

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: July 25 to 28, 2018

Prepared for 0890763 BC Ltd.

By Adam Fage

adamfage@gmail.com

Written by: Adam Fage October 20, 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 district, 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.

Two RC drill holes (totaling 196.6m) were drilled on the property in 2018. The drill holes were planned to follow up on successful 2017 drilling and to target soil geochemical anomalies.

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.

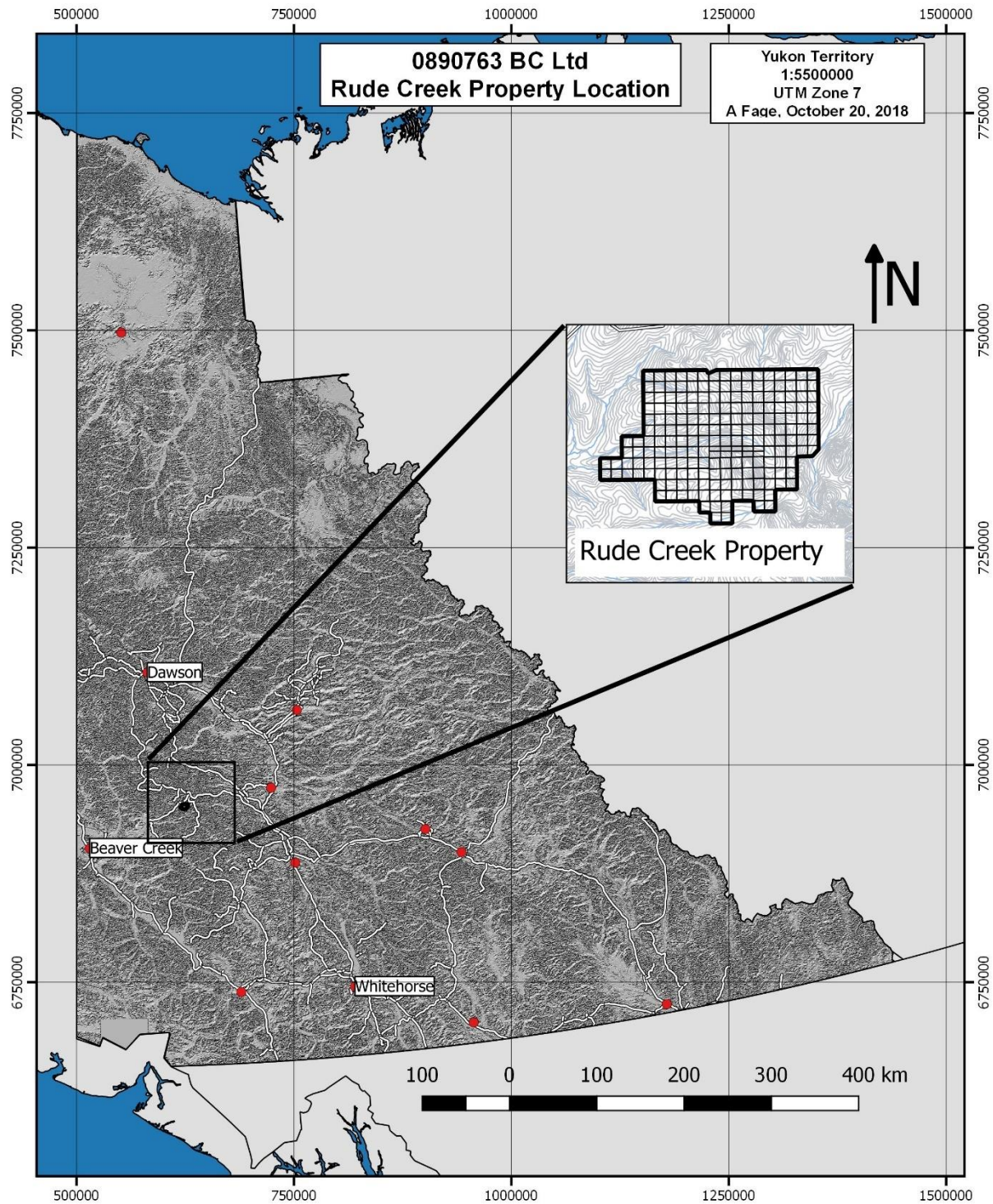


Figure 1: Location of the Rude Creek property, Yukon, Canada

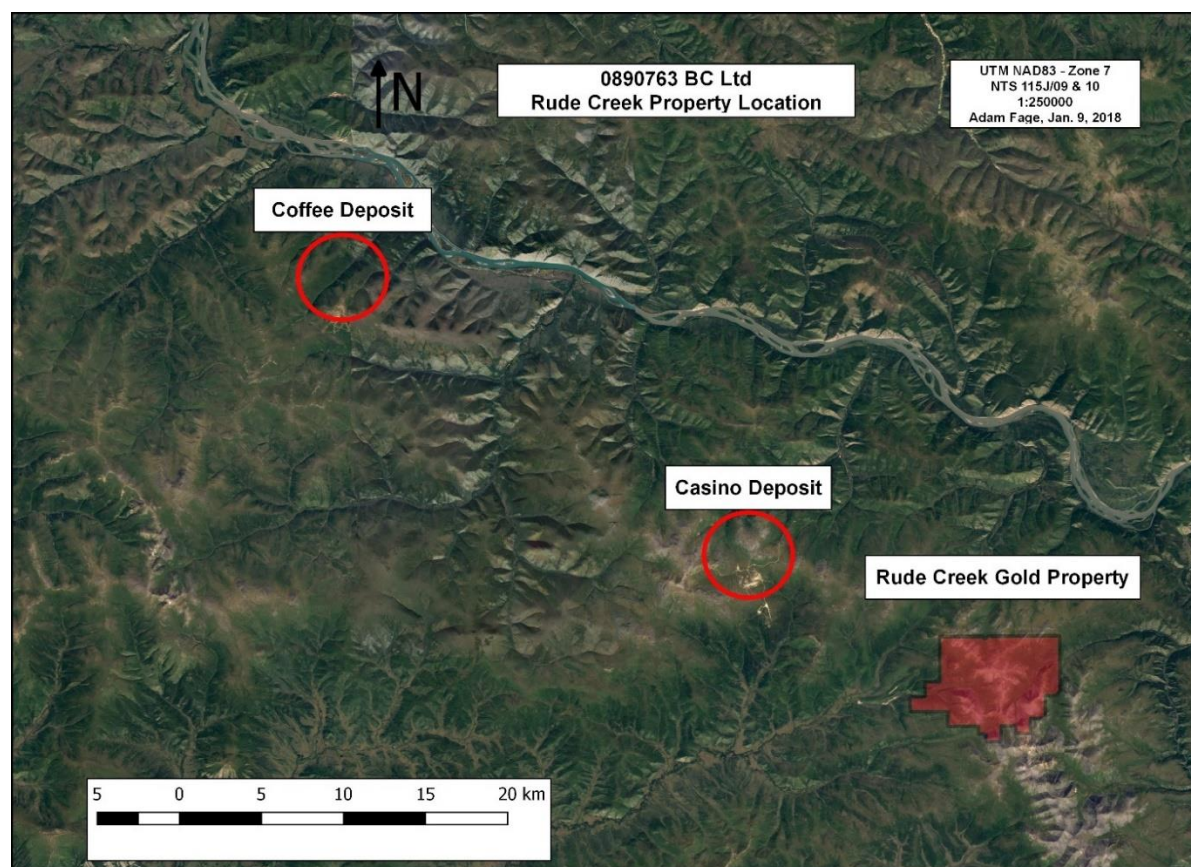


Figure 2: Location of the Rude Creek property in relation to nearby deposits

3 Claim Information

The Rude Creek Gold Project is registered in the Whitehorse Mining district on mapsheet 115J/10. (Figure 3, Appendix A) 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	0890763 BC Ltd – 100%	0890763 BC Ltd
Poker 21-39	YD19021-39	0890763 BC Ltd – 100%	0890763 BC Ltd
Poker 40-56	YD18940-56	0890763 BC Ltd – 100%	0890763 BC Ltd
Poker 65 - 68	YD18965-68	0890763 BC Ltd – 100%	0890763 BC Ltd
Poker 70 - 77	YD18970-77	0890763 BC Ltd – 100%	0890763 BC Ltd
Poker 79 - 89	YD18979-89	0890763 BC Ltd – 100%	0890763 BC Ltd

