<0.01	3.9	0.3	0.13	6	<0.5	<0.2
K966204	Rock Chip	17	15	0.60	160	0.131	3	1.36	0.076	0.28	35.4	0.01	3.7	0.3	0.07	5	<0.5	<0.2
K966205	Rock Chip	16	15	0.60	203	0.145	3	1.27	0.092	0.39	1.9	<0.01	3.4	0.4	0.09	5	<0.5	<0.2
K966206	Rock Chip	13	16	0.48	76	0.101	3	1.15	0.087	0.23	1.5	<0.01	2.8	0.3	0.06	5	<0.5	<0.2
K966207	Rock Chip	14	17	0.53	79	0.121	4	1.19	0.067	0.20	2.5	<0.01	2.8	0.3	<0.05	5	<0.5	<0.2
K966208	Rock Chip	13	14	0.44	51	0.046	5	1.23	0.097	0.30	1.0	<0.01	2.2	0.3	<0.05	5	<0.5	<0.2
K966209	Rock Chip	12	16	0.49	65	0.125	3	1.09	0.063	0.17	3.5	<0.01	3.0	0.2	<0.05	5	<0.5	<0.2
K966210	Rock Chip	11	10	0.49	45	0.092	4	1.16	0.053	0.20	1.5	<0.01	2.7	0.3	<0.05	5	<0.5	<0.2



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: 0890763 B.C. Ltd
1600-609 Granville Street
Vancouver British Columbia V7Y 1C3 Canada

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Method	Analyte	WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit	MDL	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
K966211	Rock Chip	3.81	1.4	5.8	9.5	37	<0.1	4.6	5.3	566	2.28	8.8	3.1	13.1	43	<0.1	1.1	0.8	29	1.20	0.057
K966212	Rock Chip	5.18	1.1	4.1	8.0	34	<0.1	4.2	3.8	504	2.30	6.5	1.2	13.8	57	<0.1	1.2	0.3	33	1.14	0.061
K966213	Rock Chip	5.89	1.9	5.1	8.1	30	<0.1	4.3	5.2	524	2.45	10.7	4.5	12.7	52	0.1	1.1	5.3	37	1.01	0.059
K966214	Rock Chip	3.20	3.5	5.2	8.3	35	<0.1	5.2	5.8	527	2.47	9.4	3.1	15.7	43	<0.1	0.9	2.4	38	0.84	0.058
K966215	Rock Chip	4.98	2.4	4.9	7.0	35	<0.1	4.8	6.2	522	2.51	9.2	1.2	16.2	40	0.1	0.9	5.2	40	0.79	0.054
K966216	Rock Chip	6.91	1.0	6.3	8.6	34	0.1	3.9	7.3	560	2.51	11.2	26.8	14.5	35	<0.1	0.7	4.6	42	0.85	0.056
K966217	Rock Chip	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.	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.
K966218	Rock Chip	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.	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.
K966219	Rock Chip	1.01	1.0	15.1	21.9	54	0.5	8.1	5.6	620	2.22	56.7	12.6	13.6	22	0.4	1.4	3.3	27	0.50	0.076
K966220	Rock Chip	2.93	0.9	8.9	15.3	40	0.5	5.9	4.1	584	2.24	14.2	2144.5	13.9	37	0.2	0.6	4.3	28	1.09	0.076
K966221	Rock Chip	3.06	0.8	9.0	14.4	46	0.1	5.5	4.0	612	2.43	13.1	22.7	21.3	48	0.2	0.6	3.7	29	1.57	0.069
K966222	Rock Chip	1.41	0.6	14.8	16.1	46	<0.1	5.5	6.3	638	2.55	15.8	21.7	16.6	47	0.2	0.8	4.9	28	2.33	0.080
K966223	Rock Chip	1.55	0.8	14.7	12.3	44	0.1	4.0	7.5	566	2.56	15.8	2.4	14.6	40	0.2	1.4	1.0	43	1.48	0.080
K966224	Rock Chip	2.22	0.7	19.7	10.8	66	0.1	4.7	6.6	638	3.02	17.6	8.4	16.3	40	0.4	0.9	2.5	36	1.23	0.077
K966225	Rock Chip	2.90	1.5	54.0	26.2	85	1.3	8.4	10.7	774	9.14	144.0	483.9	13.4	29	0.7	3.0	10.2	47	0.83	0.070
K966226	Rock Chip	2.59	1.3	57.5	19.7	107	1.4	4.9	17.9	1042	6.52	156.7	14.9	12.8	34	1.1	2.4	4.4	42	0.93	0.073
K966227	Rock Chip	3.19	2.7	118.8	296.8	279	24.8	4.1	13.0	605	6.90	2829.5	985.7	10.6	65	8.5	8.5	41.5	26	0.62	0.060
K966228	Rock Chip	2.15	0.7	13.2	13.2	46	0.4	4.3	7.4	721	2.59	61.8	1072.5	13.0	44	0.5	1.7	6.4	29	2.07	0.068
K966229	Rock Chip	2.63	0.6	10.1	15.5	35	0.2	3.7	8.0	540	1.94	32.5	14.5	12.9	44	0.3	0.9	3.0	25	1.85	0.069
K966230	Rock Chip	3.02	0.5	16.1	16.0	39	<0.1	4.5	8.3	575	2.17	18.1	24.2	21.0	47	0.3	0.7	4.5	26	2.12	0.065
K966231	Rock Chip	2.05	1.6	7.7	14.4	41	<0.1	4.1	6.9	565	1.97	10.0	14.4	14.3	42	0.3	1.2	1.1	29	1.98	0.065
K966232	Rock Chip	2.65	4.4	5.3	8.3	33	<0.1	4.3	6.2	647	2.10	8.7	7.2	12.7	69	0.2	1.3	0.7	35	2.62	0.061
K966233	Rock Chip	1.74	4.3	7.2	9.7	32	<0.1	4.5	8.7	593	2.22	16.1	36.6	16.7	122	0.2	1.1	2.4	23	2.31	0.067
K966234	Rock Chip	2.00	0.6	18.7	14.9	45	<0.1	5.9	12.3	760	3.18	34.8	42.9	16.1	66	0.4	2.7	3.3	25	2.61	0.061
K966235	Rock Chip	2.13	1.0	2.9	7.9	37	<0.1	4.3	4.2	619	2.52	7.2	1.5	20.8	45	<0.1	1.5	0.2	37	1.43	0.067
K966236	Rock Chip	1.60	1.0	2.3	6.5	39	<0.1	4.5	5.8	648	2.82	7.8	<0.5	14.7	52	<0.1	0.9	0.2	47	0.80	0.065
K966237	Rock Chip	2.90	1.1	2.0	7.3	46	<0.1	5.1	6.0	722	3.00	7.2	0.6	13.9	85	<0.1	1.0	0.2	52	1.12	0.076
K966238	Rock Chip	3.02	1.1	2.6	7.5	45	<0.1	4.6	5.7	660	2.75	8.6	1.6	15.6	67	<0.1	1.1	0.2	47	1.07	0.072
K966239	Rock Chip	3.15	1.1	1.9	9.0	39	<0.1	4.1	4.4	820	2.56	7.5	<0.5	13.7	122	0.1	1.5	0.2	38	1.46	0.068
K966240	Rock Chip	3.71	0.9	2.1	8.2	36	<0.1	3.7	3.5	606	2.21	6.0	<0.5	14.2	245	<0.1	1.2	0.1	38	1.37	0.064



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: 0890763 B.C. Ltd
1600-609 Granville Street
Vancouver British Columbia V7Y 1C3 Canada

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Method Analyte Unit MDL	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	TI	S	Ga	Se	Te	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
K966211	Rock Chip	11	13	0.50	53	0.101	4	1.17	0.049	0.20	2.7	<0.01	2.6	0.3	0.07	4	<0.5	<0.2
K966212	Rock Chip	14	12	0.49	57	0.117	5	1.14	0.052	0.18	1.7	<0.01	2.8	0.3	<0.05	5	<0.5	<0.2
K966213	Rock Chip	15	16	0.52	109	0.119	5	1.19	0.058	0.29	1.8	<0.01	2.8	0.4	<0.05	4	<0.5	<0.2
K966214	Rock Chip	19	22	0.50	171	0.131	3	1.10	0.081	0.38	5.0	<0.01	3.0	0.4	<0.05	4	<0.5	<0.2
K966215	Rock Chip	22	19	0.52	243	0.160	4	1.12	0.088	0.45	3.8	<0.01	3.3	0.5	0.06	4	<0.5	<0.2
K966216	Rock Chip	22	12	0.54	227	0.147	5	1.16	0.092	0.45	2.0	<0.01	3.5	0.5	0.11	4	<0.5	<0.2
K966217	Rock Chip	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.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
K966218	Rock Chip	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.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
K966219	Rock Chip	26	12	0.32	177	0.019	9	1.34	0.021	0.25	0.6	0.01	2.7	0.3	<0.05	3	<0.5	<0.2
K966220	Rock Chip	28	11	0.42	133	0.005	8	1.63	0.027	0.24	0.3	<0.01	2.8	0.3	<0.05	5	<0.5	<0.2
K966221	Rock Chip	31	11	0.44	128	0.004	4	1.55	0.029	0.25	0.5	<0.01	2.9	0.3	<0.05	6	<0.5	<0.2
K966222	Rock Chip	30	10	0.52	91	0.002	5	1.88	0.014	0.19	0.5	<0.01	2.7	0.3	<0.05	8	<0.5	<0.2
K966223	Rock Chip	24	12	0.50	202	0.061	3	1.69	0.047	0.22	0.8	<0.01	4.2	0.3	<0.05	7	<0.5	<0.2
K966224	Rock Chip	30	10	0.50	128	0.003	5	1.83	0.029	0.26	0.5	<0.01	4.5	0.4	<0.05	7	<0.5	<0.2
K966225	Rock Chip	22	9	0.59	150	0.012	6	2.34	0.017	0.30	1.0	<0.01	5.5	0.5	<0.05	11	<0.5	<0.2
K966226	Rock Chip	27	9	0.57	156	0.013	3	2.20	0.016	0.26	1.2	<0.01	4.8	0.4	<0.05	10	<0.5	<0.2
K966227	Rock Chip	23	6	0.32	145	0.003	7	1.87	0.007	0.28	1.1	<0.01	3.9	0.4	<0.05	9	<0.5	<0.2
K966228	Rock Chip	24	7	0.56	126	0.005	3	2.00	0.011	0.27	0.6	<0.01	3.9	0.4	<0.05	7	<0.5	<0.2
K966229	Rock Chip	28	8	0.45	79	0.001	4	1.55	0.018	0.19	0.3	<0.01	2.9	0.3	<0.05	6	<0.5	<0.2
K966230	Rock Chip	24	8	0.54	74	<0.001	3	2.12	0.008	0.16	0.3	<0.01	3.1	0.2	<0.05	7	<0.5	<0.2
K966231	Rock Chip	20	9	0.48	92	0.022	2	1.76	0.020	0.17	0.6	<0.01	3.3	0.3	<0.05	6	<0.5	<0.2
K966232	Rock Chip	19	9	0.52	126	0.064	4	1.60	0.032	0.17	0.8	<0.01	3.6	0.2	<0.05	6	<0.5	<0.2
K966233	Rock Chip	24	9	0.56	203	0.002	2	2.29	0.008	0.15	0.5	<0.01	2.8	0.2	<0.05	6	<0.5	<0.2
K966234	Rock Chip	27	7	0.59	112	0.001	4	2.16	0.007	0.21	0.7	<0.01	3.4	0.3	<0.05	8	<0.5	<0.2
K966235	Rock Chip	21	12	0.51	82	0.054	4	1.51	0.037	0.19	0.7	<0.01	3.7	0.3	<0.05	5	<0.5	<0.2
K966236	Rock Chip	24	13	0.62	266	0.145	3	1.36	0.067	0.39	1.2	<0.01	4.4	0.5	<0.05	5	<0.5	<0.2
K966237	Rock Chip	24	14	0.64	284	0.145	2	1.57	0.068	0.35	0.6	<0.01	4.4	0.4	<0.05	6	<0.5	<0.2
K966238	Rock Chip	23	13	0.57	200	0.128	<1	1.53	0.072	0.33	0.7	<0.01	4.4	0.4	<0.05	6	<0.5	<0.2
K966239	Rock Chip	18	12	0.52	188	0.078	2	1.64	0.046	0.17	0.9	0.02	3.7	0.2	<0.05	6	<0.5	<0.2
K966240	Rock Chip	18	11	0.47	235	0.086	2	1.48	0.046	0.18	0.8	<0.01	2.7	0.2	<0.05	5	<0.5	<0.2



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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

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1600-609 Granville Street
Vancouver British Columbia V7Y 1C3 Canada

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Method Analyte	Unit	WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
MDL	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
K966241	Rock Chip	2.77	2.5	3.5	5.2	45	<0.1	4.3	8.2	712	3.04	8.3	2.3	13.6	52	<0.1	0.9	0.3	41	1.32	0.075
K966242	Rock Chip	3.40	1.3	3.2	6.8	33	<0.1	3.9	3.9	520	2.41	4.5	0.9	13.2	61	<0.1	0.9	0.1	43	1.13	0.064
K966243	Rock Chip	3.18	1.6	11.7	8.4	38	0.2	3.5	8.5	595	3.07	34.7	343.0	14.4	33	0.1	0.9	3.2	36	1.09	0.060
K966244	Rock Chip	3.07	1.4	3.5	6.4	41	<0.1	4.4	4.8	583	3.25	7.3	2.2	12.3	101	<0.1	0.8	0.2	61	1.07	0.076
K966245	Rock Chip	2.32	1.4	2.7	5.1	38	<0.1	4.3	4.4	565	2.79	5.8	4.5	13.5	64	<0.1	0.6	0.1	49	0.69	0.056
K966246	Rock Chip	3.04	1.5	3.1	4.7	39	<0.1	4.1	6.5	537	2.57	8.5	1.9	12.7	49	<0.1	0.5	0.1	46	0.58	0.055
K966247	Rock Chip	3.53	1.4	3.5	6.7	34	<0.1	4.0	4.2	530	2.75	9.1	<0.5	12.5	159	<0.1	0.8	0.1	45	0.93	0.070
K966248	Rock Chip	3.45	1.4	2.9	5.7	37	<0.1	4.3	5.5	560	2.76	7.8	2.1	11.9	58	<0.1	0.6	0.1	47	0.78	0.064
K966249	Rock Chip	2.92	1.3	4.1	7.3	36	<0.1	3.9	8.4	552	2.87	10.8	3.5	12.4	92	0.1	0.6	0.2	39	0.97	0.059
K966250	Rock Chip	2.53	1.2	2.5	7.0	36	<0.1	4.2	5.6	553	2.72	8.4	<0.5	13.8	63	<0.1	0.9	0.7	43	1.15	0.063
K966251	Rock Chip	3.09	1.3	2.6	6.4	35	<0.1	4.4	6.1	523	2.66	8.8	1.2	12.4	66	<0.1	0.8	0.2	45	0.88	0.065
K966252	Rock Chip	3.05	0.8	2.1	8.3	33	<0.1	3.8	4.2	483	2.35	8.9	1.6	14.0	83	<0.1	1.5	0.5	30	1.47	0.075
K966253	Rock Chip	3.49	1.2	3.3	7.3	36	<0.1	3.7	3.2	583	2.64	5.2	9.3	11.6	58	<0.1	0.7	0.3	32	1.53	0.066
K966254	Rock Chip	2.51	1.2	2.8	8.5	36	<0.1	4.3	3.1	542	2.32	5.3	<0.5	13.8	71	<0.1	0.8	0.3	32	1.31	0.059
K966255	Rock Chip	2.04	1.5	3.2	7.1	34	0.1	4.0	4.0	536	2.73	9.2	3.1	12.5	57	<0.1	0.6	1.8	41	0.92	0.066
K966256	Rock Chip	2.74	1.4	5.1	7.3	43	<0.1	4.6	4.2	605	2.96	7.4	<0.5	13.4	101	0.1	0.6	0.5	41	1.04	0.066
K966257	Rock Chip	2.60	2.0	4.2	5.4	40	<0.1	4.7	4.9	555	2.76	6.1	<0.5	14.7	91	<0.1	0.5	0.3	45	0.77	0.062
K966258	Rock Chip	2.29	1.4	3.1	6.2	41	<0.1	4.8	6.1	614	2.81	5.7	<0.5	15.0	143	<0.1	0.7	0.6	47	1.03	0.068
K966259	Rock Chip	3.05	1.4	3.5	6.3	39	<0.1	5.1	5.1	546	2.87	8.6	<0.5	13.6	79	<0.1	0.8	0.7	50	0.99	0.068
K966260	Rock Chip	3.57	1.2	3.8	6.8	34	<0.1	4.3	3.9	534	2.56	5.8	<0.5	13.7	65	<0.1	1.1	0.8	38	1.24	0.065
K966261	Rock Chip	3.26	1.3	3.3	6.3	38	<0.1	4.6	4.4	544	2.66	5.8	<0.5	12.2	70	<0.1	1.0	0.7	40	1.31	0.064
K966262	Rock Chip	2.51	1.6	6.4	7.4	38	<0.1	4.9	4.5	572	2.72	7.7	<0.5	13.4	80	<0.1	1.2	2.3	39	1.49	0.060
K966263	Rock Chip	2.60	0.7	12.8	10.2	33	<0.1	4.7	18.9	559	2.92	28.2	205.9	11.6	81	0.1	2.6	25.3	26	3.07	0.062
K966264	Rock Chip	2.62	1.3	4.0	6.6	39	<0.1	4.8	3.2	554	2.50	6.3	1.6	10.0	72	<0.1	1.0	3.4	37	1.11	0.068
K966265	Rock Chip	3.07	1.6	8.3	9.9	33	<0.1	3.3	3.4	465	2.24	9.5	1.1	12.1	186	0.2	1.0	2.0	32	1.23	0.059
K966266	Rock Chip	2.97	1.6	3.9	6.2	30	<0.1	4.1	4.5	431	2.37	6.6	<0.5	12.8	60	<0.1	0.6	0.5	37	0.78	0.051
K966267	Rock Chip	2.77	1.4	4.9	5.7	29	<0.1	3.6	4.6	472	2.25	8.0	2.4	13.5	48	<0.1	0.6	1.6	33	0.73	0.048
K966268	Rock Chip	3.21	1.6	2.8	5.9	28	<0.1	3.7	5.8	467	2.23	8.5	5.9	11.4	69	0.1	0.8	0.2	32	0.88	0.051
K966269	Rock Chip	3.19	1.6	9.0	5.4	41	0.2	8.4	63.9	631	3.47	121.0	264.7	12.4	54	<0.1	0.7	9.4	40	1.33	0.067
K966270	Rock Chip	3.42	1.6	4.9	6.6	34	<0.1	4.7	12.3	527	2.46	16.2	10.1	14.0	88	<0.1	0.7	0.8	35	1.44	0.061