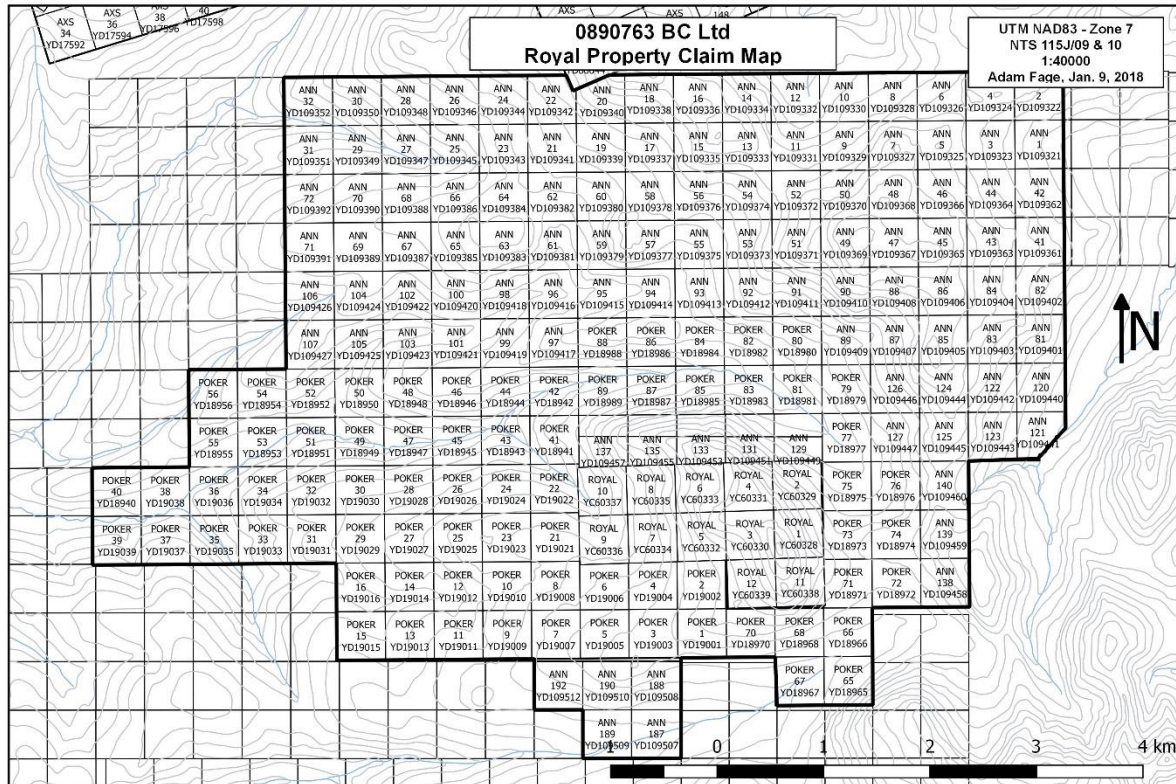


Figure 3: Claim Map of the Rude Creek property

4 History

The Haxe occurrence (Minfile #115j 020) is located 200m east of the 2014 geophysics and soil sample grid on claim Royal 5. A history of the area surrounding this minfile is summarized below by B. Jaworski, in his YMEP application:

“After an extensive data compilation and target selection exercise in early 1999 by Prime Properties Syndicate, the Rude Creek area was first identified as one of six strong intrusive related (Pogo style) target areas within the western portion of the Canadian Yukon Tanana terrain. Previous workers in the Rude Creek area focussed on later stage (Late Cretaceous) Casino style Cu-Mo mineralization. However, geochronological data released in 1995 allowed for a clear spatial and temporal distinction between Mid-Cretaceous and Late-Cretaceous geology at Rude Creek. This distinction justified a new exploration model to be tested in the area.

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-hornblend 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 4). 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 2017, 3 RC holes were drilled at the Tremblay anomaly. 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 represented the best intercept drilled in on the Royal Property to date 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.

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.

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).

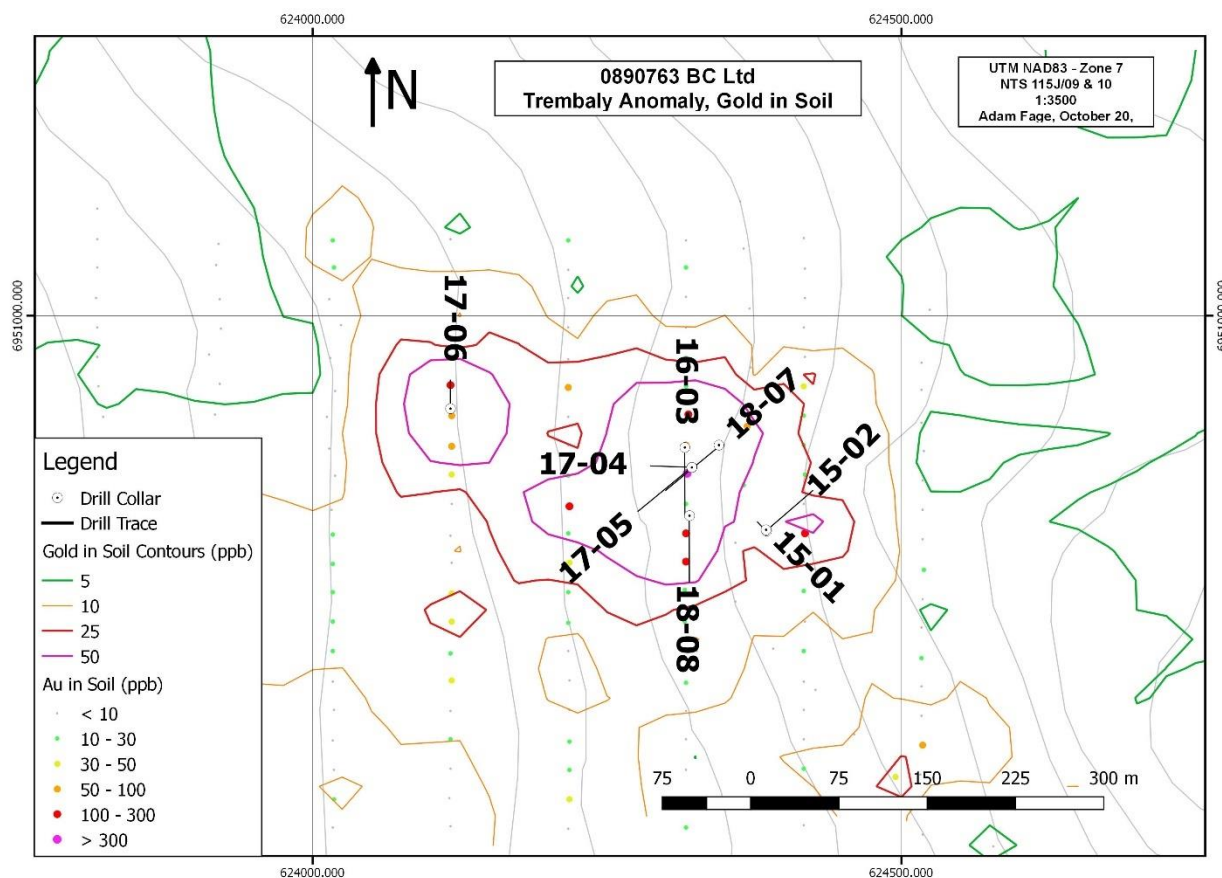


Figure 4: Gold-in-soil contours and drilling at Trombley anomaly

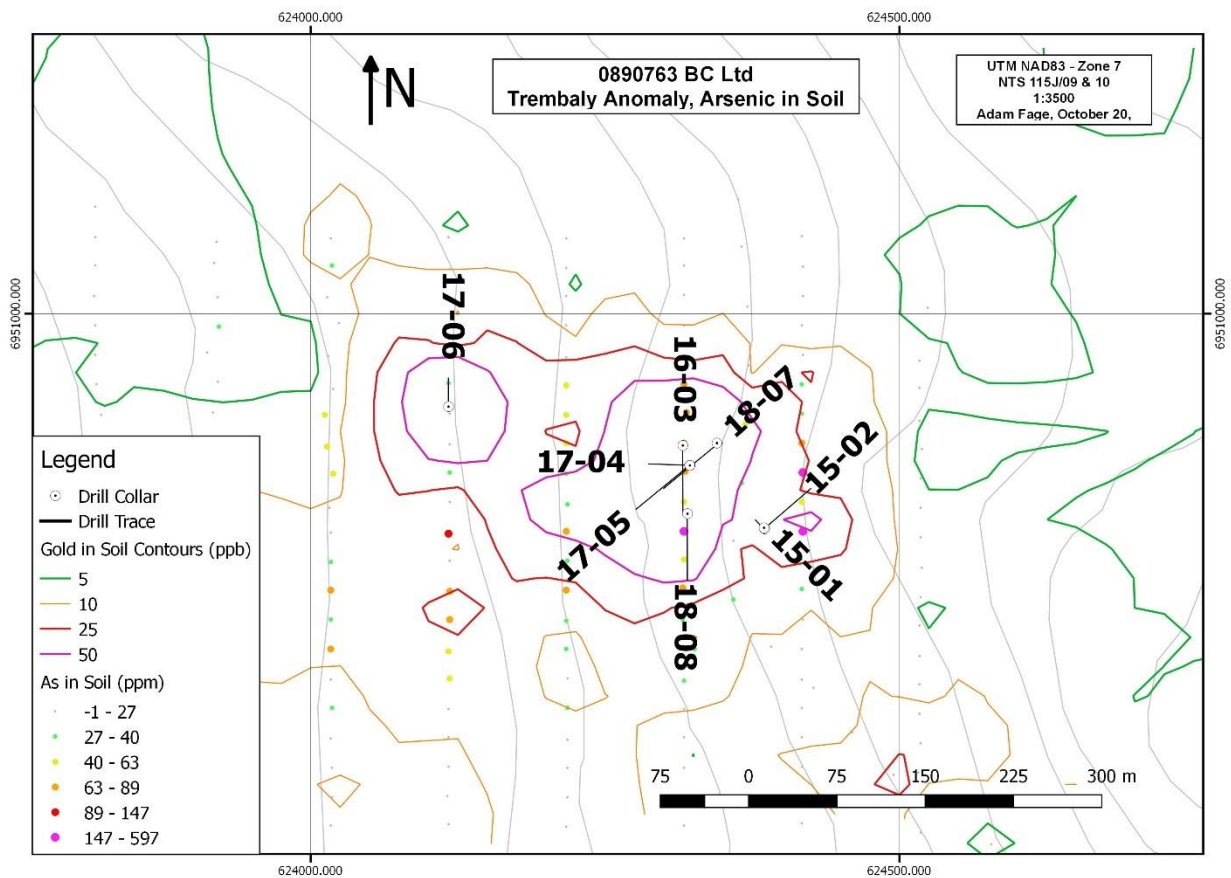


Figure 5: Arsenic-in-soil geochemistry and drilling at Trembaly anomaly

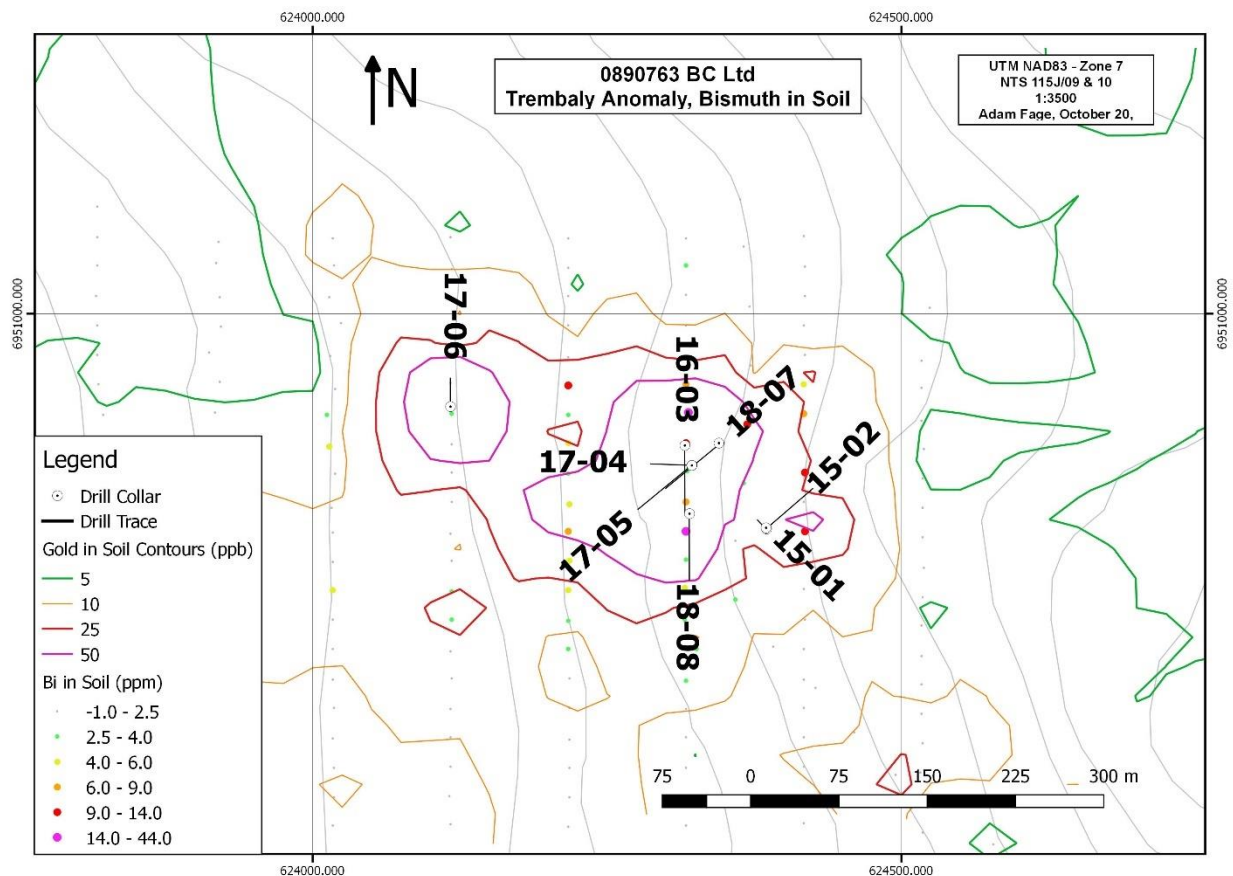


Figure 6: Bismuth-in-soil geochemistry and drilling at Trembaly anomaly

4.3 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 7-11). 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 7-11).