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: 0890763 B.C. Ltd
1600-609 Granville Street
Vancouver British Columbia V7Y 1C3 Canada

Project: Rude Creek
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Method Analyte	Unit	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	TI	S	Ga	Se	Te
MDL	MDL	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2
K966241	Rock Chip	24	11	0.64	76	0.056	5	1.69	0.054	0.27	0.5	0.01	4.2	0.4	<0.05	7	<0.5	<0.2
K966242	Rock Chip	20	14	0.45	98	0.099	2	1.28	0.060	0.25	0.7	<0.01	3.5	0.4	<0.05	5	<0.5	<0.2
K966243	Rock Chip	24	12	0.45	72	0.034	5	1.44	0.043	0.23	1.1	<0.01	3.9	0.4	<0.05	6	<0.5	<0.2
K966244	Rock Chip	20	15	0.59	125	0.144	2	1.52	0.078	0.38	2.4	<0.01	5.3	0.6	<0.05	6	<0.5	<0.2
K966245	Rock Chip	20	13	0.61	260	0.154	5	1.30	0.107	0.56	0.9	<0.01	4.1	0.7	<0.05	5	<0.5	<0.2
K966246	Rock Chip	20	14	0.58	288	0.160	3	1.17	0.109	0.58	1.0	<0.01	4.1	0.7	<0.05	5	<0.5	<0.2
K966247	Rock Chip	14	14	0.51	76	0.105	5	1.35	0.089	0.23	0.9	<0.01	3.3	0.3	<0.05	5	<0.5	<0.2
K966248	Rock Chip	18	14	0.54	179	0.135	3	1.22	0.095	0.38	1.0	<0.01	3.5	0.5	<0.05	5	<0.5	<0.2
K966249	Rock Chip	13	13	0.47	70	0.078	4	1.22	0.067	0.17	1.0	<0.01	2.7	0.2	<0.05	5	<0.5	<0.2
K966250	Rock Chip	16	13	0.59	186	0.101	2	1.44	0.050	0.32	0.9	<0.01	3.9	0.4	<0.05	5	<0.5	<0.2
K966251	Rock Chip	16	14	0.56	162	0.117	4	1.28	0.076	0.28	0.8	<0.01	3.4	0.3	<0.05	5	<0.5	<0.2
K966252	Rock Chip	15	11	0.49	60	0.016	2	2.20	0.021	0.16	0.7	<0.01	2.7	0.3	<0.05	7	<0.5	<0.2
K966253	Rock Chip	15	13	0.49	58	0.054	3	1.43	0.044	0.19	0.6	<0.01	2.8	0.3	<0.05	6	<0.5	<0.2
K966254	Rock Chip	11	12	0.49	61	0.062	3	1.39	0.049	0.16	0.8	<0.01	2.4	0.2	<0.05	5	<0.5	<0.2
K966255	Rock Chip	15	15	0.56	128	0.113	3	1.21	0.064	0.27	1.4	<0.01	2.9	0.3	<0.05	5	<0.5	<0.2
K966256	Rock Chip	18	16	0.60	141	0.117	3	1.35	0.068	0.32	1.3	<0.01	3.2	0.4	<0.05	5	<0.5	<0.2
K966257	Rock Chip	20	18	0.59	247	0.146	1	1.21	0.101	0.46	2.0	<0.01	3.9	0.5	<0.05	5	<0.5	<0.2
K966258	Rock Chip	23	15	0.65	318	0.153	<1	1.45	0.080	0.52	1.5	<0.01	4.2	0.6	<0.05	5	<0.5	<0.2
K966259	Rock Chip	19	17	0.65	192	0.149	3	1.34	0.063	0.33	1.1	<0.01	3.9	0.4	<0.05	5	<0.5	<0.2
K966260	Rock Chip	15	14	0.55	94	0.094	3	1.33	0.050	0.21	1.1	<0.01	2.7	0.3	<0.05	5	<0.5	<0.2
K966261	Rock Chip	17	14	0.59	159	0.110	2	1.45	0.056	0.29	1.1	<0.01	3.4	0.4	<0.05	5	<0.5	<0.2
K966262	Rock Chip	19	15	0.60	178	0.108	2	1.52	0.055	0.28	1.1	<0.01	3.6	0.4	<0.05	6	<0.5	<0.2
K966263	Rock Chip	14	10	0.52	54	0.017	2	1.93	0.022	0.19	0.8	<0.01	2.6	0.3	<0.05	8	<0.5	<0.2
K966264	Rock Chip	12	15	0.57	66	0.100	4	1.30	0.053	0.17	2.1	<0.01	2.9	0.3	<0.05	5	<0.5	<0.2
K966265	Rock Chip	12	14	0.47	127	0.090	3	1.37	0.060	0.17	1.3	<0.01	2.6	0.2	0.05	5	<0.5	<0.2
K966266	Rock Chip	13	15	0.48	104	0.107	3	1.07	0.072	0.21	1.6	<0.01	2.6	0.2	<0.05	4	<0.5	<0.2
K966267	Rock Chip	15	14	0.47	143	0.110	3	1.04	0.079	0.29	1.5	<0.01	2.6	0.3	<0.05	4	<0.5	<0.2
K966268	Rock Chip	11	14	0.46	47	0.083	4	1.10	0.070	0.15	1.5	<0.01	2.3	0.2	0.06	4	<0.5	<0.2
K966269	Rock Chip	16	15	0.61	93	0.108	5	1.31	0.064	0.22	1.6	<0.01	3.2	0.3	0.88	6	<0.5	<0.2
K966270	Rock Chip	17	15	0.52	95	0.091	3	1.33	0.061	0.16	1.5	<0.01	2.9	0.2	0.14	5	<0.5	<0.2



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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: 0890763 B.C. Ltd
1600-609 Granville Street
Vancouver British Columbia V7Y 1C3 Canada

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CERTIFICATE OF ANALYSIS

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Method	Analyte	WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
K966271	Rock Chip	2.85	1.7	3.2	9.8	34	0.1	4.2	3.4	513	2.31	6.5	0.8	12.2	65	0.2	1.1	3.5	32	0.96	0.062
K966272	Rock Chip	3.18	1.6	4.4	9.8	31	<0.1	4.4	7.5	493	2.25	8.5	1.1	13.0	124	<0.1	0.9	1.7	33	1.46	0.064
K966273	Rock Chip	2.81	1.2	2.1	7.2	32	<0.1	3.9	3.7	530	2.07	5.3	<0.5	13.8	78	<0.1	1.2	0.8	26	1.63	0.066
K966274	Rock Chip	3.09	1.1	1.4	8.7	35	<0.1	4.4	4.1	493	2.06	6.6	<0.5	13.4	105	<0.1	0.7	0.6	26	1.46	0.061
K966275	Rock Chip	2.86	1.2	2.8	13.6	37	0.2	5.2	3.9	740	2.67	8.6	1.6	11.9	177	0.1	0.7	31.0	28	3.60	0.057
K966276	Rock Chip	2.75	1.8	3.6	8.8	29	<0.1	4.0	2.3	462	1.93	4.7	1.4	13.9	79	<0.1	0.7	2.5	25	1.42	0.055
K966277	Rock Chip	3.09	1.5	5.9	6.1	32	<0.1	4.1	2.8	614	2.37	6.7	2.9	11.0	74	<0.1	0.9	0.5	25	1.54	0.059
K966278	Rock Chip	2.16	1.6	8.6	6.3	30	<0.1	6.5	16.8	645	2.34	27.3	89.6	14.1	54	0.1	0.6	1.1	26	1.65	0.058
K966279	Rock Chip	3.10	1.4	4.4	7.0	25	<0.1	3.8	3.8	441	1.84	8.5	5.7	18.7	58	<0.1	1.2	0.7	19	2.08	0.050
K966280	Rock Chip	2.95	1.0	6.8	8.3	26	<0.1	3.5	7.7	490	1.91	13.8	36.1	18.3	65	0.1	1.6	2.2	17	2.27	0.058
K966281	Rock Chip	2.78	1.3	17.9	12.5	37	0.1	11.0	42.1	634	3.24	42.5	359.1	13.9	82	0.2	3.4	17.9	26	2.81	0.068
K966282	Rock Chip	2.94	1.6	14.5	9.2	28	0.1	4.2	4.2	529	2.03	11.4	7.5	13.2	80	0.2	1.1	9.0	22	2.25	0.045
K966283	Rock Chip	3.18	1.5	4.7	7.3	31	<0.1	4.3	1.9	545	2.21	6.6	1.1	14.3	78	<0.1	1.1	0.9	26	2.05	0.051
K966284	Rock Chip	0.28	1.0	12.5	15.3	45	0.3	13.1	7.4	599	2.51	63.1	17.4	11.1	27	0.2	1.4	4.4	35	0.42	0.060
K966285	Rock Chip	1.52	0.8	9.9	12.7	38	0.2	8.5	6.8	820	2.18	29.1	16.1	13.9	49	0.2	0.9	3.0	27	0.79	0.062
K966286	Rock Chip	2.38	0.8	4.3	9.4	34	<0.1	5.5	5.1	921	1.77	12.4	1.3	16.0	86	0.1	0.4	0.4	22	1.19	0.063
K966287	Rock Chip	1.17	0.9	2.6	5.7	34	<0.1	4.6	5.1	996	2.08	5.9	2.6	15.9	70	<0.1	0.5	0.4	24	2.01	0.064
K966288	Rock Chip	1.61	1.3	25.6	8.1	51	0.5	4.9	7.5	1218	2.63	19.9	8.9	16.2	42	0.2	1.0	3.6	17	1.55	0.055



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: **0890763 B.C. Ltd**
1600-609 Granville Street
Vancouver British Columbia V7Y 1C3 Canada

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Method	Analyte	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.1	0.01	0.05	1	0.5	0.2
K966271	Rock Chip	11	16	0.49	65	0.098	4	1.17	0.062	0.17	2.0	<0.01	2.5	0.2	<0.05	5	<0.5	<0.2
K966272	Rock Chip	16	14	0.50	114	0.086	2	1.35	0.049	0.16	1.4	<0.01	2.5	0.2	<0.05	5	<0.5	<0.2
K966273	Rock Chip	14	13	0.48	60	0.027	<1	1.49	0.040	0.17	0.9	<0.01	2.5	0.3	<0.05	5	<0.5	<0.2
K966274	Rock Chip	13	11	0.55	62	0.010	1	2.17	0.029	0.18	0.3	<0.01	2.9	0.3	<0.05	6	<0.5	<0.2
K966275	Rock Chip	16	11	0.67	87	0.019	2	2.06	0.039	0.20	0.4	<0.01	2.7	0.3	<0.05	6	<0.5	<0.2
K966276	Rock Chip	12	17	0.43	66	0.033	2	1.16	0.051	0.17	0.8	<0.01	1.8	0.2	<0.05	4	<0.5	<0.2
K966277	Rock Chip	12	15	0.53	64	0.044	1	1.37	0.056	0.20	1.1	<0.01	2.4	0.3	<0.05	5	<0.5	<0.2
K966278	Rock Chip	13	18	0.46	66	0.037	4	1.26	0.059	0.24	1.6	<0.01	2.1	0.4	0.30	4	<0.5	<0.2
K966279	Rock Chip	14	14	0.38	65	0.008	1	1.45	0.039	0.24	0.9	<0.01	2.2	0.3	0.06	4	<0.5	<0.2
K966280	Rock Chip	17	11	0.39	49	0.002	1	1.94	0.016	0.18	0.5	<0.01	2.2	0.3	<0.05	5	<0.5	<0.2
K966281	Rock Chip	21	12	0.47	35	0.006	1	2.12	0.019	0.18	0.8	<0.01	3.0	0.3	<0.05	13	<0.5	<0.2
K966282	Rock Chip	14	14	0.38	58	0.011	4	1.57	0.033	0.17	7.3	<0.01	2.2	0.3	0.11	5	<0.5	<0.2
K966283	Rock Chip	14	15	0.47	62	0.018	4	1.57	0.042	0.21	0.8	<0.01	2.5	0.3	0.05	5	<0.5	<0.2
K966284	Rock Chip	20	18	0.32	182	0.035	7	1.37	0.031	0.24	0.4	<0.01	3.3	0.3	<0.05	3	<0.5	<0.2
K966285	Rock Chip	22	11	0.34	172	0.013	5	1.52	0.039	0.30	0.3	<0.01	2.5	0.3	<0.05	5	<0.5	<0.2
K966286	Rock Chip	29	9	0.32	187	0.004	4	1.44	0.038	0.31	0.2	<0.01	2.4	0.2	<0.05	5	<0.5	<0.2
K966287	Rock Chip	24	9	0.44	132	0.009	4	1.71	0.040	0.34	0.6	<0.01	2.4	0.3	<0.05	6	<0.5	<0.2
K966288	Rock Chip	22	8	0.47	130	0.006	3	1.54	0.027	0.34	0.4	<0.01	2.2	0.3	<0.05	5	<0.5	<0.2



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: 0890763 B.C. Ltd
1600-609 Granville Street
Vancouver British Columbia V7Y 1C3 Canada

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QUALITY CONTROL REPORT

WHI17000918.1

Method	WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
K966171	Rock Chip	6.00	1.1	3.8	8.6	38	<0.1	4.2	5.7	667	2.48	6.7	3.4	13.1	47	<0.1	0.5	0.3	32	1.44	0.062
REP K966171	QC		1.3	3.6	9.0	38	<0.1	4.2	6.2	662	2.50	6.8	5.9	13.3	49	0.1	0.5	0.3	31	1.45	0.063
K966202	Rock Chip	2.97	1.8	4.6	7.6	25	<0.1	3.6	4.5	435	2.00	9.3	1.6	15.1	124	<0.1	1.5	0.5	28	1.57	0.042
REP K966202	QC		2.0	4.7	7.7	30	<0.1	3.6	4.7	431	2.06	9.7	2.8	15.1	129	<0.1	1.5	0.5	28	1.62	0.047
K966235	Rock Chip	2.13	1.0	2.9	7.9	37	<0.1	4.3	4.2	619	2.52	7.2	1.5	20.8	45	<0.1	1.5	0.2	37	1.43	0.067
REP K966235	QC		1.0	2.6	7.6	38	<0.1	4.1	4.2	657	2.57	6.7	1.5	19.6	43	0.1	1.4	0.3	37	1.43	0.069
K966266	Rock Chip	2.97	1.6	3.9	6.2	30	<0.1	4.1	4.5	431	2.37	6.6	<0.5	12.8	60	<0.1	0.6	0.5	37	0.78	0.051
REP K966266	QC		1.5	3.8	6.1	31	<0.1	4.0	4.1	430	2.33	6.9	<0.5	13.7	61	<0.1	0.6	0.5	36	0.77	0.054
Core Reject Duplicates																					
K966162	Rock Chip	3.90	1.2	17.1	16.9	62	0.3	4.6	6.4	722	2.52	100.2	18.3	14.0	41	0.6	0.9	1.6	24	1.87	0.068
DUP K966162	QC		1.1	14.5	16.8	52	0.3	4.7	6.2	728	2.43	92.9	20.6	13.6	37	0.6	0.9	1.3	23	1.77	0.067
K966196	Rock Chip	3.70	1.5	5.6	11.4	36	<0.1	3.3	12.1	605	2.51	15.4	168.6	13.4	65	0.1	0.6	0.6	32	1.46	0.060
DUP K966196	QC		1.8	6.0	11.6	39	<0.1	4.0	10.6	634	2.42	15.9	12.0	12.8	71	0.1	0.8	0.6	31	1.41	0.064
K966230	Rock Chip	3.02	0.5	16.1	16.0	39	<0.1	4.5	8.3	575	2.17	18.1	24.2	21.0	47	0.3	0.7	4.5	26	2.12	0.065
DUP K966230	QC		0.5	15.6	15.3	36	<0.1	4.2	8.1	572	2.16	16.6	20.7	20.4	45	0.3	0.6	4.4	26	2.11	0.069
K966264	Rock Chip	2.62	1.3	4.0	6.6	39	<0.1	4.8	3.2	554	2.50	6.3	1.6	10.0	72	<0.1	1.0	3.4	37	1.11	0.068
DUP K966264	QC		1.3	3.6	6.7	41	<0.1	4.5	3.1	563	2.60	7.3	1.2	11.4	77	0.1	1.1	3.1	39	1.17	0.070
Reference Materials																					
STD DS11	Standard		12.4	136.0	134.9	350	1.7	72.8	12.0	1006	3.14	40.2	73.5	7.4	65	2.4	7.8	11.6	47	1.03	0.068
STD DS11	Standard		14.9	156.1	137.6	367	1.7	81.5	13.9	1061	3.14	43.9	68.0	8.0	67	2.2	8.3	12.6	49	1.07	0.075
STD DS11	Standard		13.0	153.7	128.3	344	1.7	86.2	15.7	1069	3.27	43.2	68.5	6.9	65	2.2	7.4	11.5	51	1.06	0.066
STD DS11	Standard		14.0	158.7	130.4	330	1.7	79.8	15.3	1038	3.20	40.8	76.3	7.3	67	2.2	7.7	11.0	49	1.08	0.068
STD DS11	Standard		13.5	147.2	135.0	340	1.8	77.7	13.9	1044	3.14	42.8	98.1	7.3	69	2.6	7.2	12.1	49	1.07	0.073
STD OXC129	Standard		1.2	26.8	5.8	40	<0.1	71.5	19.8	419	3.03	<0.5	181.6	1.8	178	<0.1	<0.1	<0.1	50	0.69	0.097
STD OXC129	Standard		1.2	29.2	6.1	44	<0.1	81.8	20.2	436	3.07	<0.5	200.8	1.9	196	<0.1	<0.1	<0.1	51	0.70	0.102
STD OXC129	Standard		1.3	28.8	6.3	40	<0.1	84.2	21.1	450	3.16	0.5	196.5	1.7	178	<0.1	<0.1	<0.1	53	0.70	0.096
STD OXC129	Standard		1.2	27.8	5.6	38	<0.1	75.0	20.2	451	3.13	<0.5	193.1	1.7	189	<0.1	<0.1	<0.1	52	0.79	0.101
STD OXC129	Standard		1.2	25.8	5.6	44	<0.1	75.7	20.2	405	3.07	0.7	189.8	1.5	177	<0.1	<0.1	<0.1	50	0.67	0.104