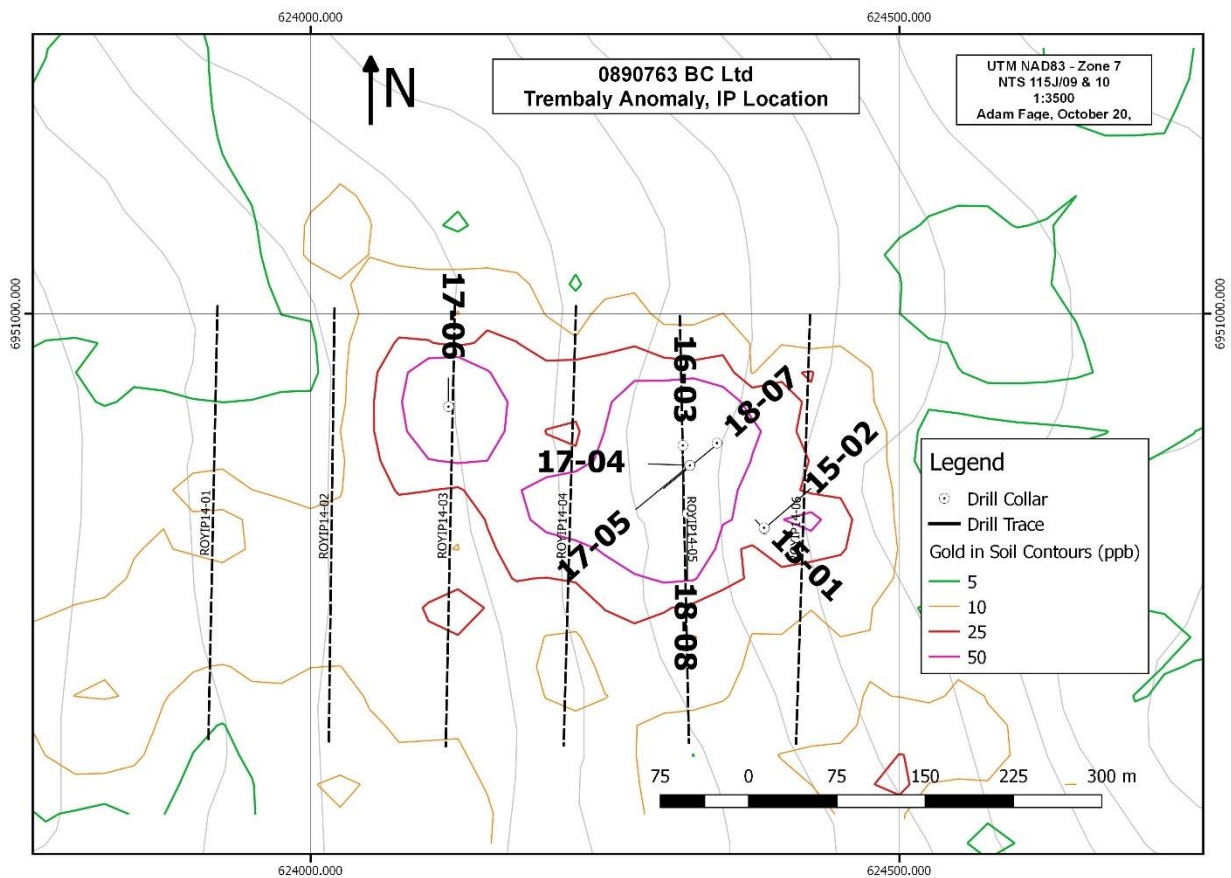


Figure 7: Location of IP Lines

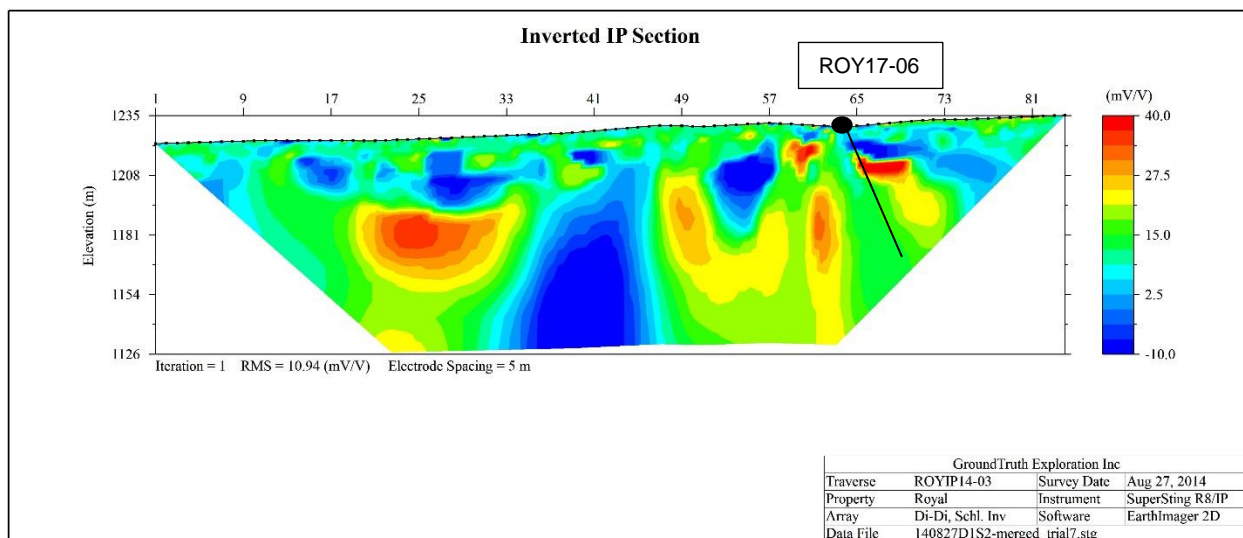
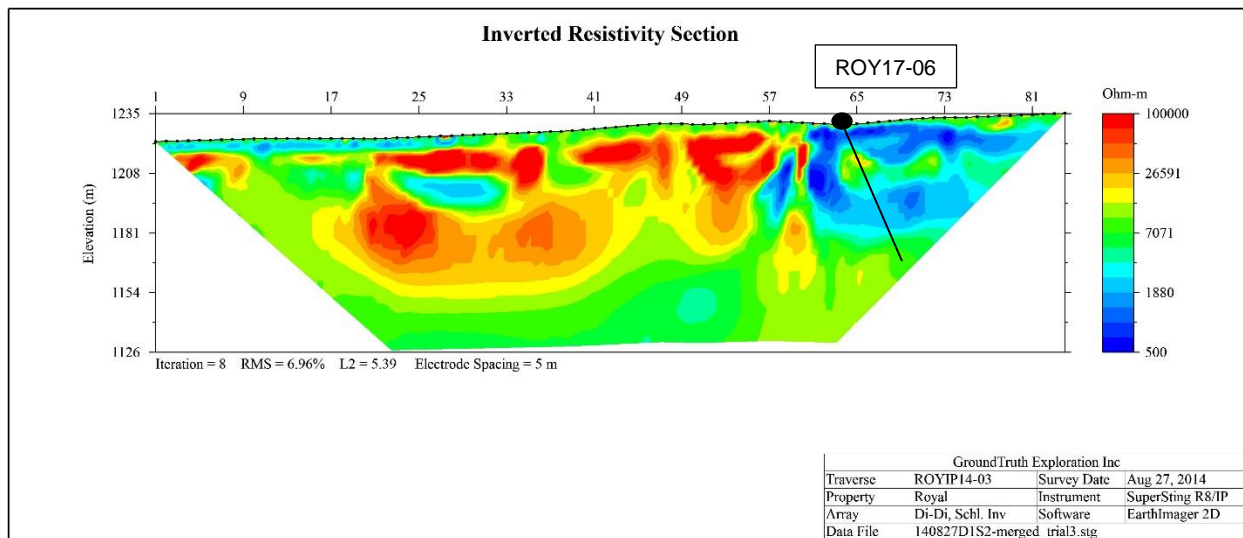


Figure 8: Resistivity and IP Sections for ROYIP14-03, including drill location for ROYRC17-06.

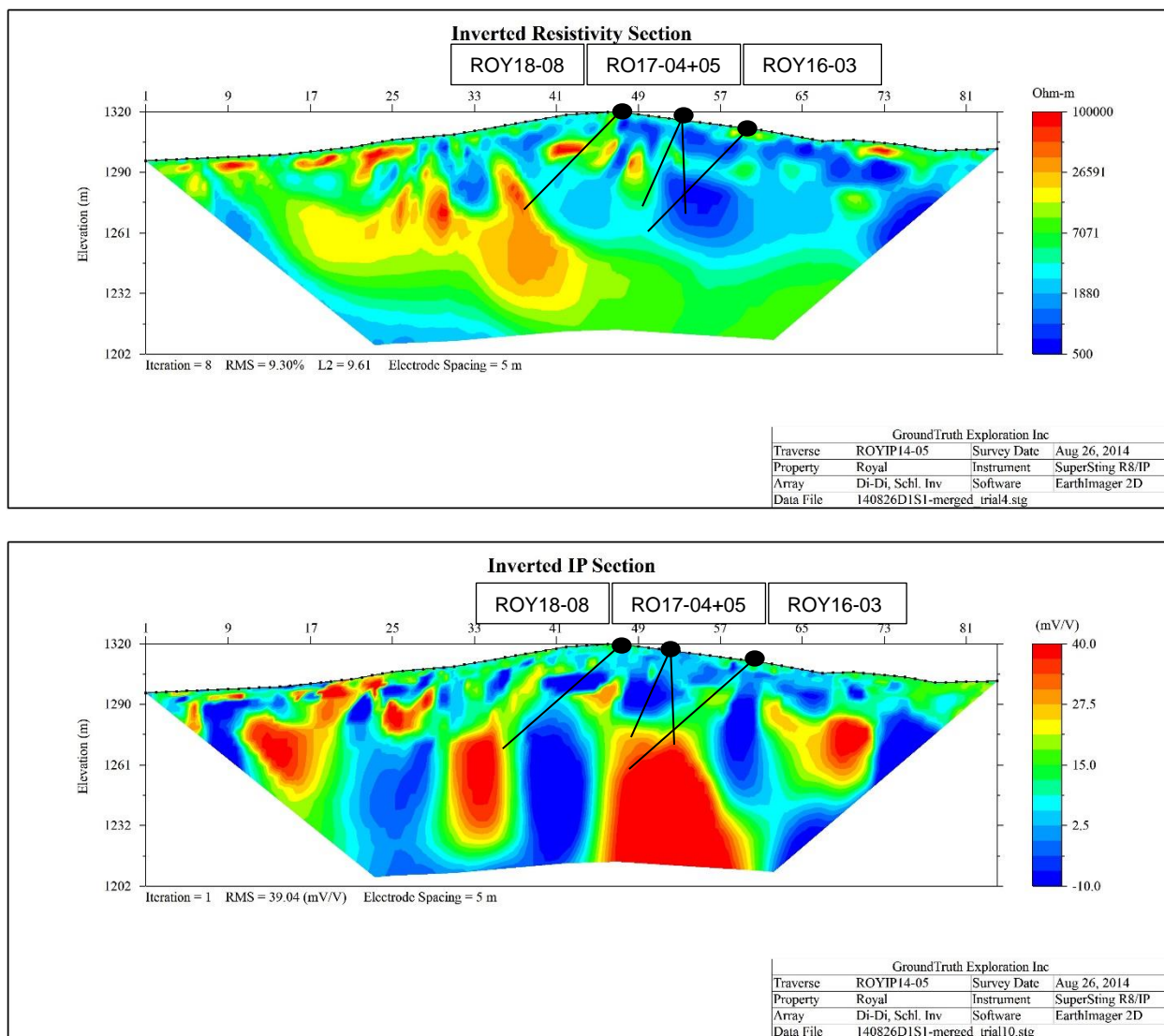


Figure 9: Resistivity and IP Sections for ROYIP14-05, including drill location for ROYRC17-04, ROYRC17-05 and ROYRC18-08.

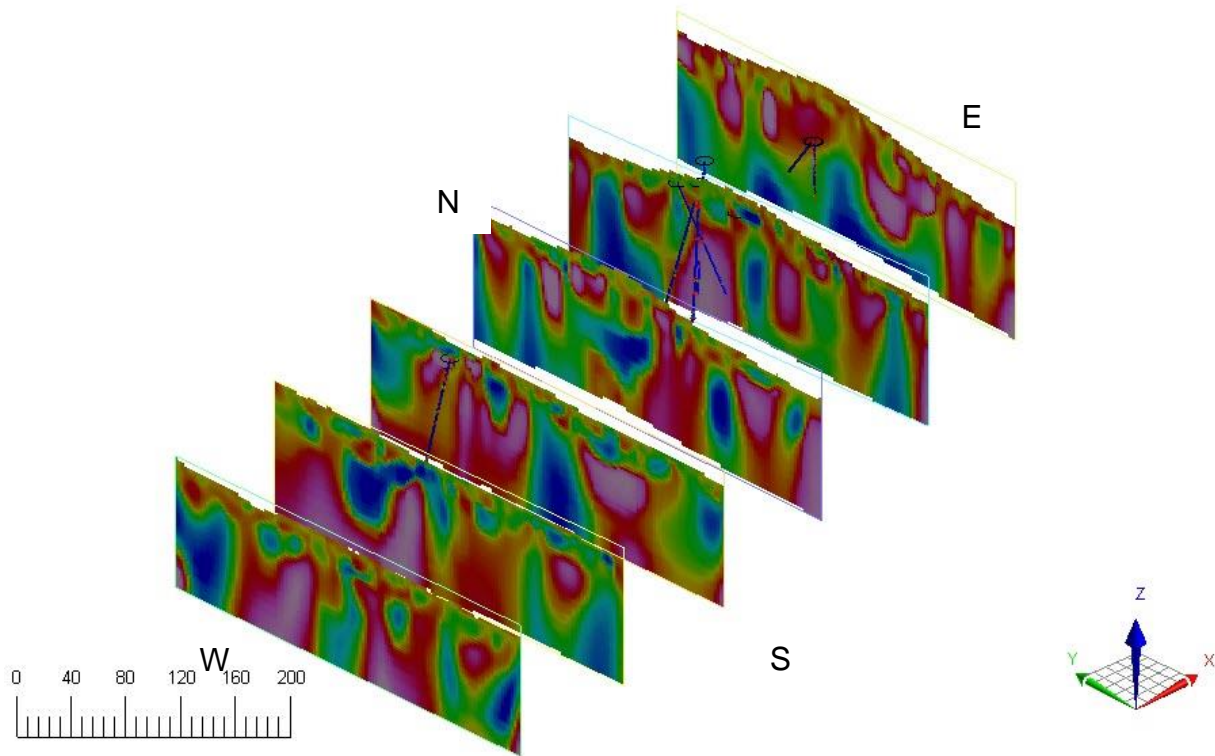


Figure 10: Induced polarization profiles and gold on drill traces in 3D at Trombley anomaly