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

Project: Rude Creek
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QUALITY CONTROL REPORT

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Method	Analyte	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
K966171	Rock Chip	18	13	0.49	73	0.025	6	1.29	0.051	0.24	0.5	<0.01	2.8	0.3	<0.05	5	<0.5	<0.2
REP K966171	QC	18	14	0.48	74	0.028	5	1.28	0.051	0.24	0.6	<0.01	3.0	0.3	<0.05	6	<0.5	<0.2
K966202	Rock Chip	14	15	0.42	142	0.051	2	1.37	0.040	0.22	0.9	<0.01	2.7	0.3	<0.05	4	<0.5	<0.2
REP K966202	QC	15	16	0.43	147	0.054	1	1.39	0.041	0.23	0.9	<0.01	2.7	0.3	<0.05	5	<0.5	<0.2
K966235	Rock Chip	21	12	0.51	82	0.054	4	1.51	0.037	0.19	0.7	<0.01	3.7	0.3	<0.05	5	<0.5	<0.2
REP K966235	QC	21	12	0.52	80	0.051	4	1.47	0.038	0.19	0.6	<0.01	3.4	0.3	<0.05	6	<0.5	<0.2
K966266	Rock Chip	13	15	0.48	104	0.107	3	1.07	0.072	0.21	1.6	<0.01	2.6	0.2	<0.05	4	<0.5	<0.2
REP K966266	QC	14	15	0.47	103	0.112	3	1.07	0.070	0.21	1.6	<0.01	2.8	0.2	<0.05	4	<0.5	<0.2
Core Reject Duplicates																		
K966162	Rock Chip	22	9	0.36	109	0.004	8	1.24	0.035	0.29	0.7	<0.01	3.1	0.4	0.05	5	<0.5	<0.2
DUP K966162	QC	21	9	0.34	100	0.004	10	1.19	0.034	0.28	0.6	<0.01	2.5	0.4	<0.05	5	<0.5	<0.2
K966196	Rock Chip	15	15	0.48	60	0.078	4	1.39	0.083	0.24	1.0	<0.01	3.1	0.3	0.12	5	<0.5	<0.2
DUP K966196	QC	14	17	0.45	60	0.083	2	1.34	0.070	0.22	1.2	<0.01	3.3	0.3	0.12	5	<0.5	<0.2
K966230	Rock Chip	24	8	0.54	74	<0.001	3	2.12	0.008	0.16	0.3	<0.01	3.1	0.2	<0.05	7	<0.5	<0.2
DUP K966230	QC	26	8	0.54	74	<0.001	3	2.09	0.008	0.16	0.3	<0.01	2.9	0.2	<0.05	7	<0.5	<0.2
K966264	Rock Chip	12	15	0.57	66	0.100	4	1.30	0.053	0.17	2.1	<0.01	2.9	0.3	<0.05	5	<0.5	<0.2
DUP K966264	QC	14	14	0.59	75	0.104	3	1.39	0.064	0.20	1.9	<0.01	3.1	0.3	<0.05	6	<0.5	<0.2
Reference Materials																		
STD DS11	Standard	18	55	0.83	362	0.088	5	1.12	0.071	0.40	3.0	0.23	2.9	4.5	0.28	5	1.7	4.3
STD DS11	Standard	20	63	0.85	353	0.103	7	1.19	0.075	0.41	3.1	0.26	3.8	5.0	0.27	5	2.5	4.5
STD DS11	Standard	19	61	0.85	367	0.093	7	1.20	0.075	0.41	2.3	0.23	3.5	4.2	0.29	5	2.4	4.4
STD DS11	Standard	20	58	0.84	381	0.099	9	1.24	0.075	0.41	3.0	0.25	3.5	4.8	0.27	5	2.1	4.4
STD DS11	Standard	19	61	0.84	388	0.094	8	1.16	0.074	0.41	2.8	0.29	3.1	5.0	0.27	5	2.2	4.7
STD OXC129	Standard	12	49	1.51	51	0.400	<1	1.55	0.584	0.38	<0.1	<0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	13	55	1.56	50	0.425	<1	1.58	0.591	0.37	<0.1	<0.01	1.4	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	12	56	1.57	52	0.415	<1	1.60	0.602	0.37	<0.1	<0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	13	51	1.55	53	0.421	1	1.69	0.601	0.37	<0.1	<0.01	0.9	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	12	53	1.53	49	0.384	<1	1.53	0.588	0.36	<0.1	<0.01	0.7	<0.1	<0.05	5	<0.5	<0.2



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

Client: 0890763 B.C. Ltd
1600-609 Granville Street
Vancouver British Columbia V7Y 1C3 Canada

Project: Rude Creek
Report Date: October 31, 2017

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QUALITY CONTROL REPORT

WHI17000918.1

		WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
STD OXC129 Expected			1.3	28	6.3	42.9		79.5	20.3	421	3.065	0.6	195	1.9					51	0.665	0.102
STD DS11 Expected			14.6	156	138	345	1.71	81.9	14.2	1055	3.2082	42.8	79	7.65	67.3	2.37	8.74	12.2	50	1.063	0.0701
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
Prep Wash																					
ROCK-WHI	Prep Blank		0.8	5.9	1.7	40	<0.1	1.6	4.2	572	1.62	1.2	0.9	1.8	36	<0.1	<0.1	<0.1	18	0.77	0.039
ROCK-WHI	Prep Blank		0.9	5.5	2.3	36	<0.1	1.9	4.3	574	1.68	0.9	1.3	1.7	32	<0.1	<0.1	<0.1	20	0.76	0.034



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

Client: 0890763 B.C. Ltd
1600-609 Granville Street
Vancouver British Columbia V7Y 1C3 Canada

Project: Rude Creek
Report Date: October 31, 2017

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QUALITY CONTROL REPORT

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		AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
STD OXC129 Expected		13	52	1.545	50	0.4	1	1.58	0.6	0.37			1.1			5.6		
STD DS11 Expected		18.6	61.5	0.85	385	0.0976		1.1795	0.0762	0.4	2.9	0.3	3.4	4.9	0.2835	5.1	1.9	4.56
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																		
ROCK-WHI	Prep Blank	6	3	0.52	51	0.071	<1	1.08	0.060	0.08	<0.1	<0.01	3.3	<0.1	0.09	5	<0.5	<0.2
ROCK-WHI	Prep Blank	6	2	0.55	57	0.069	3	1.14	0.078	0.08	0.1	<0.01	3.1	<0.1	0.08	4	<0.5	<0.2



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

Client: **0890763 B.C. Ltd**
1600-609 Granville Street
Vancouver British Columbia V7Y 1C3 Canada

Submitted By: Bart Jaworski
Receiving Lab: Canada-Whitehorse
Received: September 25, 2017
Report Date: October 24, 2017
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CERTIFICATE OF ANALYSIS

WHI17000922.1

CLIENT JOB INFORMATION

Project: Rude Creek
Shipment ID:
P.O. Number
Number of Samples: 62

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	62	Crush, split and pulverize 250 g rock to 200 mesh			WHI
AQ202	62	1:1:1 Aqua Regia digestion ICP-MS analysis	30	Completed	VAN
SHP01	62	Per sample shipping charges for branch shipments			VAN

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 60 days

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.

Invoice To: 0890763 B.C. Ltd
1600-609 Granville Street
Vancouver British Columbia V7Y 1C3
Canada

CC:



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. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: 0890763 B.C. Ltd
1600-609 Granville Street
Vancouver British Columbia V7Y 1C3 Canada

Project: Rude Creek
Report Date: October 24, 2017

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CERTIFICATE OF ANALYSIS

WHI17000922.1

Method	WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
K966289	Rock Chip	2.08	0.9	7.8	8.9	37	0.3	3.7	6.0	770	1.67	11.2	4.2	17.1	51	0.2	0.5	2.2	19	1.65	0.055
K966290	Rock Chip	2.45	1.0	5.7	8.4	37	0.3	3.8	7.7	769	1.60	13.3	2.8	15.9	60	<0.1	0.7	1.7	15	1.81	0.051
K966291	Rock Chip	2.02	1.0	8.8	9.4	36	0.3	3.9	8.0	687	1.63	13.0	3.8	16.4	65	0.1	0.6	2.1	16	1.86	0.054
K966292	Rock Chip	2.35	0.9	12.7	12.7	37	0.2	3.9	6.9	724	1.90	23.5	20.1	14.9	122	0.2	0.7	1.8	25	2.10	0.055
K966293	Rock Chip	2.07	0.9	8.2	8.6	35	0.1	3.9	4.6	688	1.91	11.2	2.0	16.8	108	0.1	0.6	0.6	25	1.36	0.052
K966294	Rock Chip	2.07	1.0	6.2	9.3	30	<0.1	3.5	5.4	510	1.56	10.1	2.5	16.7	163	0.2	0.6	0.4	27	1.22	0.050
K966295	Rock Chip	1.90	1.3	11.7	15.2	120	0.2	3.4	7.7	499	1.57	18.3	22.0	17.0	78	1.5	0.7	0.7	29	1.68	0.052
K966296	Rock Chip	1.78	1.0	5.8	7.2	26	0.1	3.1	6.0	488	1.75	12.1	22.4	15.6	39	0.2	0.5	0.8	29	1.19	0.053
K966297	Rock Chip	2.11	0.9	7.7	7.8	28	<0.1	3.4	5.6	536	1.80	11.3	31.4	15.5	35	<0.1	0.4	1.2	28	1.34	0.053
K966298	Rock Chip	1.49	0.8	6.8	6.9	29	0.1	3.2	6.5	396	1.82	12.2	20.6	15.4	50	<0.1	0.5	0.5	29	1.14	0.051
K966299	Rock Chip	2.44	0.8	5.2	6.9	25	<0.1	3.1	5.2	361	1.61	9.0	<0.5	14.0	61	<0.1	0.6	0.3	27	1.16	0.042
K966300	Rock Chip	2.45	0.8	6.0	8.8	29	0.1	3.3	5.8	392	1.71	10.9	4.6	16.5	71	0.3	0.5	0.9	29	0.83	0.045
K966351	Rock Chip	1.80	0.6	5.7	17.4	28	0.7	3.2	4.7	382	1.62	18.4	140.2	17.4	31	0.2	1.0	20.2	27	0.86	0.052
K966352	Rock Chip	1.06	1.9	6.5	7.8	29	0.1	3.6	6.7	441	1.83	10.6	11.4	16.0	36	0.1	0.4	1.1	26	1.15	0.056
K966353	Rock Chip	1.06	1.4	5.1	18.2	32	0.1	3.8	5.9	515	1.95	8.8	8.9	16.2	43	0.2	0.5	1.0	22	1.59	0.057
K966354	Rock Chip	2.10	8.8	3.2	17.6	49	0.2	3.3	4.2	609	1.89	15.6	2.2	15.6	39	0.7	0.3	0.4	13	2.21	0.057
K966355	Rock Chip	2.48	1.8	2.7	7.8	30	<0.1	3.8	4.3	497	1.65	5.4	<0.5	14.5	35	<0.1	0.5	0.2	20	1.44	0.054
K966356	Rock Chip	3.27	1.4	8.1	7.7	35	<0.1	4.1	3.7	628	2.26	9.7	0.6	15.9	37	<0.1	0.9	0.4	28	1.26	0.050
K966357	Rock Chip	1.92	1.2	9.1	10.7	37	<0.1	4.1	4.6	532	2.15	9.3	1.1	14.6	35	0.1	1.2	0.4	31	0.97	0.061
K966358	Rock Chip	1.40	1.2	7.4	10.4	33	0.1	3.3	4.4	498	2.02	9.8	14.8	14.2	32	0.2	1.0	5.4	35	0.91	0.063
K966359	Rock Chip	2.94	1.3	7.7	9.0	34	<0.1	4.3	6.9	612	2.01	13.3	5.1	14.1	60	0.2	0.7	4.1	32	1.22	0.062
K966360	Rock Chip	1.70	3.5	24.1	9.3	36	0.1	3.8	5.1	642	2.47	71.8	21.7	14.6	29	0.1	1.3	2.8	22	1.15	0.059
K966361	Rock Chip	2.27	0.9	12.0	8.4	35	0.1	3.6	5.2	558	2.32	26.8	8.0	15.9	31	<0.1	0.6	1.7	23	1.29	0.054
K966362	Rock Chip	1.37	1.3	10.0	8.0	33	0.1	3.7	4.6	529	1.89	14.4	4.8	15.4	31	0.1	0.8	2.6	23	1.33	0.058
K966363	Rock Chip	1.77	1.2	11.7	12.2	29	0.1	4.1	5.0	519	1.87	12.9	5.0	14.0	34	<0.1	0.9	0.6	27	1.13	0.048
K966364	Rock Chip	2.50	1.3	3.3	7.5	30	<0.1	3.9	4.9	467	2.05	8.4	2.3	14.6	39	<0.1	1.1	0.7	34	0.89	0.058
K966365	Rock Chip	2.04	1.0	2.7	15.0	27	<0.1	3.2	3.8	361	1.88	7.4	1.2	13.3	65	<0.1	0.8	0.2	35	1.02	0.051
K966366	Rock Chip	2.35	1.3	6.7	6.4	27	<0.1	3.7	5.4	477	2.18	10.2	88.6	14.9	32	<0.1	0.9	0.4	35	0.85	0.055
K966367	Rock Chip	2.85	1.4	3.3	6.1	26	<0.1	4.0	3.2	441	2.00	7.3	2.7	13.0	32	<0.1	1.1	0.1	34	0.88	0.057
K966368	Rock Chip	2.38	1.1	2.3	5.0	33	<0.1	4.4	5.5	511	2.33	6.7	2.5	14.8	32	<0.1	0.7	<0.1	42	0.90	0.058



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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: **0890763 B.C. Ltd**
1600-609 Granville Street
Vancouver British Columbia V7Y 1C3 Canada