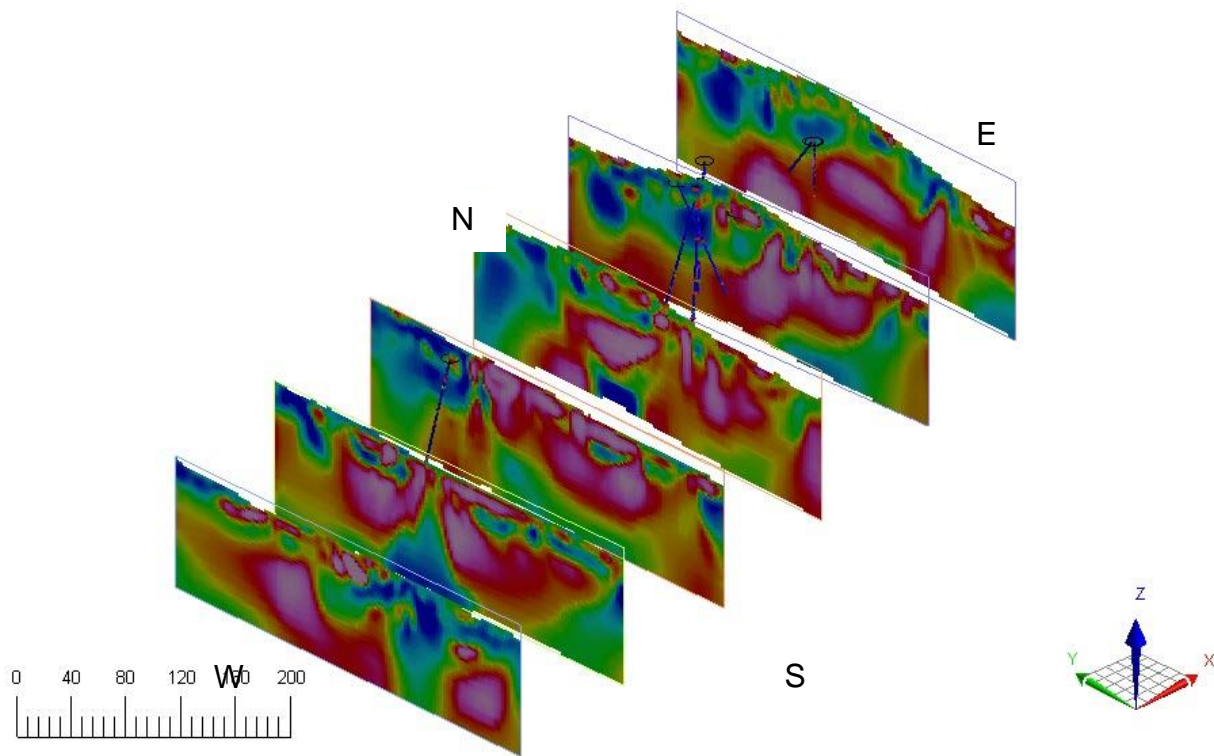


Figure 11: Resistivity profiles and gold on drill traces in 3D at Trombley anomaly

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.

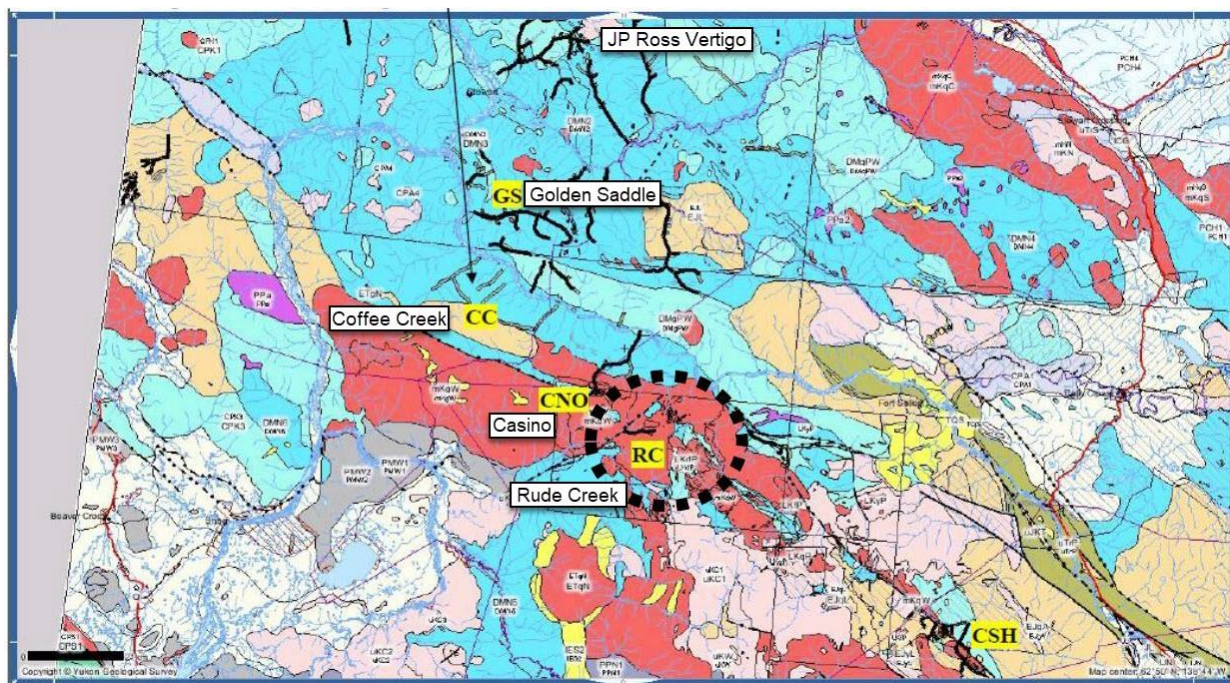


Figure 12: Regional Geology with placer occurrences

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).

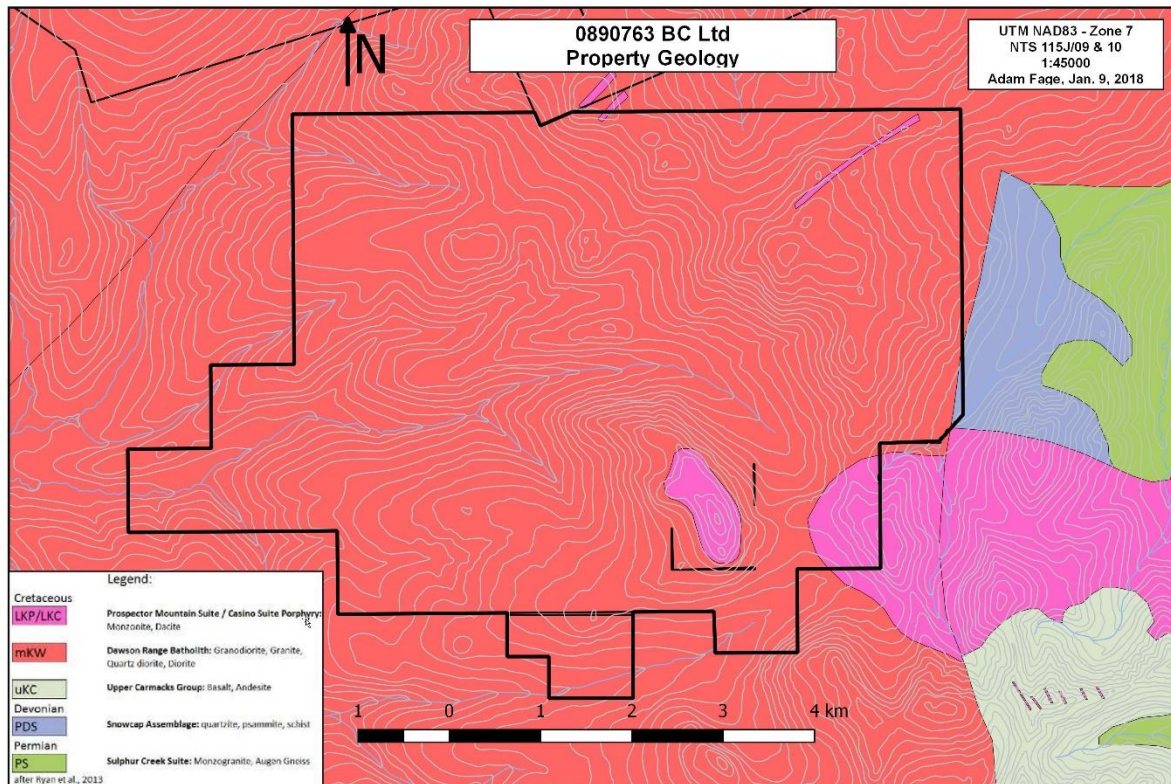


Figure 13: Local Geology of the Rude Creek Property
Source: GSC (Jim Ryan, et al, 2013)

6 Reverse Circulation Drilling Program

6.1 Introduction

Midnight Sun drilled 2 Reverse Circulation holes on July 25-28, 2018.