Project: Rude Creek
Report Date: October 24, 2017

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Method Analyte	AQ202		AQ202		AQ202		AQ202		AQ202		AQ202		AQ202		AQ202		AQ202		AQ202	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	TI	S	Ga	Se	Te	ppm	ppm	ppm
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.01	0.05	1	0.5	0.2			
K966289	Rock Chip	24	8	0.34	84	0.003	1	1.05	0.030	0.19	0.5	<0.01	2.2	0.2	<0.05	4	0.5	<0.2		
K966290	Rock Chip	22	6	0.33	75	0.004	4	1.06	0.037	0.22	0.5	<0.01	1.9	0.1	<0.05	4	<0.5	<0.2		
K966291	Rock Chip	20	8	0.30	74	0.003	3	1.15	0.026	0.20	0.4	<0.01	1.7	0.2	<0.05	4	<0.5	<0.2		
K966292	Rock Chip	21	7	0.38	72	0.006	3	2.22	0.020	0.22	0.3	<0.01	2.0	0.2	<0.05	7	<0.5	<0.2		
K966293	Rock Chip	23	8	0.41	98	0.004	2	1.34	0.031	0.20	0.3	<0.01	2.5	0.2	<0.05	5	<0.5	<0.2		
K966294	Rock Chip	22	7	0.30	92	0.004	<1	1.70	0.028	0.17	0.3	<0.01	2.2	0.2	<0.05	7	<0.5	<0.2		
K966295	Rock Chip	22	7	0.27	80	0.003	3	1.50	0.028	0.21	0.3	0.02	1.8	0.2	<0.05	7	<0.5	<0.2		
K966296	Rock Chip	22	6	0.26	63	0.002	3	1.18	0.025	0.22	0.3	0.06	1.7	0.3	<0.05	6	<0.5	<0.2		
K966297	Rock Chip	22	8	0.33	58	0.004	3	1.13	0.039	0.23	0.4	<0.01	1.9	0.2	<0.05	5	<0.5	<0.2		
K966298	Rock Chip	18	8	0.38	46	0.005	1	1.81	0.033	0.18	0.3	0.05	1.8	0.2	<0.05	6	<0.5	<0.2		
K966299	Rock Chip	15	8	0.36	45	0.021	3	1.73	0.031	0.17	0.4	0.02	1.9	0.2	<0.05	6	<0.5	<0.2		
K966300	Rock Chip	18	8	0.37	55	0.008	2	1.47	0.031	0.17	0.4	0.02	1.9	0.2	<0.05	6	<0.5	<0.2		
K966351	Rock Chip	20	8	0.33	60	0.005	4	0.99	0.040	0.19	0.6	<0.01	2.0	0.2	<0.05	5	<0.5	<0.2		
K966352	Rock Chip	20	8	0.38	63	0.005	2	1.02	0.033	0.18	0.6	<0.01	2.0	0.2	<0.05	5	<0.5	<0.2		
K966353	Rock Chip	22	7	0.34	74	0.004	5	1.02	0.033	0.20	0.4	<0.01	2.1	0.2	<0.05	5	<0.5	<0.2		
K966354	Rock Chip	22	5	0.16	73	0.002	5	0.82	0.017	0.23	0.4	<0.01	1.9	0.3	<0.05	4	<0.5	<0.2		
K966355	Rock Chip	19	9	0.33	69	0.010	4	0.94	0.033	0.18	0.9	<0.01	1.7	0.2	<0.05	4	<0.5	<0.2		
K966356	Rock Chip	17	10	0.55	42	0.015	2	1.20	0.037	0.16	0.7	<0.01	2.4	0.2	<0.05	6	<0.5	<0.2		
K966357	Rock Chip	14	11	0.53	68	0.055	3	1.20	0.052	0.16	0.9	<0.01	2.1	0.2	<0.05	5	<0.5	<0.2		
K966358	Rock Chip	15	10	0.48	66	0.062	2	1.26	0.048	0.19	0.9	0.01	2.6	0.2	<0.05	6	<0.5	<0.2		
K966359	Rock Chip	19	10	0.50	63	0.015	1	1.21	0.033	0.16	0.7	<0.01	2.5	0.3	<0.05	6	<0.5	<0.2		
K966360	Rock Chip	24	7	0.45	57	0.004	2	1.28	0.021	0.22	0.4	<0.01	2.1	0.3	<0.05	7	<0.5	<0.2		
K966361	Rock Chip	23	7	0.45	47	0.004	4	1.16	0.023	0.20	0.2	<0.01	2.2	0.3	<0.05	6	<0.5	<0.2		
K966362	Rock Chip	19	10	0.42	44	0.014	2	1.04	0.033	0.19	0.6	<0.01	2.1	0.2	<0.05	5	<0.5	<0.2		
K966363	Rock Chip	14	10	0.42	47	0.036	<1	1.10	0.045	0.18	0.8	<0.01	2.1	0.2	<0.05	5	<0.5	<0.2		
K966364	Rock Chip	14	12	0.52	73	0.082	<1	1.20	0.042	0.22	1.1	<0.01	2.5	0.3	<0.05	5	<0.5	<0.2		
K966365	Rock Chip	12	10	0.46	60	0.067	<1	1.60	0.039	0.19	0.6	<0.01	2.5	0.2	<0.05	6	<0.5	<0.2		
K966366	Rock Chip	17	11	0.48	68	0.069	2	1.15	0.047	0.22	0.8	0.01	2.8	0.3	<0.05	5	<0.5	<0.2		
K966367	Rock Chip	14	13	0.45	40	0.069	2	1.10	0.060	0.18	1.0	<0.01	2.3	0.2	<0.05	4	<0.5	<0.2		
K966368	Rock Chip	19	13	0.56	132	0.104	<1	1.13	0.064	0.31	0.8	<0.01	3.2	0.3	<0.05	5	0.6	<0.2		

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.



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: **0890763 B.C. Ltd**
1600-609 Granville Street
Vancouver British Columbia V7Y 1C3 Canada

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Method	WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
K966369	Rock Chip	2.94	1.7	4.6	6.2	30	<0.1	4.1	4.0	460	2.20	7.9	3.8	12.6	37	<0.1	1.1	0.2	39	0.84	0.058
K966370	Rock Chip	4.56	1.5	5.4	7.1	35	<0.1	4.5	5.2	536	2.18	12.0	<0.5	16.5	58	<0.1	1.2	0.1	43	1.02	0.058
K966371	Rock Chip	3.47	1.0	3.5	6.3	41	<0.1	4.3	5.3	562	2.10	7.7	<0.5	14.6	47	<0.1	0.9	<0.1	41	0.85	0.053
K966372	Rock Chip	1.91	1.8	18.3	7.6	25	<0.1	4.1	4.1	439	1.95	20.0	4.9	17.7	20	0.2	0.9	0.4	29	0.54	0.042
K966373	Rock Chip	2.53	1.7	14.4	8.0	32	0.2	4.2	5.7	555	2.28	21.8	26.8	14.9	35	0.1	0.8	7.6	37	0.80	0.052
K966374	Rock Chip	3.06	1.4	2.9	5.5	37	<0.1	4.4	5.3	538	2.18	6.6	16.7	15.2	28	<0.1	0.9	1.3	41	0.68	0.053
K966375	Rock Chip	3.97	1.6	3.6	5.7	39	<0.1	4.6	5.9	590	2.28	9.3	2.1	16.7	28	<0.1	0.8	1.2	44	0.68	0.057
K966376	Rock Chip	2.86	1.9	3.2	6.5	40	<0.1	5.1	5.6	591	2.22	6.1	<0.5	17.1	28	<0.1	1.0	0.2	43	0.72	0.060
K966377	Rock Chip	2.58	1.1	2.7	5.6	43	<0.1	4.2	5.7	567	2.14	6.8	<0.5	14.1	29	<0.1	1.0	0.2	41	0.66	0.054
K966378	Rock Chip	2.97	0.7	1.9	5.6	36	<0.1	2.7	4.7	505	1.95	5.0	0.7	13.1	35	<0.1	0.9	0.1	39	0.70	0.048
K966379	Rock Chip	4.19	1.2	2.4	6.3	38	<0.1	4.6	5.2	547	2.21	7.4	<0.5	16.2	39	<0.1	1.0	<0.1	41	0.82	0.053
K966380	Rock Chip	3.50	1.9	3.4	7.2	45	<0.1	4.6	5.5	542	2.07	7.7	1.2	14.4	39	0.2	1.0	<0.1	40	0.88	0.047
K966381	Rock Chip	3.30	1.2	3.0	7.0	41	<0.1	4.2	5.3	554	2.15	7.8	<0.5	16.1	38	<0.1	0.8	0.4	41	0.82	0.051
K966382	Rock Chip	4.34	1.5	4.6	7.4	40	0.1	4.4	6.0	548	2.23	10.8	4.9	17.0	32	<0.1	1.2	1.9	39	0.79	0.058
K966383	Rock Chip	3.20	1.2	3.0	8.7	43	<0.1	4.2	5.7	594	2.10	8.5	<0.5	14.8	30	<0.1	1.0	0.4	39	0.71	0.049
K966384	Rock Chip	5.03	1.4	3.0	8.0	45	<0.1	3.9	6.1	596	2.13	7.4	<0.5	15.6	36	<0.1	1.1	0.4	40	0.83	0.051
K966385	Rock Chip	4.43	1.8	3.2	6.9	45	<0.1	4.7	5.5	568	2.21	6.0	<0.5	15.4	28	0.2	1.1	<0.1	44	0.63	0.049
K966386	Rock Chip	3.87	0.8	2.4	6.8	45	<0.1	3.7	5.0	521	2.10	6.3	<0.5	14.3	29	<0.1	1.0	0.1	43	0.57	0.050
K966387	Rock Chip	3.16	1.0	2.6	7.1	44	<0.1	4.4	5.2	555	2.20	6.2	1.0	15.4	31	0.1	1.2	0.1	45	0.62	0.054
K966388	Rock Chip	3.44	1.0	2.0	8.2	41	<0.1	4.3	5.9	603	2.13	8.4	1.1	13.8	45	<0.1	2.1	<0.1	40	0.81	0.053
K966389	Rock Chip	3.30	1.0	2.5	7.5	46	<0.1	3.9	4.3	608	2.15	9.4	1.9	12.6	40	0.3	2.0	0.1	42	0.79	0.051
K966390	Rock Chip	3.57	1.4	4.8	7.8	38	<0.1	2.9	2.5	501	1.98	8.3	1.3	12.3	37	0.1	2.0	<0.1	34	0.99	0.054
K966391	Rock Chip	2.59	1.1	10.6	8.7	25	<0.1	3.2	1.9	492	1.29	12.4	3.9	12.3	47	0.2	1.4	0.2	33	0.83	0.050
K966392	Rock Chip	3.80	1.7	26.3	9.7	36	<0.1	5.6	3.7	783	2.41	20.1	2.7	13.9	50	0.2	2.6	0.4	63	0.97	0.072
K966393	Rock Chip	4.00	1.3	10.4	7.8	30	<0.1	4.5	3.3	571	2.06	15.3	8.2	14.7	55	<0.1	2.4	0.2	45	0.92	0.058
K966394	Rock Chip	5.05	5.4	30.0	16.8	66	0.5	4.8	22.8	1049	4.29	164.9	112.1	11.6	42	0.5	2.9	1.6	59	0.58	0.046
K966395	Rock Chip	4.55	3.4	41.6	15.1	57	0.4	5.7	16.1	983	3.38	143.0	71.6	12.4	36	0.3	2.8	2.3	51	0.58	0.051
K966396	Rock Chip	3.52	3.1	36.7	9.0	50	0.4	6.2	21.0	823	3.35	91.0	118.2	12.9	44	<0.1	2.9	4.2	44	0.72	0.054
K966397	Rock Chip	3.75	0.9	5.1	5.6	42	<0.1	4.0	5.1	670	2.40	19.3	8.9	13.2	50	<0.1	2.3	0.5	38	0.99	0.054
K966398	Rock Chip	4.36	1.0	8.4	8.8	36	0.1	3.7	9.4	504	2.04	40.5	13.8	14.5	38	0.1	2.0	0.7	35	0.78	0.053



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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

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	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	TI	S	Ga	Se	Te	ppm	ppm	ppm
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2			
K966369	Rock Chip	14	15	0.50	80	0.092	1	1.17	0.057	0.20	1.1	0.02	3.1	0.2	<0.05	5	<0.5	<0.2		
K966370	Rock Chip	20	12	0.53	139	0.131	5	1.38	0.058	0.33	2.4	0.01	3.9	0.5	<0.05	6	0.5	<0.2		
K966371	Rock Chip	20	11	0.55	183	0.131	<1	1.21	0.058	0.42	1.8	<0.01	3.8	0.6	<0.05	5	<0.5	<0.2		
K966372	Rock Chip	16	14	0.41	54	0.050	<1	0.93	0.042	0.18	2.6	<0.01	2.3	0.3	<0.05	4	<0.5	<0.2		
K966373	Rock Chip	20	12	0.51	102	0.081	<1	1.20	0.043	0.28	1.8	<0.01	3.8	0.4	<0.05	6	<0.5	<0.2		
K966374	Rock Chip	20	13	0.56	179	0.130	<1	0.99	0.065	0.42	1.7	<0.01	3.7	0.5	<0.05	4	<0.5	<0.2		
K966375	Rock Chip	24	13	0.56	191	0.137	<1	0.99	0.078	0.44	3.4	<0.01	3.8	0.6	<0.05	4	<0.5	<0.2		
K966376	Rock Chip	22	15	0.56	150	0.132	<1	0.97	0.064	0.41	2.5	0.01	3.8	0.5	<0.05	4	<0.5	<0.2		
K966377	Rock Chip	21	12	0.54	159	0.127	<1	0.95	0.066	0.42	1.2	<0.01	3.4	0.5	<0.05	5	<0.5	<0.2		
K966378	Rock Chip	20	8	0.49	175	0.120	<1	1.08	0.061	0.38	0.6	<0.01	3.6	0.5	<0.05	5	0.6	<0.2		
K966379	Rock Chip	20	13	0.53	155	0.132	<1	1.22	0.071	0.38	2.4	<0.01	3.8	0.5	<0.05	5	<0.5	<0.2		
K966380	Rock Chip	22	14	0.51	177	0.131	1	1.17	0.071	0.39	1.9	<0.01	2.8	0.5	<0.05	5	<0.5	<0.2		
K966381	Rock Chip	22	13	0.53	198	0.139	<1	1.13	0.067	0.41	2.1	<0.01	3.6	0.5	<0.05	5	<0.5	<0.2		
K966382	Rock Chip	22	15	0.53	153	0.114	<1	1.06	0.057	0.35	2.0	<0.01	2.7	0.4	<0.05	5	<0.5	<0.2		
K966383	Rock Chip	22	13	0.54	173	0.127	<1	0.99	0.062	0.37	1.7	<0.01	2.7	0.4	<0.05	4	<0.5	<0.2		
K966384	Rock Chip	24	14	0.53	176	0.124	<1	1.07	0.067	0.38	1.4	<0.01	3.3	0.4	<0.05	5	<0.5	<0.2		
K966385	Rock Chip	22	16	0.55	210	0.141	<1	0.99	0.085	0.44	1.9	<0.01	2.5	0.5	<0.05	5	<0.5	<0.2		
K966386	Rock Chip	23	11	0.53	261	0.155	<1	0.99	0.099	0.48	0.9	<0.01	2.6	0.5	<0.05	4	<0.5	<0.2		
K966387	Rock Chip	24	12	0.55	226	0.144	<1	1.01	0.094	0.45	2.1	<0.01	3.3	0.5	<0.05	4	<0.5	<0.2		
K966388	Rock Chip	14	11	0.57	83	0.114	<1	1.21	0.083	0.34	0.9	<0.01	3.0	0.4	<0.05	5	<0.5	<0.2		
K966389	Rock Chip	15	13	0.53	65	0.123	<1	1.18	0.102	0.47	1.1	<0.01	3.7	0.6	<0.05	5	<0.5	<0.2		
K966390	Rock Chip	11	12	0.55	46	0.097	<1	1.23	0.065	0.21	1.2	0.01	2.4	0.3	<0.05	6	<0.5	<0.2		
K966391	Rock Chip	15	9	0.32	56	0.053	<1	1.15	0.068	0.20	1.6	<0.01	3.1	0.3	<0.05	5	0.6	<0.2		
K966392	Rock Chip	19	19	0.59	64	0.096	<1	1.56	0.072	0.22	3.1	<0.01	5.6	0.4	<0.05	8	0.6	<0.2		
K966393	Rock Chip	19	13	0.51	66	0.112	2	1.33	0.077	0.28	3.3	0.01	3.8	0.4	<0.05	6	0.6	<0.2		
K966394	Rock Chip	19	11	0.94	81	0.057	<1	2.09	0.038	0.32	4.5	0.03	4.6	0.8	0.36	13	1.0	<0.2		
K966395	Rock Chip	21	10	0.71	72	0.052	<1	1.69	0.045	0.29	5.2	0.02	3.6	0.7	0.24	10	<0.5	<0.2		
K966396	Rock Chip	17	11	0.72	42	0.045	<1	1.99	0.035	0.25	4.8	0.03	3.4	0.5	0.29	10	<0.5	<0.2		
K966397	Rock Chip	15	8	0.74	34	0.039	2	1.90	0.037	0.25	1.1	0.01	2.9	0.4	<0.05	11	0.6	<0.2		
K966398	Rock Chip	12	9	0.52	49	0.060	3	1.46	0.065	0.28	1.1	0.01	2.8	0.5	0.20	7	<0.5	<0.2		



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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: **0890763 B.C. Ltd**
1600-609 Granville Street
Vancouver British Columbia V7Y 1C3 Canada

Project: Rude Creek
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CERTIFICATE OF ANALYSIS

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Method	WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
K966399	Rock Chip	3.63	1.8	29.9	10.3	85	0.7	7.4	16.6	1392	3.41	121.7	82.7	12.7	95	0.2	5.0	7.9	50	1.71	0.045
K966400	Rock Chip	3.74	0.9	11.2	10.0	47	0.2	3.3	7.6	567	1.85	49.7	44.7	12.6	98	0.2	3.3	1.3	28	1.19	0.050



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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

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Client: **0890763 B.C. Ltd**
1600-609 Granville Street
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CERTIFICATE OF ANALYSIS

WHI17000922.1

Method	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
K966399	Rock Chip	18	8	1.00	35	0.076	<1	2.48	0.034	0.18	1.5	0.03	4.0	0.5	0.26	18	<0.5	<0.2
K966400	Rock Chip	11	6	0.53	39	0.084	1	1.66	0.069	0.20	1.0	0.01	2.7	0.4	0.22	8	<0.5	<0.2



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

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QUALITY CONTROL REPORT

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Method	WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
K966290	Rock Chip	2.45	1.0	5.7	8.4	37	0.3	3.8	7.7	769	1.60	13.3	2.8	15.9	60	<0.1	0.7	1.7	15	1.81	0.051
REP K966290	QC		0.9	6.1	8.3	36	0.3	3.6	7.3	769	1.60	13.3	1.1	16.3	58	<0.1	0.7	1.6	15	1.82	0.048
K966370	Rock Chip	4.56	1.5	5.4	7.1	35	<0.1	4.5	5.2	536	2.18	12.0	<0.5	16.5	58	<0.1	1.2	0.1	43	1.02	0.058
REP K966370	QC		1.2	5.9	6.9	32	<0.1	4.1	5.0	540	2.17	11.0	<0.5	15.7	57	0.1	1.1	0.1	43	1.01	0.056
REP K966399	QC		1.9	29.0	11.5	89	0.7	6.4	16.7	1324	3.32	119.4	88.4	13.6	103	0.4	4.1	8.7	47	1.61	0.047
Core Reject Duplicates																					
K966365	Rock Chip	2.04	1.0	2.7	15.0	27	<0.1	3.2	3.8	361	1.88	7.4	1.2	13.3	65	<0.1	0.8	0.2	35	1.02	0.051
DUP K966365	QC		1.2	2.7	15.3	28	<0.1	3.6	4.1	364	1.90	7.4	0.5	14.6	68	<0.1	0.9	0.2	34	1.01	0.051
K966399	Rock Chip	3.63	1.8	29.9	10.3	85	0.7	7.4	16.6	1392	3.41	121.7	82.7	12.7	95	0.2	5.0	7.9	50	1.71	0.045
DUP K966399	QC		1.8	27.8	11.3	88	0.7	6.7	15.6	1324	3.31	120.1	155.3	13.5	96	0.3	4.2	8.3	47	1.66	0.050
Reference Materials																					
STD DS11	Standard		14.2	153.1	146.5	340	1.9	79.1	14.6	985	3.08	47.6	79.0	8.1	70	2.3	8.5	12.7	48	1.04	0.072
STD DS11	Standard		14.6	153.1	142.9	362	1.8	79.3	14.6	1083	3.14	43.6	74.9	7.8	68	2.5	7.2	11.8	51	1.06	0.066
STD DS11	Standard		14.4	143.3	133.5	332	1.7	79.6	13.2	1072	3.10	42.4	74.6	7.2	67	2.4	7.8	11.4	50	1.06	0.066
STD OXC129	Standard		1.3	25.7	6.1	40	<0.1	77.3	20.6	418	3.02	0.5	199.2	1.8	186	<0.1	<0.1	<0.1	52	0.67	0.104
STD OXC129	Standard		1.2	28.1	6.6	45	<0.1	83.5	22.0	407	3.08	0.9	207.0	1.9	194	<0.1	<0.1	<0.1	53	0.67	0.100
STD OXC129	Standard		1.1	26.3	6.0	47	<0.1	78.6	19.7	430	3.05	1.2	204.8	1.8	185	<0.1	<0.1	<0.1	54	0.71	0.105
STD OXC129 Expected			1.3	28	6.3	42.9		79.5	20.3	421	3.065	0.6	195	1.9					51	0.665	0.102
STD DS11 Expected			14.6	156	138	345	1.71	81.9	14.2	1055	3.2082	42.8	79	7.65	67.3	2.37	8.74	12.2	50	1.063	0.0701
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	1.2	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
Prep Wash																					
ROCK-WHI	Prep Blank		1.1	4.9	1.1	37	<0.1	1.4	4.4	580	1.64	1.8	0.7	1.5	27	<0.1	<0.1	<0.1	19	0.97	0.037
ROCK-WHI	Prep Blank		0.9	7.4	1.1	37	<0.1	1.5	4.5	571	1.65	1.3	<0.5	1.6	33	<0.1	<0.1	<0.1	21	0.92	0.035



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

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Method	Analyte	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
K966290	Rock Chip	22	6	0.33	75	0.004	4	1.06	0.037	0.22	0.5	<0.01	1.9	0.1	<0.05	4	<0.5	<0.2
REP K966290	QC	21	6	0.33	73	0.004	2	1.07	0.037	0.22	0.5	<0.01	2.0	0.2	<0.05	4	<0.5	<0.2
K966370	Rock Chip	20	12	0.53	139	0.131	5	1.38	0.058	0.33	2.4	0.01	3.9	0.5	<0.05	6	0.5	<0.2
REP K966370	QC	19	12	0.53	133	0.129	2	1.40	0.059	0.33	2.2	<0.01	4.1	0.5	<0.05	6	<0.5	<0.2
REP K966399	QC	16	7	0.99	34	0.067	1	2.35	0.028	0.19	1.6	0.02	3.0	0.5	0.25	17	<0.5	<0.2
Core Reject Duplicates																		
K966365	Rock Chip	12	10	0.46	60	0.067	<1	1.60	0.039	0.19	0.6	<0.01	2.5	0.2	<0.05	6	<0.5	<0.2
DUP K966365	QC	13	10	0.45	62	0.072	1	1.57	0.039	0.19	0.7	<0.01	2.4	0.2	<0.05	6	<0.5	<0.2
K966399	Rock Chip	18	8	1.00	35	0.076	<1	2.48	0.034	0.18	1.5	0.03	4.0	0.5	0.26	18	<0.5	<0.2
DUP K966399	QC	15	8	1.00	34	0.063	3	2.41	0.029	0.19	1.3	0.02	3.0	0.5	0.26	17	<0.5	<0.2
Reference Materials																		
STD DS11	Standard	18	60	0.83	398	0.098	9	1.12	0.071	0.40	3.2	0.29	3.4	5.0	0.28	5	2.7	5.0
STD DS11	Standard	19	60	0.84	387	0.099	7	1.16	0.073	0.41	2.9	0.27	3.1	4.9	0.28	5	1.3	4.8
STD DS11	Standard	19	58	0.83	364	0.091	5	1.15	0.073	0.40	3.0	0.25	3.4	4.8	0.28	5	1.3	4.1
STD OXC129	Standard	12	51	1.56	54	0.404	2	1.54	0.588	0.37	<0.1	<0.01	0.7	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	12	51	1.58	52	0.425	<1	1.52	0.590	0.38	0.1	<0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	12	52	1.57	50	0.399	1	1.61	0.613	0.40	<0.1	<0.01	0.7	<0.1	<0.05	5	0.7	<0.2
STD OXC129 Expected		13	52	1.545	50	0.4	1	1.58	0.6	0.37			1.1			5.6		
STD DS11 Expected		18.6	61.5	0.85	385	0.0976		1.1795	0.0762	0.4	2.9	0.3	3.4	4.9	0.2835	5.1	1.9	4.56
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	0.2	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																		
ROCK-WHI	Prep Blank	5	3	0.53	39	0.059	1	1.07	0.061	0.08	<0.1	<0.01	2.6	<0.1	0.06	4	<0.5	<0.2
ROCK-WHI	Prep Blank	5	3	0.54	40	0.059	<1	1.21	0.073	0.08	<0.1	<0.01	2.8	<0.1	0.07	4	<0.5	<0.2

Appendix C: RC Geological Logs

Hole ID	PROJECT: Rude Creek, Target A	Au_PPB		Ag_PPM	As_PPM	Bi_PPM	Uppm	Uppm	Color	RECY	DTYPE_Min	DTYPE_PCT	Ksp	Ksp_PCT	Ksp_Min	AS_PCT	AS_Min	Sulf	Sulf_PCT	Sulf_Min	AlF2	AlF2_Min	AlF2_Min	VE_Count	COMMENTS / DESCRIPTION	
		Au_PPB	Au_PPB																							
ROYRC17-04	2	7	0.61	2.13	K966151																				no sample	
ROYRC17-04	7	12	2.13	3.66	K966152	23.7	0.9	87.3	3.7	Grano-diorite	rusty brown	strong	lim, hem	20	Qtz-calcite	2						chlorite	patchy	weak to mod	Fine to medium grained, massive, grey to green grey hornblende tourmaline granodiorite, with clear to grey sub to anhedral quartz grains, little biotite and magnetite, and light grey to light brown feldspars. Minor vein quartz and calcite as subsaccharoidal grains that are white to orange to smokey coloured when not rusty. Surface weathering ends at about 3.6m.	
ROYRC17-04	12	16	3.66	4.88	K966153	28.9	0.2	24.7	1.6	Grano-diorite	rusty brown	moderate	lim, hem	10	Qtz-calcite	2						chlorite	patchy	weak to mod	as above	
ROYRC17-04	16	21	4.88	6.4	K966154	2.9	0.1	8.8	4.9	Grano-diorite	green-grey	weak	lim, hem	1	Qtz-calcite	2						chlorite	patchy	weak to mod	as above	
ROYRC17-04	21	26	6.4	7.92	K966155	24.8	0	5.6	1.1	Grano-diorite	green-grey	none			Qtz-calcite	2						chlorite	patchy	weak to mod	as above	
ROYRC17-04	26	31	7.92	9.45	K966156	6.7	0	19.4	1.5	Grano-diorite	green-grey	none			Qtz-calcite	2						chlorite	patchy	weak to mod	as above	
ROYRC17-04	31	36	9.45	11	K966157	10.1	0.1	33.1	1	Grano-diorite	green-grey	none			Qtz-calcite	2						chlorite	patchy	weak to mod	as above	
ROYRC17-04	36	41	11	12.5	K966158	18.3	0.2	58.9	3.7	Grano-diorite	green-grey	none			Qtz-calcite	2						chlorite	patchy	weak to mod	as above	
ROYRC17-04	41	46	12.5	14	K966159	19.3	0.5	64.3	5.1	Grano-diorite	green-grey	none			Qtz-calcite	2						chlorite	patchy	weak to mod	as above	
ROYRC17-04	46	51	14	15.5	K966160	30.7	0.5	25.2	21.8	Grano-diorite	green-grey	none			Qtz-calcite	2						chlorite	patchy	weak to mod	as above	
ROYRC17-04	51	56	15.5	17.1	K966161	8.7	0.2	34.7	1.6	Grano-diorite	green-grey	weak	lim, hem	2	Qtz-calcite	5						chlorite	patchy	weak to mod	as above	
ROYRC17-04	56	61	17.1	18.8	K966162	18.3	0.3	100.3	1.6	Grano-diorite	green-grey	moderate	lim, hem	10	Qtz-calcite	5						chlorite	patchy	weak to mod	as above	
ROYRC17-04	61	66	18.8	20.1	K966163	1.4	0	11.3	0.5	Grano-diorite	green-grey	none			Qtz-calcite	5						chlorite	patchy	weak to mod	as above	
ROYRC17-04	66	71	20.1	21.6	K966164	23.6	0.1	13.3	2.5	Grano-diorite	green-grey	none			Qtz-calcite	5						chlorite	patchy	weak to mod	as above	
ROYRC17-04	71	76	21.6	23.2	K966165	5.3	0	6.4	0.6	Grano-diorite	green-grey	none			Qtz-calcite	2						chlorite	patchy	weak to mod	as above	
ROYRC17-04	76	81	23.2	24.7	K966166	2	0	5.7	0.2	Grano-diorite	green-grey	none			Qtz-calcite	2						chlorite	patchy	weak to mod	as above	
ROYRC17-04	81	86	24.7	26.2	K966167	2.6	0	4.8	0.4	Grano-diorite	green-grey	none			Qtz-calcite	2						chlorite	patchy	weak to mod	as above	
ROYRC17-04	86	91	26.2	27.7	K966168	2.5	0	7	0.2	Grano-diorite	green-grey	none			Qtz-calcite	2						chlorite	patchy	weak to mod	as above	
ROYRC17-04	91	96	27.7	29.3	K966169	7.7	0	4.2	0.2	Grano-diorite	green-grey	none			Qtz-calcite	2						chlorite	patchy	weak to mod	as above	
ROYRC17-04	96	101	29.3	30.8	K966170	0.9	0	2.8	0.2	Grano-diorite	green-grey	none			Qtz-calcite	2						chlorite	patchy	weak to mod	as above.	
ROYRC17-04	101	106	30.8	32.3																					missing sample? Or a number skip in the sample tag book.	
ROYRC17-04	106	111	32.3	33.8	K966171	3.4	0	6.7	0.3	Grano-diorite	green-grey	none			Qtz-calcite	2						chlorite	patchy	weak to mod	as above	
ROYRC17-04	111	116	33.8	35.4	K966172	6.1	0.1	15.2	1.7	Grano-diorite	green-grey	weak	lim, hem	2	Qtz-calcite	5						chlorite	patchy	weak to mod	as above	
ROYRC17-04	116	121	35.4	36.9	K966173	4.1	0	9.6	0.5	Grano-diorite	green-grey	weak	lim, hem	2	Qtz-calcite	2						chlorite	patchy	weak to mod	as above	
ROYRC17-04	121	126	36.9	38.4	K966174	3.4	0.2	11.5	0.5	Grano-diorite	green-grey	weak	lim	1	Qtz-calcite	2						chlorite	patchy	weak	as above.	
ROYRC17-04	126	131	38.4	39.9	K966175	1.6	0.1	6.2	0.5	Grano-diorite	green-grey	weak	lim	2	Qtz-calcite	2						chlorite	patchy	weak	as above	
ROYRC17-04	131	136	39.9	41.5	K966176	0.6	0	4.6	0.2	Grano-diorite	green-grey	moderate	lim, hem	5	Qtz-calcite	10						chlorite	patchy	weak	as above	
ROYRC17-04	136	141	41.5	43	K966177	0.8	0	3.6	0.2	Grano-diorite	grey	moderate	lim, hem	5	Qtz-calcite	10									as above.	
ROYRC17-04	141	146	43	44.5	K966178	0.5	0	5.2	0.2	Grano-diorite	grey	moderate	lim	2	Qtz-calcite	5									as above.	
ROYRC17-04	146	151	44.5	46	K966179	97.1	0.1	5	0.8	Grano-diorite	grey	weak	lim, hem	1	Qtz-calcite	10									as above.	
ROYRC17-04	151	156	46	47.5	K966180	0	0	5.4	0.4	Grano-diorite	grey	none			Qtz-calcite	10									as above.	
ROYRC17-04	156	161	47.5	49.1	K966181	1.1	0	5.8	0.3	Grano-diorite	grey	none			Qtz-calcite	10									as above.	
ROYRC17-04	161	166	49.1	50.6	K966182	4.1	0	7.4	0.2	Grano-diorite	grey	none			Qtz-calcite	10									as above.	
ROYRC17-04	166	171	50.6	52.1	K966183	5.3	0	10.9	0.4	Grano-diorite	grey	none			Qtz-calcite	10									as above.	
ROYRC17-04	171	176	52.1	53.6	K966184	27.5	0	14.6	1.9	Grano-diorite	grey	none			Qtz-calcite	10									as above.	
ROYRC17-04	176	181	53.6	55.2	K966185	3.6	0	5.9	0.3	Grano-diorite	grey	none			Qtz-calcite	10									as above.	
ROYRC17-04	181	186	55.2	56.7	K966186	0.6	0	3.6	0.1	Grano-diorite	grey	none			Qtz-calcite	10									as above.	
ROYRC17-04	186	191	56.7	58.2	K966187	1.4	0	5.1	0.6	Grano-diorite	grey	none			Qtz-calcite	10									as above.	
ROYRC17-04	191	196	58.2	59.7	K966188	0.9	0	4.8	0.2	Grano-diorite	grey	none			Qtz-calcite	10									as above.	
ROYRC17-04	196	201	59.7	61.3	K966189	2.8	0	6.2	0.4	Grano-diorite	grey	none			Qtz-calcite	10									as above.	
ROYRC17-04	201	206	61.3	62.8	K966190	0.9	0	6.8	0.3	Grano-diorite	grey	none			Qtz-calcite	10									as above.	
ROYRC17-04	206	211	62.8	64.3	K966191	1	0	5.2	0.1	Grano-diorite	grey	none			Qtz-calcite	10									Light yellow green tourmaline? Trace amounts of very small crystals.	
ROYRC17-04	211	216	64.3	65.8	K966192	0.6	0	5.5	0.2	Grano-diorite	grey	none			Qtz-calcite	10									Light yellow green tourmaline? Trace amounts of very small crystals.	
ROYRC17-04	216	221	65.8	67.4	K966193	9	0	13.6	0.3	Grano-diorite	grey	none			Qtz-calcite	10									Light yellow green tourmaline? Trace amounts of very small crystals.	
ROYRC17-04	221	226	67.4	68.9	K966194	112.3	0.2	55.1	6	Grano-diorite	grey	weak	lim, hem	2	Qtz-calcite	10									fine grained clots of pyrite, one on a small fragment of hornblende/tourmaline, and one on a quartz vein fragment.	
ROYRC17-04	226	231	68.9	70.4	K966195	9.8	0.1	27.8	2.3	Grano-diorite	grey	weak	lim, hem	1	Qtz-calcite	10									Light yellow green tourmaline? Trace amounts of very small crystals.	
ROYRC17-04	231	236	70.4	71.9	K966196	168.6	0	15.4	0.6	Grano-diorite	grey	none			Qtz-calcite	10									Light yellow green tourmaline? Trace amounts of very small crystals.	
ROYRC17-04	236	241	71.9	73.5	K966197	7.6	0.1	19.3	0.9	Grano-diorite	grey	none			Qtz-calcite	10									Light yellow green tourmaline? Trace amounts of very small crystals.	
ROYRC17-04	241	246	73.5	75	K966198	4.9	0	11.7	1.2	Grano-diorite	grey	none			Qtz-calcite	10										
ROYRC17-04	246	251	75	76.5	K966199	10.8	0	13.6	0.8	Grano-diorite	grey	none			Qtz-calcite	10										
ROYRC17-04	251	256	76.5	78	K966200	4.5	0	7.2	0.4	Grano-diorite	grey	none			Qtz-calcite	10										pyrite trace clots
ROYRC17-04	256	261	78	79.6	K966201	8.1	0	15.2	2.7	Grano-diorite	grey	none			Qtz-calcite	10										fine grained clots of pyrite, one on a small fragment of hornblende/tourmaline, and one on a quartz vein fragment.
ROYRC17-04	261	266	79.6	81.1	K966202	1.6	0	9.3	0.5	Grano-diorite	grey	none	lim, hem	2	Qtz-calcite	10										2 very small grains pyrite on quartz vein fragment.
ROYRC17-04	266	271	81.1	82.6	K966203	73.3	0.1	14.1	5.5	Grano-diorite	grey	weak	lim, hem	2	Qtz-calcite	10										1 massive pyrite fragment, and 1 quartz vein with a dot of very fine grained prite.
ROYRC17-04	271	276	82.6	84.1	K966204	3.8	0	9.7	0.3	Grano-diorite	grey	none			Qtz-calcite	10										crusts on hornblende/black tourmaline
ROYRC17-04	276	281	84.1	85.6	K966205	3.3	0	10.9	0.4	Grano-diorite	grey															