Drill hole ROYRC18-07 was drilled at an azimuth of 230°, dip of 60 degrees, and a total depth of 97.54m. The hole intersected three sample intervals containing gold greater than 100ppb (520.3ppb Au over 4.57m from 15.24-19.81m including 1176.1ppb Au from 16.76-18.29m). Mineralization in hole ROYRC18-07 is characterized by oxidized granodiorite with 5-10% limonite after pyrite and up to 5% fine grained quartz-carbonate veining. The remainder of the hole encountered fresh to weakly altered granodiorite.

Drill hole ROYRC18-08 was drilled at an azimuth of 180°, dip of 50 degrees, and a total depth of 99.06m. The hole intersected two sample intervals containing gold greater than 50ppb (66.0ppb Au over 3.048m from 62.48-65.53m). Anomalous gold values in hole ROYRC18-08 are characterized by quartz-sericite altered granodiorite with 1-2% pyrite

and up to 5% fine grained quartz-carbonate veining. The remainder of the hole encountered fresh to weakly altered granodiorite.

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 ROYRC18-07 and 08 are located in Appendix D. Geological logging was completed by Linda Lewis. Both holes encountered fresh to strongly altered / mineralized granodiorite throughout their entire lengths. Mineralization in ROYRC18-07 (0.52 g/t Au over 4.57m) 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	Easting	Northing	Azimuth	Dip	Depth(m)
ROYRC18-07	624345	6950890	230	-60	97.54
ROYRC18-08	624320	6950830	180	-50	99.06

7 Discussion and Interpretation

RC Drilling

Hole ROYRC18-07 returned **0.52g/t Au over 4.57m** including **1.17g/t Au over 1.52m** and at surface depths (<19.8m). This higher-grade interval represents a repeat of mineralization similar to the intercepted in 2017 (ROYRC17-05 returned **0.53g/t Au over 13.4m**). ROYRC18-07 also contains elevated arsenic (>50ppm) from surface to

21.3m depth including the drill intercept. 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.

ROYRC18-07 was drilled as an undercut 30m behind ROYRC17-05. A summary of drill intercepts to date (≥ 66 ppb Au) is shown below.

Hole	Year	From (m)	To (m)	Interval (m)	Au (g/t)
ROYRAB15-01	2015	42.67	44.20	1.52	0.066
		83.82	85.34	1.52	0.124
ROYRAB15-02	2015	-	-	-	-
ROYRAB16-03	2016	41.15	48.77	7.62	0.207
Including		45.72	47.24	1.52	0.750
And		79.25	80.77	1.52	0.070
ROYRC17-04	2017	44.50	46.02	1.52	0.100
		67.36	68.88	1.52	0.110
		70.41	71.93	1.52	0.170
		81.08	82.60	1.52	0.070
ROYRC17-05	2017	5.18	18.59	13.41	0.530
Including		5.18	6.71	1.52	2.140
And		12.50	18.59	6.10	0.630
		39.93	41.45	1.52	0.340
		70.41	71.93	1.52	0.210
		79.55	81.08	1.52	0.260
		93.27	94.79	1.52	0.090
		97.84	99.36	1.52	0.360
ROYRC17-06	2017	26.82	28.35	1.52	0.140
		49.68	51.21	1.52	0.090
		92.35	96.93	4.57	0.100
		99.97	101.50	1.52	0.080
ROYRC18-07	2018	2.44	3.96	1.52	0.091
		15.24	19.81	4.57	0.520
Including		16.76	18.29	1.52	1.176
		86.87	88.39	1.52	0.113
ROYRC18-08	2018	62.48	65.53	3.05	0.066

Figure 14: Significant Drill Intercepts, Rude Creek Property

Drill Sections for 2018 drilling are shown below in Figures 15 and 16. A low grade intercept near the bottom of ROYRC18-07 correlates down dip from the 0.53 g/t over 13.41m intercept from ROYRC17-05. The near-surface intercept in ROYRC18-07 (0.52 g/t over 4.57m from 15.24m depth) is interpreted as a newly discovered gold bearing structure.

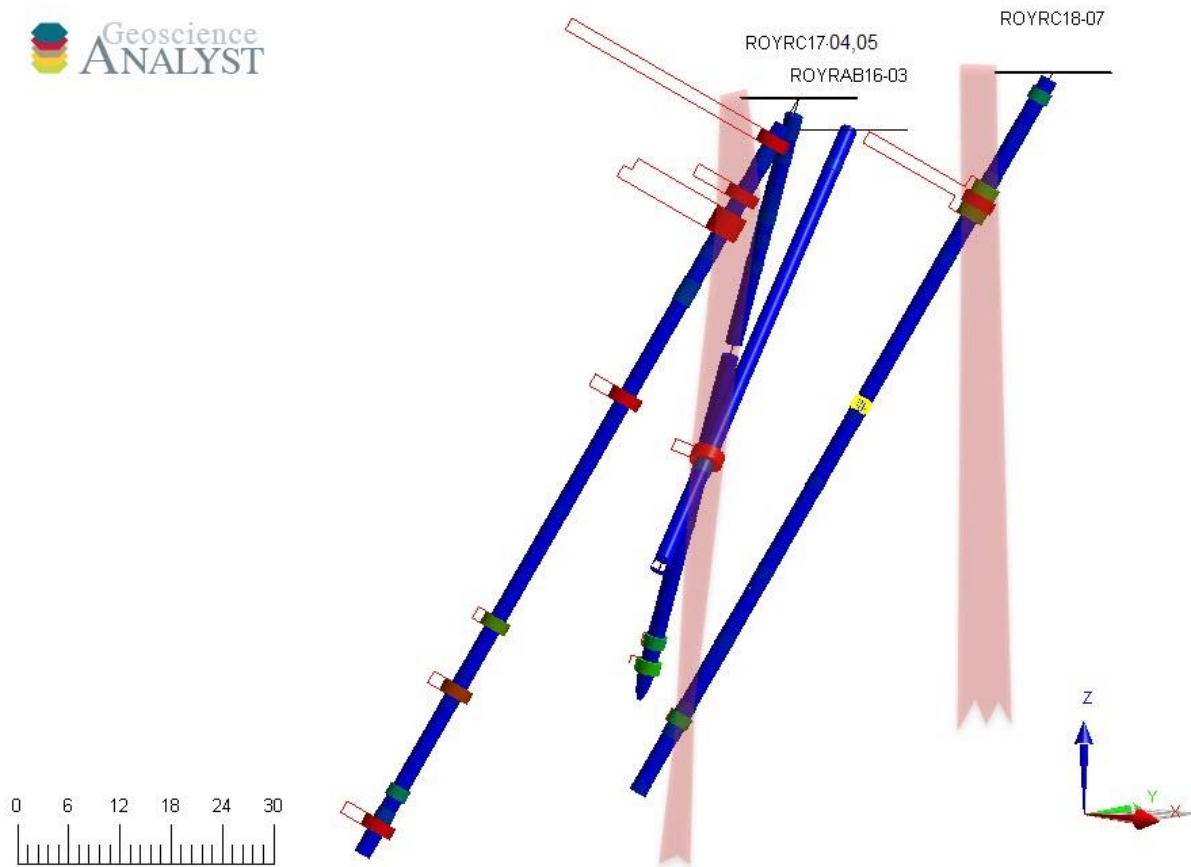


Figure 15: Drill section for holes ROYRC17-05, ROYRC18-07, looking Northeast, Au on Drill Traces.

ROYRC18-08 was drilled to target beneath two >100pb Au in soil samples (152, 122 ppb). The drillhole did not intercept any significant mineralization. It is interpreted that the drillhole may have been drilled parallel to the strike of mineralization responsible for the anomalous gold in soil.