Handl. #	From_F	To_F	From_m	To_m	MAPLE_AID	Au_Sgls	Ag_ppm	As_ppm	B_ppm	Urea	Color	RECOY	DRUG_Min	DRUG_FCT	Vib	VIB_FCT	VIB_F09H	AS_FCT	AS_F09H	SUFF	SUFF_FCS	SUFF_F09H	Air_1	Air_1_F09H	Air_1_HPT	VE_COUNT	COMMENTS / DESCRIPTION
ROYRC17-05	36	41	11	12.5	K966224	8.4	0.1	17.6	2.5	Grano-diorite	grey	weak	hem	2	qtz	5	subsacccaroid	trace to 1%	sooty, granular	py	2	fine gr, diss	chlorite	patchy	weak	As above.	Granoliorite as above. Sudden increase in iron oxides, after biotite, pyrite, magnetite, and arsenopyrite. Sulphides appear mostly in the off white, subsacccaroid quartz vein fragments.
ROYRC17-05	41	46	12.5	14	K966225	483.9	0.3	144	10.2	Grano-diorite	orange	mod	hem	10	qtz	10	subsacccaroid	trace to 1%	sooty, granular				chlorite	patchy	weak	Granoliorite as above. Sudden increase in iron oxides, after biotite, pyrite, magnetite, and arsenopyrite. Sulphides appear mostly in the off white, subsacccaroid quartz vein fragments.	
ROYRC17-05	46	51	14	15.5	K966226	14.9	1.4	156.7	4.4	Grano-diorite	orange	mod	hem	10	qtz	20	subsacccaroid	trace to 1%	sooty, granular				chlorite	patchy	weak	Granoliorite as above. Sudden increase in iron oxides, after biotite, pyrite, magnetite, and arsenopyrite. Sulphides appear mostly in the off white, subsacccaroid quartz vein fragments.	
ROYRC17-05	51	56	15.5	17.1	K966227	985.7	24.8	2829.5	41.5	Grano-diorite	orange	mod	hem	10	qtz	20	subsacccaroid	trace to 1%	sooty, granular				chlorite	patchy	weak	Granoliorite as above. Sudden increase in iron oxides, after biotite, pyrite, magnetite, and arsenopyrite. Sulphides appear mostly in the off white, subsacccaroid quartz vein fragments.	
ROYRC17-05	56	61	17.1	18.6	K966228	1072.5	0.4	61.8	6.4	Grano-diorite	grey	weak	hem	5	qtz	10	subsacccaroid						chlorite	patchy	weak	Iron oxides and sulphides abruptly decrease to trace amounts, as does tourmaline. Quartz veining and magnetite continues.	
ROYRC17-05	61	66	18.6	20.1	K966229	14.5	0.2	32.5	3	Grano-diorite	grey	none			qtz	10	subsacccaroid						chlorite	patchy	weak	hornblende biotite massive granodiorite, patchy weak chlorite alteration of hornblende. Variable off white, subsacccaroid quartz vein fragments. Variable clear grey to smoky quartz vein fragments.	
ROYRC17-05	66	71	20.1	21.6	K966230	24.2	0	18.1	4.5	Grano-diorite	grey	none			qtz	10	subsacccaroid						chlorite	patchy	weak	As above.	
ROYRC17-05	71	76	21.6	23.2	K966231	14.4	0	10	1.1	Grano-diorite	grey	none			qtz	10	subsacccaroid						chlorite	patchy	weak	As above.	
ROYRC17-05	76	81	23.2	24.7	K966232	7.2	0	8.7	0.7	Grano-diorite	grey	none			qtz	10	subsacccaroid						chlorite	patchy	weak	As above. Rare dark red brown garnet.	
ROYRC17-05	81	86	24.7	26.2	K966233	36.6	0	16.1	2.4	Grano-diorite	grey	none			qtz	10	subsacccaroid						chlorite	patchy	weak	As above.	
ROYRC17-05	86	91	26.2	27.7	K966234	42.9	0	34.8	3.3	Grano-diorite	grey	none			qtz	10	subsacccaroid						chlorite	patchy	weak	As above.	
ROYRC17-05	91	96	27.7	29.3	K966235	1.5	0	7.2	0.2	Grano-diorite	grey	none			qtz	10	subsacccaroid						chlorite	patchy	weak	As above.	
ROYRC17-05	96	101	29.3	30.8	K966236	0	0	7.8	0.2	Grano-diorite	grey	none			qtz	20	subsacccaroid						chlorite	patchy	weak	As above. Possible stibnite?	
ROYRC17-05	101	106	30.8	32.3	K966237	0.6	0	7.2	0.2	Grano-diorite	grey	none			qtz	20	subsacccaroid						chlorite	patchy	weak	As above.	
ROYRC17-05	106	111	32.3	33.8	K966238	1.6	0	8.6	0.2	Grano-diorite	grey	weak	hem	1	qtz	20	subsacccaroid	trace to 1%	sooty, granular				chlorite	patchy	weak	As above.	
ROYRC17-05	111	116	33.8	35.4	K966239	0	0	7.5	0.2	Grano-diorite	grey	weak	hem	1	qtz	20	subsacccaroid	trace to 1%	sooty, granular				chlorite	patchy	weak	As above.	
ROYRC17-05	116	121	35.4	36.9	K966240	0	0	6	0.1	Grano-diorite	grey	weak	hem	1	qtz	20	subsacccaroid	trace to 1%	sooty, granular				chlorite	patchy	weak	As above.	
ROYRC17-05	121	126	36.9	38.4	K966241	2.3	0	8.3	0.3	Grano-diorite	grey	weak	hem	1	qtz	20	subsacccaroid	trace to 1%	sooty, granular				chlorite	patchy	weak	As above.	
ROYRC17-05	126	131	38.4	39.9	K966242	0.9	0	4.5	0.1	Grano-diorite	grey	weak	hem, lim	1	qtz	20	subsacccaroid	trace to 1%	sooty, granular				chlorite	patchy	weak	As above.	
ROYRC17-05	131	136	39.9	41.5	K966243	343	0.2	34.7	3.2	Grano-diorite	orange grey	mod	hem, lim	3	qtz	20	subsacccaroid	trace to 1%	sooty, granular				chlorite	patchy	weak	Granoliorite as above. Sudden increase in iron oxides, after biotite, pyrite, magnetite, and arsenopyrite. No discernable sulphides.	
ROYRC17-05	136	141	41.5	43	K966244	2.2	0	7.3	0.2	Grano-diorite	orange grey	mod	hem, lim	3	qtz	20	subsacccaroid	trace to 1%	sooty, granular				chlorite	patchy	weak	As above.	
ROYRC17-05	141	146	43	44.5	K966245	4.5	0	5.8	0.1	Grano-diorite	grey	none			qtz	20	subsacccaroid						chlorite	patchy	weak	As above.	
ROYRC17-05	146	151	44.5	46	K966246	1.9	0	8.5	0.1	Grano-diorite	grey	none			qtz	20	subsacccaroid						chlorite	patchy	weak	As above.	
ROYRC17-05	151	156	46	47.5	K966247	0	0	9.1	0.1	Grano-diorite	grey	none			qtz	20	subsacccaroid						chlorite	patchy	weak	As above.	
ROYRC17-05	156	161	47.5	49.1	K966248	2.1	0	7.8	0.1	Grano-diorite	grey	none			qtz	20	subsacccaroid						chlorite	patchy	weak	As above. Tourmaline clusters.	
ROYRC17-05	161	166	49.1	50.6	K966249	3.5	0	10.8	0.3	Grano-diorite	grey	weak			qtz	20	subsacccaroid						chlorite	patchy	weak	As above. Tourmaline clusters.	
ROYRC17-05	166	171	50.6	52.1	K966250	0	0	8.4	0.7	Grano-diorite	grey	weak	hem, lim	1	qtz	20	subsacccaroid						chlorite	patchy	weak	As above. Tourmaline clusters. No discernable sulphides.	
ROYRC17-05	171	176	52.1	53.6	K966251	1.2	0	8.8	0.2	Grano-diorite	grey	weak	hem, lim	1	qtz	20	subsacccaroid						chlorite	patchy	weak	As above. Tourmaline clusters. No discernable sulphides.	
ROYRC17-05	176	181	53.6	55.2	K966252	1.6	0	8.9	0.5	Grano-diorite	grey	weak	hem, lim	1	qtz	20	subsacccaroid						chlorite	patchy	weak	As above. Tourmaline clusters. No discernable sulphides.	
ROYRC17-05	181	186	55.2	56.7	K966253	9.2	0	5.2	0.3	Grano-diorite	grey	weak	hem, lim	1	qtz	20	subsacccaroid						chlorite	patchy	weak	As above. Tourmaline clusters. No discernable sulphides.	
ROYRC17-05	186	191	56.7	58.2	K966254	0	0	5.3	0.3	Grano-diorite	grey	none	hem, lim	1	qtz	20	subsacccaroid						chlorite	patchy	weak	As above. Tourmaline clusters. No discernable sulphides.	
ROYRC17-05	191	196	58.2	59.7	K966255	3.1	0.1	9.2	1.8	Grano-diorite	grey	none			qtz	20	subsacccaroid						chlorite	patchy	weak	As above.	
ROYRC17-05	196	201	59.7	61.3	K966256	0	0	7.4	0.5	Grano-diorite	grey	none			qtz	20	subsacccaroid						chlorite	patchy	weak	As above.	
ROYRC17-05	201	206	61.3	62.8	K966257	0	0	6.1	0.3	Grano-diorite	grey	none			qtz	20	subsacccaroid						chlorite	patchy	weak	As above.	
ROYRC17-05	206	211	62.8	64.3	K966258	0	0	5.7	0.6	Grano-diorite	grey	weak	hem, lim	1	qtz	20	subsacccaroid						chlorite	patchy	weak	As above.	
ROYRC17-05	211	216	64.3	65.8	K966259	0	0	8.6	0.7	Grano-diorite	grey	weak	hem, lim	1	qtz	20	subsacccaroid						chlorite	patchy	weak	As above.	
ROYRC17-05	216	221	65.8	67.4	K966260	0	0	5.8	0.8	Grano-diorite	orange grey	mod	hem, lim	5	qtz	20	subsacccaroid						chlorite	patchy	weak	As above.	
ROYRC17-05	221	226	67.4	68.9	K966261	0	0	5.8	0.7	Grano-diorite	grey	weak	hem, lim	1	qtz	20	subsacccaroid						chlorite	patchy	weak	As above.	
ROYRC17-05	226	231	68.9	70.4	K966262	0	0	7.7	2.3	Grano-diorite	grey	weak	hem, lim	2	qtz	20	subsacccaroid						chlorite	patchy	weak	As above.	
ROYRC17-05	231	236	70.4	71.9	K966263	205.9	0	28.2	25.3	Grano-diorite	orange grey	mod	hem, lim	3	qtz	20	subsacccaroid						chlorite	patchy	weak	As above.	
ROYRC17-05	236	241	71.9	73.5	K966264	1.6	0	6.3	3.4	Grano-diorite	grey	weak	lim		qtz	20	subsacccaroid						chlorite, K	patchy	weak	As above. Very weak limonite staining. Possible scorodite? Weak potassic alteration.	
ROYRC17-05	241	246	73.5	75	K966265	1.1	0	9.5	2	Grano-diorite	grey	none			qtz	20	subsacccaroid						chlorite, K	patchy	weak	As above.	
ROYRC17-05	246	251	75	76.5	K966266	0	0	6.6	0.5	Grano-diorite	grey	none			qtz	20	subsacccaroid						chlorite, K	patchy	weak	As above.	
ROYRC17-05	251	256	76.5	78	K966267	2.4	0	8	1.6	Grano-diorite	grey	none			qtz	20	subsacccaroid						chlorite, K	patchy	weak	As above.	
ROYRC17-05	256	261	78	79.6	K966268	5.9	0	8.5	0.2	Grano-diorite	grey	none			qtz	20	subsacccaroid						chlorite, K	patchy	weak	As above.	
ROYRC17-05	261	266	79.6	81.1	K966269	264.7	0.2	121	9.4	Grano-diorite	grey	none			qtz	20	subsacccaroid						chlorite, K	patchy	weak	As above.	
ROYRC17-05	266	271	81.1	82.6	K966270	10.1	0	16.2	0.8	Grano-diorite	grey	none			qtz	20	subsacccaroid						chlorite, K	patchy	weak	As above.	
ROYRC17-05	271	276	82.6	84.1	K966271	0.8	0.1	6.5	3.5	Grano-diorite	grey	none			qtz	20	subsacccaroid						chlorite, K	patchy	weak	As above.	
ROYRC17-05	276	281	84.1	85.6	K966272	1.1	0	8.5	1.7	Grano-diorite	grey	weak	hem, lim, scor	1	qtz	20	subsacccaroid						chlorite, K	patchy	weak	As above. Very weak hematite, limonite and scorodite staining.	
ROYRC17-05	281	286	85.6	87.2	K966273	0	0	5.3	0.8	Grano-diorite	orange grey	mod	hem, lim, scor	5	qtz	20	subsacccaroid						chlorite, K	patchy	weak	As above. Very weak hematite, limonite and scorodite staining.	
ROYRC17-05	286	291	87.2	88.7	K966274	0	0	6.6	0.6	Grano-diorite	orange grey	mod	hem, lim, scor	5	qtz	20	subsacccaroid						chlorite, K	patchy	weak	As above. Very weak hematite, limonite and scorodite staining.	
ROYRC17-05	291	296	88.7	90.																							

Handl. #	From. #	To. #	From. m	To. m	MAPPL. ID	Al. Sph	Al. Perm	Al. Perm	Al. Perm	Ulna	Color	REGR	DING. Min	DING. ACT	Vln	Vln. ACT	Vln. FORM	AS. ACT	AS. FORM	SHIF	SHIF. PCS	SHIF. FORM	Al. F.	Al. F. FORM	Al. F. INT	VE. COUNT	COMMENTS / DESCRIPTION	
ROYRC17-05	321	326	97.8	99.4	K966281	359.1	0.1	42.5	17.9	Grano-diorite	orange grey	mod	hem, lim	3	qtz	20	subsaccharoid						chlorite, K	patchy	weak		As above.	
ROYRC17-05	326	331	99.4	101	K966282	7.5	0.1	11.4	9	Grano-diorite	orange grey	mod	hem, lim	5	qtz	20	subsaccharoid						chlorite, K	patchy	weak		As above.	
ROYRC17-05	331	336	101	102	K966283	1.1	0	6.6	0.9	Grano-diorite	grey	weak	hem, lim, scor		qtz	20	subsaccharoid						chlorite, K	patchy	weak		As above.	
ROYRC17-06	3	8	0.91	2.44	K966284	17.4	0.3	63.1	4.4	Grano-diorite	rusty grey	strong	lim, hem	20	qtz	2											Fine to medium grained, massive, grey to blue or brown grey granodiorite, with clear to bluish sub to anhedral quartz grains, weakly chloritized hornblende, very little biotite, which is usually hematitic where present, and weakly clay altered feldspars. Vein quartz grains are white to buff coloured when not rusty. Surface weathering ends at about 4m. Minor magnetite.	
ROYRC17-06	8	13	2.44	3.96	K966285	16.1	0.2	29.1	3	Grano-diorite	rusty grey	strong	lim, hem	20	qtz	2											as above	
ROYRC17-06	13	18	3.96	5.49	K966286	1.3	0	12.4	0.4	Grano-diorite	rusty blue-grey	moderate	lim, hem	10	qtz	2											as above	
ROYRC17-06	18	23	5.49	7.01	K966287	2.6	0	5.9	0.4	Grano-diorite	Blue-grey	weak	lim, hem	5	qtz	2							chlorite	patchy	weak to mod		as above	
ROYRC17-06	23	28	7.01	8.53	K966288	8.9	0.5	19.9	3.6	Grano-diorite	Blue-grey	weak	lim, hem	2	qtz	2											as above	
ROYRC17-06	28	33	8.53	10.1	K966289	4.2	0.3	11.2	2.2	Grano-diorite	Blue-grey	weak	lim, hem	2	qtz	2											as above	
ROYRC17-06	33	38	10.1	11.6	K966290	2.8	0.3	13.3	1.7	Grano-diorite	Blue-grey	weak	lim, hem	2	qtz	2											as above	
ROYRC17-06	38	43	11.6	13.1	K966291	3.8	0.3	13	2.1	Grano-diorite	Blue-grey	weak	lim, hem	2	qtz	2											as above	
ROYRC17-06	43	48	13.1	14.6	K966292	20.1	0.2	23.5	1.8	Grano-diorite	Blue-grey	weak	lim, hem	5	qtz	2											as above	
ROYRC17-06	48	53	14.6	16.2	K966293	2	0.1	11.2	0.6	Grano-diorite	rusty blue-grey	moderate	lim, hem	10	qtz	2											as above	
ROYRC17-06	53	58	16.2	17.7	K966294	2.5	0	10.1	0.4	Grano-diorite	rusty blue-grey	moderate	lim, hem	10	qtz	5		trace	fine grained								as above. Very fine grained granular arsenopyrite in quartz vein fracture.	
ROYRC17-06	58	63	17.7	19.2	K966295	22	0.2	18.3	0.7	Grano-diorite	rusty blue-grey	moderate	lim, hem	10	qtz	5											as above. Rosettes of tourmaline.	
ROYRC17-06	63	68	19.2	20.7	K966296	22.4	0.1	12.1	0.8	Grano-diorite	rusty blue-grey	moderate	lim, hem	10	qtz	5											as above	
ROYRC17-06	68	73	20.7	22.3	K966297	31.4	0	11.3	1.2	Grano-diorite	rusty blue-grey	moderate	lim, hem	10	qtz	2											as above	
ROYRC17-06	73	78	22.3	23.8	K966298	20.6	0.1	12.2	0.5	Grano-diorite	brown-grey	weak	lim, hem	5	qtz	2											as above	
ROYRC17-06	78	83	23.8	25.3	K966299	0	0	9	0.3	Grano-diorite	brown-grey	weak	lim, hem	2	qtz	2											as above	
ROYRC17-06	83	88	25.3	26.8	K966300	4.6	0.1	10.9	0.9	Grano-diorite	brown-grey	weak	lim, hem	2	qtz	2											as above	
ROYRC17-06	88	93	26.8	28.3	K966351	140.2	0.7	18.4	20.2	Grano-diorite	brown-grey	weak	lim, hem	2	qtz	2											as above	
ROYRC17-06	93	98	28.3	29.9	K966352	11.4	0.1	10.6	1.1	Grano-diorite	brown-grey	weak	lim, hem	2	qtz	2											as above	
ROYRC17-06	98	103	29.9	31.4	K966353	8.9	0.1	8.8	1	Grano-diorite	brown-grey	weak	lim, hem	2	qtz	2											as above. Clusters of tourmaline 10%	
ROYRC17-06	103	108	31.4	32.9	K966354	2.2	0.2	15.6	0.4	Grano-diorite	rusty brown-grey	moderate	lim, hem	5	qtz	5			pyrite	trace	very fine gr, diss						as above. Trace dark reddish brown garnet crystals. Trace very fine grained disseminated pyrite.	
ROYRC17-06	108	113	32.9	34.4	K966355	0	0	5.4	0.2	Grano-diorite	Blue-grey	weak	lim, hem	2	qtz	2											as above	
ROYRC17-06	113	118	34.4	36	K966356	0.6	0	9.7	0.4	Grano-diorite	brown-grey	weak	lim, hem	2	qtz	2											as above	
ROYRC17-06	118	123	36	37.5	K966357	1.1	0	9.3	0.4	Grano-diorite	brown-grey	weak	lim, hem	2	qtz	2											as above	
ROYRC17-06	123	128	37.5	39	K966358	14.8	0.1	9.8	5.4	Grano-diorite	brown-grey	weak	lim, hem	1	qtz	2											as above. Clusters of tourmaline 10%	
ROYRC17-06	128	133	39	40.5	K966359	5.1	0	13.3	4.1	Grano-diorite	brown-grey	weak	lim, hem	2	qtz	2				pyrite	trace	granular clot					as above	
ROYRC17-06	133	138	40.5	42.1	K966360	21.7	0.1	71.8	2.8	Grano-diorite	rusty brown-grey	moderate	lim, hem	5	qtz	5											as above	
ROYRC17-06	138	143	42.1	43.6	K966361	8	0.1	26.8	1.7	Grano-diorite	rusty brown-grey	moderate	lim, hem	5	qtz	5											as above. Smokey quartz vein fragments as well as the white to buff coloured vein fragments continues to 52.7m.	
ROYRC17-06	143	148	43.6	45.1	K966362	4.8	0.1	14.4	2.6	Grano-diorite	brown-grey	weak	lim, hem	2	qtz	5											as above	
ROYRC17-06	148	153	45.1	46.6	K966363	5	0.1	12.9	0.6	Grano-diorite	brown-grey	weak	lim, hem	1	qtz	10											as above. Clusters of tourmaline 5%	
ROYRC17-06	153	158	46.6	48.2	K966364	2.3	0	8.4	0.7	Grano-diorite	brown-grey	weak	lim, hem	1	qtz	10												
ROYRC17-06	158	163	48.2	49.7	K966365	1.2	0	7.4	0.2	Grano-diorite	brown-grey	weak	lim, hem	1	qtz	10												
ROYRC17-06	163	168	49.7	51.2	K966366	88.6	0	10.2	0.4	Grano-diorite	brown-grey	weak	lim, hem	1	qtz	10												
ROYRC17-06	168	173	51.2	52.7	K966367	2.7	0	7.3	0.1	Grano-diorite	brown-grey	weak	lim, hem	1	qtz	10												
ROYRC17-06	173	178	52.7	54.3	K966368	2.5	0	6.7	0	Grano-diorite	brown-grey	weak	lim, hem	1	qtz	10												
ROYRC17-06	178	183	54.3	55.8	K966369	3.8	0	7.9	0.2	Grano-diorite	brown-grey	weak	lim, hem	1	qtz	10												
ROYRC17-06	183	188	55.8	57.3	K966370	0	0	12	0.1	Grano-diorite	brown-grey	weak	lim, hem	2	qtz	10												
ROYRC17-06	188	193	57.3	58.8	K966371	0	0	7.7	0	Grano-diorite	brown-grey	weak	lim, hem	2	qtz	10												
ROYRC17-06	193	198	58.8	60.4	K966372	4.9	0	20	0.4	Grano-diorite	brown-grey	weak	lim, hem	2	qtz	10												
ROYRC17-06	198	203	60.4	61.9	K966373	26.8	0.2	21.8	7.6	Grano-diorite	brown-grey	weak	lim, hem	1	qtz	10												
ROYRC17-06	203	208	61.9	63.4	K966374	16.7	0	6.6	1.3	Grano-diorite	brown-grey	weak	lim, hem	1	qtz	20												Clusters of tourmaline 30% Reappearance of smokey quartz vein fragments. Possible faint scorodite staining?
ROYRC17-06	208	213	63.4	64.9	K966375	2.1	0	9.3	1.2	Grano-diorite	brown-grey	weak	lim, hem	1	qtz	20												Clusters of tourmaline 30% Reappearance of smokey quartz vein fragments. Possible faint scorodite staining?
ROYRC17-06	213	218	64.9	66.4	K966376	0	0	6.1	0.2	Grano-diorite	brown-grey	weak	lim, hem	1	qtz	20												Clusters of tourmaline 30% Reappearance of smokey quartz vein fragments. Possible faint scorodite staining?
ROYRC17-06	218	223	66.4	68	K966377	0	0	6.8	0.2	Grano-diorite	brown-grey	weak	lim, hem	1	qtz	20												Clusters of tourmaline 30% Reappearance of smokey quartz vein fragments. Possible faint scorodite staining?
ROYRC17-06	223	228	68	69.5	K966378	0.7	0	5	0.1	Grano-diorite	brown-grey	weak	lim, hem	1	qtz	20												Clusters of tourmaline 30% Reappearance of smokey quartz vein fragments. Possible faint scorodite staining?
ROYRC17-06	228	233	69.5	71	K966379	0	0	7.4	0	Grano-diorite	brown-grey	weak	lim, hem	1	qtz	20												Clusters of tourmaline 30% Reappearance of smokey quartz vein fragments. Possible faint scorodite staining?
ROYRC17-06	233	238	71	72.5	K966380	1.2	0	7.7	0	Grano-diorite	brown-grey	weak	lim, hem	1	qtz	20												Clusters of tourmaline 30% Reappearance of smokey quartz vein fragments. Possible faint scorodite staining?
ROYRC17-06	238	243	72.5	74.1	K966381	0	0	7.8	0.4	Grano-diorite	brown-grey	weak	lim, hem	1	qtz	20												Clusters of tourmaline 30% Reappearance of smokey quartz vein fragments. Possible faint scorodite staining?
ROYRC17-06	243	248	74.1	75.8	K966382	4.9	0.1	10.8	1.9	Grano-diorite	brown-grey	weak	lim, hem	1	qtz	20												Clusters of tourmaline 30% Reappearance of smokey quartz vein fragments. Possible faint scorodite staining?
ROYRC17-06	248	253	75.8	77.1	K966383	0	0	8.5	0.4	Grano-diorite	brown-grey																	

Hole_ID	from_ft	to_ft	from_m	to_m	Sample_ID	Sample_Ch	Sample_Ty	Wt	kg	Mo_PPM	Cu_PPM	Pb_PPM	Zn_PPM	Ag_PPM	Ni_PPM	Co_PPM	Mn_PPM	Fe_PCT	As_PPM	Au_PPB	Th_PPM	Sr_PPM	Cd_PPM	Sb_PPM	B_PPM	V_PPM	Ca_PCT	P_PCT	La_PPM	Cr_PPM	Mg_PCT	Ba_PPM	Tl_PCT	B_PPM	Al_PCT	Na_PCT	K_PCT	W_PPM	Hg_PPM	Sc_PPM	Tl_PPM	S_PCT	Ga_PPM	Se_PPM	Te_PPM		
ROYVRC17-04	7	12	2.13	3.66	K966152	K966152	RC			1.03	1.5	20.9	40.6	69	0.9	10.9	5.7	826	20.7	87.3	23.7	14.4	19	0.6	2.1	3.7	20	0.5	0.063	21	23	0.22	161	0.011	8	1	0.015	0.2	0.4	0	2.7	0.3	0	3	0	0	0
ROYVRC17-04	12	16	3.66	4.88	K966153	K966153	RC			1.61	0.9	9.9	16.9	50	0.2	8.9	5.6	567	2.31	24.7	28.9	14.2	47	0.3	1.3	1.6	37	1.03	0.077	18	13	0.45	154	0.059	6	1.26	0.036	0.16	0.8	0	3.3	0.2	0	6	0	0	
ROYVRC17-04	16	21	4.88	6.40	K966154	K966154	RC			5.42	0.8	5.9	15.7	52	0.1	6.7	4.7	667	2.57	8.8	2.7	15.6	65	0.1	0.7	4.9	44	1.59	0.074	24	13	0.49	107	0.049	5	1.29	0.039	0.18	1.3	0	2.4	0.2	0	7	0	0	
ROYVRC17-04	21	26	6.40	7.92	K966155	K966155	RC			5.57	0.7	4.3	13.1	41	0	3.9	4.9	629	2.31	5.6	24.8	18.9	56	0	0.4	1.1	29	1.78	0.067	24	10	0.39	105	0.006	7	1.17	0.039	0.23	0.6	0	2.5	0.3	0	5	0	0	
ROYVRC17-04	26	31	7.92	9.45	K966156	K966156	RC			6.09	0.8	12.3	14.7	50	0	4	7.3	627	2.69	19.4	6.7	16.4	43	0.2	1.5	1.5	40	1.42	0.069	20	11	0.48	137	0.078	4	1.54	0.045	0.17	0.9	0	3.7	0.3	0	7	0	0	
ROYVRC17-04	31	36	9.45	10.97	K966157	K966157	RC			4.89	0.9	11.8	12.7	42	0.1	4.3	10.3	533	2.6	33.1	10.1	15.7	41	0.2	0.7	1	37	1.14	0.061	18	10	0.4	110	0.059	4	1.26	0.055	0.21	1.3	0	3.8	0.3	0.07	6	0	0	
ROYVRC17-04	36	41	10.97	12.50	K966158	K966158	RC			5.42	1	27.9	11.9	54	0.2	4.9	12.1	756	4.1	58.9	18.3	15.7	49	0.2	0.9	3.7	43	1.18	0.071	24	14	0.51	153	0.034	5	1.74	0.048	0.26	0.8	0	4.4	0.4	0	7	0	0	
ROYVRC17-04	41	46	12.50	14.02	K966159	K966159	RC			5.73	0.5	25.5	16.5	69	0.5	3.4	11.9	784	3.48	64.3	19.3	14.6	30	0.6	0.7	5.1	30	1	0.065	22	7	0.55	126	0.008	7	1.91	0.031	0.35	0.4	0	3.2	0.6	0	7	0	0	
ROYVRC17-04	46	51	14.02	15.54	K966160	K966160	RC			4.83	0.9	8.7	22.1	39	0.5	3.9	6.3	626	2.17	25.2	30.7	16.5	37	0.4	0.5	21.8	24	1.1	0.066	24	11	0.34	155	0.005	9	1.34	0.038	0.22	0.6	0	2.8	0.4	0	5	0	0	
ROYVRC17-04	51	56	15.54	17.07	K966161	K966161	RC			4.46	1	10.4	12.4	64	0.2	4.1	5.4	655	2.69	19.4	6.7	16.4	43	0.2	1.5	1.5	40	1.42	0.069	20	11	0.48	137	0.078	4	1.54	0.045	0.17	0.9	0	3.7	0.3	0	7	0	0	
ROYVRC17-04	56	61	17.07	18.59	K966162	K966162	RC			3.9	1.2	17.1	16.9	62	0.3	4.6	6.4	722	2.52	100.2	18.3	14	41	0.6	0.9	1.6	24	1.87	0.068	22	9	0.36	109	0.004	8	1.24	0.035	0.29	0.7	0	3.1	0.4	0.05	5	0	0	
ROYVRC17-04	61	66	18.59	20.12	K966163	K966163	RC			4.2	1.1	5.1	8.2	43	0	4.4	5.4	642	2.73	11.3	14	12.9	40	0.1	0.4	0.5	43	1.01	0.069	25	13	0.53	197	0.09	5	1.23	0.058	0.4	0.9	0	3.9	0.5	0	5	0	0	
ROYVRC17-04	66	71	20.12	21.64	K966164	K966164	RC			5.56	1.2	5.5	11.1	44	0.1	4.6	6.6	526	2.76	13.3	23.6	22.2	43	0	0.7	2.5	44	0.86	0.061	21	15	0.54	153	0.108	4	1.27	0.062	0.32	1.1	0	4.6	0.4	0	6	0	0	
ROYVRC17-04	71	76	21.64	23.16	K966165	K966165	RC			5.85	0.9	3.7	11.3	47	0	4.9	7.6	702	2.85	6.4	5.3	15.5	61	0.2	0.5	4.6	45	1.41	0.072	19	14	0.61	116	0.05	4	1.51	0.041	0.2	0.5	0	4.5	0.3	0	7	0	0	
ROYVRC17-04	76	81	23.16	24.69	K966166	K966166	RC			5	1	2.9	7.7	37	0	4.3	5.2	649	2.75	5.7	2	13.4	143	0.2	0.7	0.2	44	1.29	0.071	17	13	0.59	293	0.095	2	1.46	0.043	0.22	0.6	0	3.8	0.3	0	6	0	0	
ROYVRC17-04	81	86	24.69	26.21	K966167	K966167	RC			5.21	0.9	2.9	8.7	46	0	4.1	3.8	762	2.68	4.8	2.6	14.8	97	0.2	0.4	0.4	43	1.32	0.068	20	13	0.62	338	0.088	3	1.42	0.045	0.38	0.5	0	3.8	0.6	0	5	0	0	
ROYVRC17-04	86	91	26.21	27.74	K966168	K966168	RC			4.61	0.9	2.6	7.8	42	0	4.2	6	751	3.02	7	2.5	15.3	48	0	0.5	0.2	36	1.44	0.067	21	13	0.63	90	0.06	4	1.5	0.042	0.28	0.6	0	3.4	0.4	0	6	0	0	
ROYVRC17-04	91	96	27.74	29.26	K966169	K966169	RC			5.56	0.8	3.1	5.7	49	0	4.7	4	712	2.81	4.2	7.7	15.3	52	0	0.5	0.2	32	1.42	0.062	21	12	0.58	96	0.035	4	1.47	0.053	0.32	0.6	0	3.5	0.6	0	6	0	0	
ROYVRC17-04	96	101	29.26	30.78	K966170	K966170	RC			4.92	1	3	7.3	39	0	4.5	3.2	624	2.44	2.8	0.9	13.4	2.8	0	0.5	0.2	31	1.68	0.063	19	14	0.5	80	0.016	5	1.28	0.043	0.24	0.4	0	2.9	0.3	0	5	0	0	
ROYVRC17-04	106	111	32.31	33.83	K966171	K966171	RC			6	1.1	3.8	8.6	38	0	4.2	5.7	667	2.48	6.7	3.4	13.1	47	0	0.5	0.3	32	1.44	0.062	18	13	0.49	73	0.025	6	1.29	0.051	0.24	0.5	0	2.8	0.3	0	5	0	0	
ROYVRC17-04	111	116	33.83	35.36	K966172	K966172	RC			3.74	1	7.4	10.7	39	0.1	4.3	7.2	640	2.86	15.2	6.1	11.4	46	0.1	0.6	1.7	37	1.27	0.062	19	13	0.54	72	0.03	4	1.57	0.047	0.23	0.7	0	3.7	0.4	0	6	0	0	
ROYVRC17-04	116	121	35.36	36.88	K966173	K966173	RC			4.51	1.3	6.2	7.5	41	0	4.7	7.1	684	3.23	9.6	4.1	13.4	43	0	0.6	0.5	45	1.15	0.064	21	16	0.65	130	0.076	3	1.45	0.047	0.36	0.6	0	4.2	0.5	0	6	0	0	
ROYVRC17-04	121	126	36.88	38.41	K966174	K966174	RC			4.52	1.1	9.2	11.2	40	0.2	4.9	6.4	732	3.08	11.5	3.4	13.4	60	0.1	0.7	1.5	38	1.51	0.061	21	16	0.62	105	0.059	1	1.43	0.046	0.27	0.6	0	4.1	0.5	0	6	0	0	
ROYVRC17-04	126	131	38.41	39.93	K966175	K966175	RC			4.1	1.1	5.8	14	37	0.1	4.4	5.5	678	2.86	6.2	1.6	13.8	46	0	0.5	0.5	33	1.91	0.067	22	14	0.48	46	0.013	4	1.39	0.042	0.22	0.3	0	3.5	0.3	0	6	0	0	
ROYVRC17-04	131	136	39.93	41.45	K966176	K966176	RC			4.16	1.3	2.7	9.3	37	0	4.5	4.3	599	2.6	4.6	0.6	13	49	0	0.5	0.2	36	1.46	0.056	23	15	0.45	163	0.067	2	1.15	0.045	0.35	0.5	0	4.1	0.4	0	5	0	0	
ROYVRC17-04	136	141	41.45	42.98	K966177	K966177	RC			4.68	1	2.3	11.2	36	0	4.6	5.5	680	2.32	3.6	0.8	17.4	82	0	0.4	0.2	35	2.92	0.056	23	12	0.42	211	0.066	1	1.2	0.029	0.34	0.4	0	4.5	0.4	0	5	0	0	
ROYVRC17-04	141	146	42.98	44.50	K966178	K966178	RC			4.59	1.3	2.8	7.7	44	0	4.2	5.7	669	2.48	5.2	0.5	15.4	104	0	0.8	0.2	41	1.35	0.059	24	15	0.56	232	0.132	2	1.24	0.072	0.46	0.9	0	4.1	0.5	0	5	0	0	
ROYVRC17-04	146	151	44.50	46.02	K966179	K966179	RC			4.95	1.6	2.5	7	41	0.1	4.2	6	701	2.6	5	97.1	13.8	78	0.1	0.7	0.8	43	1.05	0.066	21	15	0.59	194	0.134	3	1.25	0.082	0.44	0.9	0	4.5	0.5	0	5	0	0	
ROYVRC17-04	151	156	46.02	47.54	K966180	K966180	RC			5.23	1.4	2.9	8.7	46	0	4.9	6.6	615	2.55	5.4	0	13.5	50	0.1	0.5	0.4	45	0.8	0.064	21	15	0.58	245	0.149	4	1.13	0.089	0.44	1.2	0	4.5	0.4	0	5	0	0	
ROYVRC17-04	156	161	47.54	49.07	K966181	K966181	RC			5.66	1.3	3.6	7.9	40	0	4.4	4.4	580	2.76	5.8	11	14.4	45	0	0.7	0.3	45	0.79	0.065	18	16	0.61	238	0.151	2	1.16	0.088	0.43	1.4	0	3.6	0.5	0	6	0	0	
ROYVRC17-04	161	166	49.07	50.60	K966182	K966182	RC			5.76	1.5	2.3	7.1	36	0	4.1	6.1	531	2.48	7.4	4.1	12.6	50	0	0.7	0.2	38	0.83	0.066	14	16	0.52	103	0.117	3	1.12	0.065	0.26	1.3	0	2.7	0.4	0	5	0	0	
ROYVRC17-04	166	171	50.60	52.12	K966183	K966183	RC			6.02	1.7	4.5	9.8	42	0	4.5	5.83	3.12	10.9	5.3	12.8	53	0.1	0.9	0.4																						