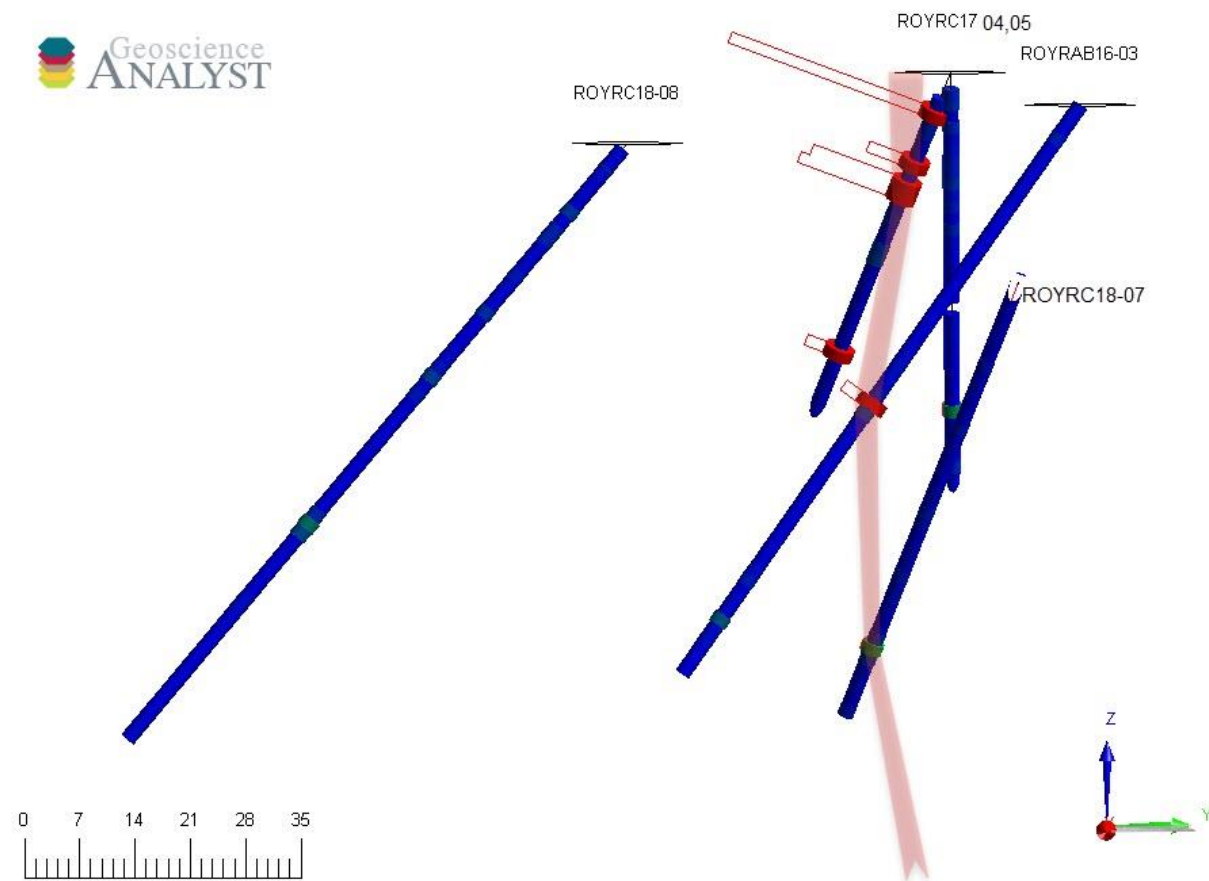


Figure 16: Drill section 624320E, looking East, Au on drill traces.

Exploration results thus far at Rude Creek contain many similarities to the nearby Coffee Creek deposits. These similarities include:

- Multiple parallel >30 ppb gold in soil anomalies.
- Gold in soil anomalies are linear in character
- Gold in soil anomalies are over 300m in length and up to 800m
- Gold in soil anomalies have orientations very near to 0 and 90 degrees
- Drilling beneath gold in Soil anomalies has discovered steeply dipping gold bearing structures.

8 Recommendations

The drill intercept encountered in ROYRC18-07 (**0.52g/t Au over 4.57m**) requires follow-up. It is recommended to step behind the current drillhole by ~30m in order to attempt to intercept the mineralization down-dip. If mineralization is encountered down dip, in a sub-vertical orientation, it will lend support to the exploration model of the Rude Creek Property hosting Coffee-style stacked gold-bearing structures.

The Northeastern gold in soil anomaly within the Rude Creek property is still untested by drilling. This stacked linear gold in soil anomaly is higher tenor and significantly larger than the Trombley anomaly and is highly prospective to host Coffee style mineralization.

9 Costs

Item	Cost
Midnight Sun Invoice for 2 RC Holes including mob and demob	\$114,335.80
Chip Logging	\$2,153.49
Assay of Drill Samples	\$5,213.52
Report Writing	\$588.00

Total \$122,290.81

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

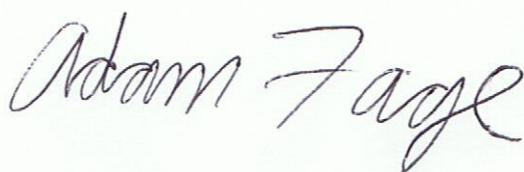
11 Qualification

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 20th day of October, 2018.

Respectfully submitted

Adam Fage

A handwritten signature in black ink on a light green background. The signature reads "Adam Fage" in a cursive, flowing script.

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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Appendix B: Statement of Expenditures

Midnight Sun Drilling Inc.

Suite 413, 108 Elliott Street
Whitehorse, Yukon Y1A 6C4
Canada

Ph: (867) 633-2626

INVOICE

Invoice No.: 10096
Date: Jul 24, 2018
Page: 1
MSD Job #:

PAID

Sold to:

0890763 BC Ltd.
2200 HSBC Building
885 West Georgia St
Vancouver, BC V6C 3E8
Canada

Job Details:

0890763 BC Ltd
2200 HSBC Building
885 West Georgia St
Vancouver, BC V6C 3E8
Canada

For questions regarding this Invoice please contact accounts@midnightsundrilling.com

Quantity	Unit	Description	Tax	Unit Price	Amount
1	Lump Sum	Contract Prepayment		40,000.00	40,000.00
		Subtotal:			40,000.00
Comment: Prepayment as per Contract				Invoice Total	40,000.00
Sold By:					

Midnight Sun Drilling Inc.

Suite 413, 108 Elliott Street
 Whitehorse, Yukon Y1A 6C4
 Canada

RECEIPT

Receipt No.:

109

Aug 01, 2018

Amount Received

\$74,335.80

From:

0890763 BC Ltd.
 2200 HSBC Building
 885 West Georgia St
 Vancouver, BC V6C 3E8
 Canada

Signature _____

Midnight Sun Drilling Inc.

0890763 BC Ltd.

Aug 01, 2018

Receipt No.:

109

	Discount	Amount Received		Discount	Amount Received
10100		74,335.80			

Total

74,335.80

Midnight Sun Drilling Inc.

0890763 BC Ltd.

Aug 01, 2018

Receipt No.:

109

	Discount	Amount Received		Discount	Amount Received
10100		74,335.80			

Total

74,335.80



**BUREAU
VERITAS**

Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St.
Vancouver, BC Canada V6P 6E5
Phone 604 253 3158 Fax 604 253 1716
GST # 843013921 RT
QST # 1219972641

MINERALS

Bill To: 0890763 B.C. Ltd
1600-609 Granville Street
Vancouver, BC V7Y 1C3
CANADA

Invoice Date: September 17, 2018
Invoice Number: **VANI311455**
Submitted by: Bart Jaworski
Email: b.jaworski@groupelevenresources.com
Job Number: WHI18000677
PO Number:
Project Code: Rude Creek
Shipment ID: ROYRC_20180817
Quote Number:

Item	Package	Description	Sample No.	Unit Price	Amount
1	PRP70-250	Crush and Pulverize 250 g	128	\$7.55	\$966.40
2	PRP70-250	Overweight crushing charges per 100g	2278	\$0.07	\$159.46
3	SPTRF	Riffle splitting of samples	4	\$2.30	\$9.20
4	PUL85	Pulverize 250g to 85% 200 mesh.	4	\$3.90	\$15.60
5	SLBHP	Sort, label and box pulp samples	8	\$1.00	\$8.00
6	AQ202	30g - 36 element ICP ES/MS	140	\$24.30	\$3,402.00
7	DISPL	Disposal of pulps	140	\$0.15	\$21.00
8	DISRJ	Disposal of rejects	128	\$0.70	\$89.60
9	SHP-01	Per sample charge for branch shipment	140	\$2.10	\$294.00
			Net Total		\$4,965.26
			GST		\$248.26
			Grand Total	CAD	\$5,213.52

Invoice Stated In Canadian Dollars

Payment Terms:

Due upon receipt of invoice. Please pay the last amount shown on the invoice.

For **cheque payments**, please remit payable to:
Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St.
Vancouver BC, V6P 6E5

Please specify invoice number on cheque remittance.

For electronic payments or any enquiries, please contact acct.receivable@ca.bureauveritas.com.