Hole_ID	from_ft	to_ft	from_m	to_m	Sample_ID	Sample_Ch	Sample_Ty	Wt_KG	Mo_PPM	Cu_PPM	Pb_PPM	Zn_PPM	Ag_PPM	Ni_PPM	Co_PPM	Mn_PPM	Fe_PCT	As_PPM	Au_PPB	Th_PPM	Sr_PPM	Cd_PPM	Sb_PPM	Bi_PPM	V_PPM	Ca_PCT	P_PCT	La_PPM	Cr_PPM	Mg_PCT	Ba_PPM	Tl_PCT	B_PPM	Al_PCT	Na_PCT	K_PCT	W_PPM	Hg_PPM	Se_PPM	Tl_PPM	S_PCT	Ga_PPM	Te_PPM	Te_PPM
ROY-2017-05	166	176	49.07	50.60	K966249	K966249	RC	2.92	1.3	4.1	7.3	36	0	3.9	8.4	552	2.87	10.8	3.5	12.4	92	0.1	0.6	0.2	39	0.97	0.059	13	13	0.47	70	0.078	4	1.22	0.067	0.17	1	0	2.7	0.2	0	5	0	0
ROY-2017-05	166	176	50.60	52.12	K966250	K966250	RC	2.53	1.2	2.5	7	36	0	4.2	5.6	553	2.72	8.0	3	13.8	63	0	0.9	0.7	43	1.15	0.063	16	13	0.59	186	0.101	2	1.44	0.05	0.32	0.9	0	3.9	0.4	0	5	0	0
ROY-2017-05	171	178	52.12	52.64	K966251	K966251	RC	3.09	1.3	2.6	6.5	35	0	4.4	6.1	523	2.66	8.8	1.2	12.4	66	0	0.8	0.2	45	0.88	0.055	16	14	0.56	162	0.076	4	1.28	0.076	0.28	0.8	0	3.4	0.3	0	5	0	0
ROY-2017-05	176	181	53.64	55.17	K966252	K966252	RC	3.05	0.8	2.1	8.3	33	0	3.8	4.2	483	2.35	8.9	1.6	14	83	0	1.5	0.5	30	1.47	0.075	15	11	0.49	60	0.016	2	2.2	0.021	0.16	0.7	0	2.7	0.3	0	7	0	0
ROY-2017-05	181	186	55.17	56.69	K966253	K966253	RC	3.49	1.2	3.3	7.3	36	0	3.7	3.2	583	2.64	5.2	9.3	11.6	58	0	0.7	0.3	32	1.53	0.066	15	13	0.49	58	0.054	3	1.43	0.044	0.19	0.6	0	2.8	0.3	0	7	0	0
ROY-2017-05	186	191	56.69	58.22	K966254	K966254	RC	2.51	1.2	2.8	8.5	36	0	4.3	3.1	542	2.32	5.3	0	13.8	71	0	0.8	0.3	32	1.31	0.059	11	12	0.49	61	0.062	3	1.39	0.049	0.16	0.8	0	2.4	0.2	0	5	0	0
ROY-2017-05	191	196	58.22	59.74	K966255	K966255	RC	2.04	1.5	3.2	7.1	34	0.1	4	4	536	2.73	9.2	3.1	12.5	57	0	0.6	1.8	41	0.92	0.066	15	15	0.56	128	0.113	3	1.21	0.064	0.27	1.4	0	2.9	0.3	0	5	0	0
ROY-2017-05	196	201	59.74	61.26	K966256	K966256	RC	2.74	1.4	5.1	7.3	43	0	4.6	4.2	605	2.96	7.4	0	13.4	101	0.1	0.6	0.5	41	1.04	0.066	18	16	0.6	141	0.117	3	1.35	0.068	0.32	1.3	0	3.2	0.4	0	5	0	0
ROY-2017-05	201	206	61.26	62.79	K966257	K966257	RC	2.6	2	4.2	5.4	40	0	4.7	4.9	555	2.76	6.1	0	14.7	91	0	0.5	0.3	45	0.7	0.062	20	18	0.59	247	0.146	1	1.21	0.101	0.46	2	0	3.9	0.5	0	5	0	0
ROY-2017-05	206	211	62.79	64.31	K966258	K966258	RC	3.29	1.4	3.1	6.2	37	0	4.0	4.8	631	2.66	5.7	0	14.8	143	0.1	0.8	0.3	47	1.03	0.068	13	13	0.48	62	0.02	2	1.35	0.062	0.27	1.4	0	2.9	0.4	0	5	0	0
ROY-2017-05	211	216	64.31	65.84	K966259	K966259	RC	3.05	1.4	3.5	6.3	39	0	4.1	5.1	546	2.87	8.6	0	13.6	79	0	0.8	0.7	50	0.99	0.068	19	17	0.65	192	0.149	3	1.34	0.063	0.33	1.1	0	3.9	0.4	0	5	0	0
ROY-2017-05	216	221	65.84	67.36	K966260	K966260	RC	3.57	1.2	3.8	6.8	34	0	5.3	3.9	534	2.56	5.8	0	13.7	65	0	1.1	0.8	38	1.24	0.065	15	14	0.55	94	0.094	3	1.33	0.05	0.23	1.1	0	2.7	0.3	0	5	0	0
ROY-2017-05	221	226	67.36	68.88	K966261	K966261	RC	3.26	1.3	3.3	6.3	38	0	4.6	4.4	544	2.66	5.8	0	12.2	70	0	1	0.7	40	1.31	0.064	17	14	0.59	159	0.11	2	1.45	0.056	0.29	1.1	0	3.4	0.4	0	5	0	0
ROY-2017-05	226	231	68.88	70.41	K966262	K966262	RC	2.51	1.6	6.4	7.4	38	0	4.9	4.5	572	2.72	7	0	13.4	80	0	1.2	2.3	39	1.49	0.06	19	15	0.6	178	0.108	2	1.52	0.055	0.28	1.1	0	3.6	0.4	0	5	0	0
ROY-2017-05	231	236	70.41	71.93	K966263	K966263	RC	2.6	0.7	12.8	10.2	33	0	4.7	18.9	559	2.92	28.2	205.9	11.6	81	0.1	2.6	25.3	26	30.7	0.062	14	10	0.52	54	0.017	2	1.93	0.022	0.19	0.8	0	2.6	0.3	0	8	0	0
ROY-2017-05	236	241	71.93	73.46	K966264	K966264	RC	2.62	1.3	4	6.6	39	0	4.8	3.2	554	2.5	6.3	1.6	10	72	0	1	3.4	37	1.11	0.068	12	15	0.57	66	0.11	4	1.3	0.053	0.17	2.1	0	2.9	0.3	0	5	0	0
ROY-2017-05	241	246	73.46	74.98	K966265	K966265	RC	3.07	1.6	8.3	9.9	33	0	3.3	3.4	465	2.25	9.5	1.1	12.1	186	0.2	1	2	32	1.23	0.059	12	14	0.47	127	0.09	3	1.37	0.06	0.17	1.3	0	2.6	0.2	0.05	5	0	0
ROY-2017-05	246	251	74.98	76.50	K966266	K966266	RC	2.97	1.6	3.9	6.2	30	0	4.1	4.5	431	2.37	6.6	0	12.8	60	0	0.6	0.5	37	0.78	0.051	13	15	0.48	104	0.107	3	1.07	0.072	0.21	1.6	0	2.6	0.2	0	4	0	0
ROY-2017-05	251	256	76.50	78.03	K966267	K966267	RC	2.77	1.4	4.9	5.7	29	0	3.6	4.0	472	2.25	8	2.4	13.5	48	0	0.6	1.6	33	0.73	0.048	15	14	0.47	143	0.11	3	1.04	0.079	0.29	1.5	0	2.6	0.3	0	4	0	0
ROY-2017-05	256	261	78.03	79.55	K966268	K966268	RC	3.21	1.6	2.8	5.9	28	0	3.7	5.8	467	2.23	8.5	5.9	11.4	69	0.1	0.8	0.2	32	0.88	0.051	11	14	0.46	47	0.083	4	1.1	0.07	0.15	1.5	0	2.3	0.2	0.06	4	0	0
ROY-2017-05	261	266	79.55	81.08	K966269	K966269	RC	3.19	1.6	9	5.4	41	0.2	8.4	63.9	631	3.47	121	264.7	12.4	54	0	0.7	9.4	40	1.33	0.067	16	15	0.61	93	0.108	5	1.31	0.064	0.22	1.6	0	3.2	0.3	0.88	6	0	0
ROY-2017-05	266	271	81.08	82.60	K966270	K966270	RC	3.42	1.6	4.9	6.6	34	0	4.7	12.3	527	2.46	16.2	10.1	14	88	0	0.7	1.8	35	1.44	0.061	17	15	0.52	95	0.091	3	1.33	0.061	0.16	1.5	0	2.9	0.2	0.14	5	0	0
ROY-2017-05	271	276	82.60	84.12	K966271	K966271	RC	3.21	1.6	5.9	6.2	37	0	4.2	4.2	593	2.21	6.5	0.8	12.2	65	0.2	1.1	3.5	25	1.54	0.059	12	15	0.53	64	0.044	4	1.37	0.056	0.22	1.1	0	2.9	0.3	0	5	0	0
ROY-2017-05	276	281	84.12	85.65	K966272	K966272	RC	3.38	1.6	4.4	9.8	31	0	4.4	7.5	493	2.25	8.5	1.1	13	124	0	0.9	1.7	33	1.46	0.064	16	14	0.5	114	0.086	2	1.35	0.049	0.16	1.4	0	2.5	0.2	0	5	0	0
ROY-2017-05	281	286	85.65	87.17	K966273	K966273	RC	2.81	1.2	2.1	7.2	32	0	3.9	3.7	530	2.07	5.3	0	13.8	78	0	1.2	0.8	26	1.63	0.066	14	13	0.48	60	0.027	0	1.49	0.04	0.17	0.9	0	2.5	0.3	0	5	0	0
ROY-2017-05	286	291	87.17	88.70	K966274	K966274	RC	3.09	1.1	1.4	8.7	35	0	4.7	4.1	493	2.06	6.6	0	13.4	105	0	0.7	0.6	26	1.46	0.061	13	11	0.55	62	0.01	1	2.17	0.029	0.18	0.3	0	2.9	0.3	0	6	0	0
ROY-2017-05	291	296	88.70	90.22	K966275	K966275	RC	2.86	1.2	2.8	13.6	37	0.2	5.2	3.9	740	2.67	8.6	1.6	11.9	177	0.1	0.7	31	28	3.6	0.057	16	11	0.67	87	0.019	2	2.06	0.039	0.2	0.4	0	2.7	0.3	0	6	0	0
ROY-2017-05	296	301	90.22	91.74	K966276	K966276	RC	2.75	1.8	3.6	8.8	29	0	4	2.3	462	1.93	4.7	1.4	13.9	79	0	0.7	2.5	25	1.42	0.055	12	17	0.43	66	0.033	2	1.16	0.051	0.17	0.8	0	2.8	0.2	0	4	0	0
ROY-2017-05	301	306	91.74	93.27	K966277	K966277	RC	3.09	1.5	5.9	6.1	32	0	4.1	2.8	514	2.37	6.7	2.9	11	74	0.1	0.5	2.5	15.4	0.059	12	15	0.53	64	0.044	4	1.37	0.056	0.22	1.1	0	2.9	0.3	0	5	0	0	
ROY-2017-05	306	311	93.27	94.79	K966278	K966278	RC	2.16	1.6	8.6	8.3	30	0	6.5	16.8	645	2.34	27.3	89.6	14.1	54	0.1	0.6	1.1	26	1.65	0.058	13	18	0.46	66	0.037	4	1.26	0.059	0.24	1.6	0	2.1	0.4	0.3	4	0	0
ROY-2017-05	311	316	94.79	96.32	K966279	K966279	RC	3.1	1.4	4.4	7	25	0	3.8	3.8	441	1.84	8.5	5.7	18.7	58	0	1.2	0.7	19	2.08	0.05	14	14	0.38	65	0.008	1	1.45	0.039	0.24	0.9	0	2.2	0.3	0.06	4	0	0
ROY-2017-05	316	321	96.32	97.84	K966280	K966280	RC	2.95	1	6.8	8.3	26	0	3.5	7.7	490	1.91	13.8	36.1	18.3	65	0.1	1.6	2.2	17	2.27	0.058	17	11	0.39	49	0.002	1	1.94	0.016	0.18	0.5	0	2.2	0.3	0	5	0	0
ROY-2017-05	321	326	97.84	99.36	K966281	K966281	RC	2.78	1.3	17.9	12.5																																	

Hole_ID	from_ft	to_ft	from_m	to_m	Sample_ID	Sample_ch	Sample_Ty	Wgt_KG	Mo_PPM	Cu_PPM	Pb_PPM	Zn_PPM	Ag_PPM	Ni_PPM	Co_PPM	Mn_PPM	Fe_PCT	As_PPM	Au_PPB	Th_PPM	Sr_PPM	Cd_PPM	Sb_PPM	Bi_PPM	V_PPM	Ca_PCT	P_PCT	La_PPM	Cr_PPM	Mg_PCT	Ba_PPM	Tl_PCT	B_PPM	Al_PCT	Na_PCT	K_PCT	W_PPM	Hg_PPM	Sc_PPM	Ti_PPM	S_PCT	Ga_PPM	Se_PPM	Te_PPM
ROY-2017-06	303	308	92.35	93.88	K966394	K966394	RC	5.05	5.4	30	16.8	66	0.5	4.8	22.8	1049	4.29	164.9	112.1	11.6	42	0.5	2.9	1.6	59	0.58	0.046	19	11	0.94	81	0.057	0	2.09	0.038	0.32	4.5	0.03	4.6	0.8	0.36	13	1	0
ROY-2017-06	308	313	93.88	95.40	K966395	K966395	RC	4.55	3.4	41.6	15.1	57	0.4	5.7	16.1	983	3.38	143	71.6	12.4	36	0.3	2.8	2.3	51	0.58	0.051	21	10	0.71	72	0.052	0	1.69	0.045	0.29	5.2	0.02	3.6	0.7	0.24	10	0	0
ROY-2017-06	313	318	95.40	96.93	K966396	K966396	RC	3.52	3.1	36.7	9	50	0.4	6.2	21	823	3.35	91	118.2	12.9	44	0	2.9	4.2	44	0.72	0.054	17	11	0.72	42	0.045	0	1.99	0.035	0.25	4.8	0.03	3.4	0.5	0.29	10	0	0
ROY-2017-06	318	323	96.93	98.45	K966397	K966397	RC	3.75	0.9	5.1	5.6	42	0	4	5.1	670	2.4	19.3	8.9	13.2	50	0	2.3	0.5	38	0.99	0.054	15	8	0.74	34	0.039	2	1.9	0.037	0.25	1.1	0.01	2.9	0.4	0	11	0.6	0
ROY-2017-06	323	328	98.45	99.97	K966398	K966398	RC	4.36	1	8.4	8.8	36	0.1	3.7	9.4	504	2.04	40.5	13.8	14.5	38	0.1	2	0.7	35	0.78	0.053	12	9	0.52	49	0.06	3	1.46	0.065	0.28	1.1	0.01	2.8	0.5	0.2	7	0	0
ROY-2017-06	328	333	99.97	101.50	K966399	K966399	RC	3.63	1.8	29.9	10.3	85	0.7	7.4	16.6	1392	3.41	121.7	82.7	12.7	95	0.2	5	7.9	50	1.71	0.045	18	8	1	35	0.076	0	2.48	0.034	0.18	1.5	0.03	4	0.5	0.26	18	0	0
ROY-2017-06	333	338	101.50	103.02	K966400	K966400	RC	3.74	0.9	11.2	10	47	0.2	3.3	7.6	567	1.85	49.7	44.7	12.6	98	0.2	3.3	1.3	28	1.19	0.05	11	6	0.53	39	0.084	1	1.66	0.069	0.2	1	0.01	2.7	0.4	0.22	8	0	0