Adam Fage Consulting

Oct 2018 Invoice

Date:
Oct 22 2018

Invoice #
AF18-009

Invoice to:
0890763 BC Ltd.
1600-609 Granville Street
Vancouver BC V7Y 1C3

Description	Amount
Report Writing: 2018 Rude Creek Assessment Report: 8Hours @ \$70.00/ hr	\$560.00

Please address Cheques to:
Adam Fage
615 Robin rd.
Vernon BC V1B 3B2

Subtotal	\$560.00
PST 7%	\$0.00
GST 5%	\$28.00
Total Due	\$588.00

Appendix C: 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: August 17, 2018
Report Date: September 17, 2018
Page: 1 of 6

CERTIFICATE OF ANALYSIS

WHI18000677.1

CLIENT JOB INFORMATION

Project: Rude Creek
Shipment ID: ROYRC_20180817
P.O. Number
Number of Samples: 141

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	128	Crush, split and pulverize 250 g rock to 200 mesh			WHI
SPTRF	4	Split samples by riffle splitter			WHI
PUL85	4	Pulverize to 85% passing 200 mesh			WHI
SLBHP	8	Sort, label and box pulps			WHI
AQ202	140	1:1:1 Aqua Regia digestion ICP-MS analysis	30	Completed	VAN
SHP01	140	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS


JEFFREY CANNON
Geochemistry Department Supervisor

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

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Vancouver British Columbia V7Y 1C3 Canada

Project: Rude Creek
Report Date: September 17, 2018

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CERTIFICATE OF ANALYSIS

WHI18000677.1

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	1	0.01	0.001	
W811002	Reverse	2.51	6.5	19.7	22.7	71	0.3	15.9	5.8	903	2.07	80.6	5.6	16.1	13	0.5	2.5	1.9	16	0.32	0.071
W811003	Reverse	1.89	1.0	21.6	27.2	70	0.9	5.6	5.6	694	3.02	69.6	90.6	14.4	22	0.8	2.0	6.0	22	0.79	0.073
W811004	Reverse	2.60	1.0	9.2	7.7	43	0.2	5.1	3.8	652	3.26	31.5	7.2	15.0	36	0.2	0.9	1.3	25	1.41	0.082
W811005	Reverse	1.97	1.3	4.0	30.4	46	0.2	3.8	2.4	1200	1.70	45.4	2.3	18.0	34	0.6	0.9	0.5	14	1.34	0.062
W811006	Reverse	0.91	1.0	3.0	67.9	74	0.3	1.8	1.5	475	0.86	134.6	12.4	19.9	30	1.1	0.6	0.4	4	1.24	0.038
W811007	Reverse	1.94	3.6	1.4	43.0	59	0.1	1.9	2.1	766	1.51	244.5	11.0	16.6	39	1.1	0.3	0.3	8	1.98	0.080
W811008	Reverse	2.24	1.2	6.3	41.8	70	0.2	2.9	4.8	696	2.29	252.7	7.5	16.3	37	1.1	0.5	0.3	13	1.66	0.078
W811009	Reverse	2.14	1.1	5.9	31.6	57	0.2	2.1	2.3	745	2.05	114.7	2.9	18.2	50	0.8	0.7	0.3	18	1.86	0.076
W811010	Reverse	2.42	0.7	4.0	8.9	37	<0.1	2.5	4.0	559	2.27	20.0	0.6	16.5	52	0.2	1.2	0.4	24	1.48	0.084
W811010A	Rock Pulp	0.05	3.0	174.7	11.2	49	0.2	148.9	17.3	477	2.61	4.4	685.5	4.0	74	<0.1	0.6	0.2	73	2.06	0.046
W811011	Reverse	2.12	0.8	16.2	30.7	62	0.9	3.5	6.6	589	2.62	159.6	24.8	16.3	35	1.1	2.7	5.1	16	1.47	0.080
W811011A	Rock DUP		0.9	15.8	30.7	67	1.0	3.5	6.6	628	2.69	166.6	68.7	16.1	35	1.1	3.0	5.6	16	1.51	0.087
W811012	Reverse	3.41	1.7	76.1	76.6	100	3.2	4.4	9.6	552	3.56	208.6	174.7	16.4	34	1.7	2.2	6.4	18	1.29	0.071
W811013	Reverse	3.04	3.0	159.9	254.9	126	15.2	7.7	12.7	551	6.56	518.3	1176.1	14.5	38	2.5	6.7	143.1	32	0.82	0.071
W811014	Reverse	2.29	1.1	7.5	20.0	38	0.4	3.0	3.9	595	2.23	24.0	210.0	18.4	43	0.2	1.1	2.8	23	1.65	0.082
W811015	Reverse	3.28	1.2	23.0	34.7	45	1.1	4.7	6.2	785	2.29	54.8	12.0	15.3	38	0.5	2.5	4.3	20	1.50	0.090
W811016	Reverse	3.49	1.3	4.4	13.6	33	0.1	3.0	4.5	612	2.16	17.6	3.0	15.0	62	0.1	0.5	0.7	30	1.66	0.081
W811017	Reverse	2.26	1.2	9.8	21.0	38	0.2	3.8	6.9	658	2.30	18.1	4.7	15.3	53	0.3	0.8	1.2	33	1.91	0.081
W811018	Reverse	2.50	1.0	11.0	16.9	41	0.1	4.5	11.2	718	2.48	11.4	12.4	16.6	88	0.3	1.2	3.5	30	1.82	0.079
W811019	Reverse	1.64	1.4	7.7	10.3	33	0.1	3.6	5.9	644	2.31	8.4	4.2	20.1	59	<0.1	0.5	2.5	30	1.80	0.079
W811020	Reverse	2.50	1.2	4.1	7.8	38	<0.1	3.0	3.2	561	2.46	3.1	1.4	22.8	48	<0.1	0.5	0.3	35	1.57	0.073
W811020A	Rock Pulp	0.05	2.3	92.2	4.0	40	0.1	4.9	10.2	386	2.74	0.8	2.5	2.7	75	<0.1	0.1	<0.1	100	0.94	0.072
W811021	Reverse	1.88	1.3	7.2	7.7	32	<0.1	3.9	7.8	665	2.41	13.6	6.6	16.1	40	0.1	1.5	0.7	33	1.71	0.077
W811022	Reverse	2.39	1.4	1.6	7.8	39	<0.1	3.7	3.0	622	2.40	3.5	1.2	27.6	42	0.1	0.8	0.2	37	1.46	0.070
W811023	Reverse	3.03	1.2	6.2	6.9	39	0.1	3.1	2.9	654	2.48	7.7	1.5	16.5	38	0.3	0.6	0.8	30	1.77	0.078
W811024	Reverse	2.99	1.6	2.9	8.9	41	<0.1	4.1	4.6	576	2.81	8.3	4.9	13.1	50	0.1	1.1	0.2	50	0.93	0.075
W811025	Reverse	3.19	1.8	1.8	8.8	48	<0.1	4.4	4.9	681	2.94	7.7	<0.5	18.9	47	0.2	1.6	0.1	53	0.78	0.068
W811026	Reverse	2.80	2.0	2.2	6.6	49	<0.1	4.3	6.3	609	2.74	7.7	<0.5	14.7	39	<0.1	1.2	0.1	54	0.60	0.067
W811027	Reverse	3.46	6.3	4.4	24.9	72	0.2	4.2	7.0	667	2.55	9.5	1.0	16.7	35	0.4	1.6	0.3	50	0.78	0.075
W811028	Reverse	3.60	2.0	2.7	23.7	84	0.1	4.2	8.1	620	2.67	10.1	2.8	16.5	47	0.6	1.0	0.2	52	0.81	0.079



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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

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CERTIFICATE OF ANALYSIS

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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		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	0.01	0.01	0.05	1	0.5	0.2	
W811002	Reverse	20	37	0.15	199	0.004	9	1.06	0.017	0.29	1.8	<0.01	1.9	0.3	<0.05	2	<0.5	<0.2
W811003	Reverse	19	8	0.23	136	0.004	5	1.27	0.013	0.22	1.4	<0.01	2.8	0.3	<0.05	3	<0.5	<0.2
W811004	Reverse	20	9	0.34	102	0.002	4	1.51	0.018	0.25	1.1	<0.01	2.9	0.4	<0.05	4	<0.5	<0.2
W811005	Reverse	19	9	0.17	224	0.001	7	0.95	0.017	0.27	1.8	<0.01	1.6	0.3	<0.05	2	<0.5	<0.2
W811006	Reverse	13	6	0.07	122	0.001	9	0.65	0.005	0.28	1.6	<0.01	0.8	0.3	<0.05	1	<0.5	<0.2
W811007	Reverse	24	6	0.10	110	0.001	9	0.87	0.006	0.28	0.5	<0.01	1.3	0.4	<0.05	1	<0.5	<0.2
W811008	Reverse	22	6	0.18	118	0.001	9	1.22	0.009	0.32	0.5	<0.01	1.9	0.4	<0.05	2	<0.5	<0.2
W811009	Reverse	24	8	0.22	244	0.002	7	1.16	0.021	0.28	0.8	<0.01	1.9	0.4	<0.05	3	<0.5	<0.2
W811010	Reverse	26	7	0.38	291	<0.001	5	1.38	0.024	0.25	0.6	<0.01	1.8	0.4	<0.05	4	<0.5	<0.2
W811010A	Rock Pulp	10	110	1.53	105	0.084	1	2.91	0.342	0.22	1.2	0.03	3.0	0.1	0.07	6	<0.5	<0.2
W811011	Reverse	21	6	0.19	150	0.001	6	1.27	0.008	0.29	1.2	<0.01	2.0	0.4	<0.05	3	<0.5	<0.2
W811011A	Rock DUP	21	6	0.20	151	0.001	5	1.34	0.007	0.30	1.2	<0.01	2.1	0.5	<0.05	3	<0.5	<0.2
W811012	Reverse	28	6	0.12	165	0.002	8	1.14	0.007	0.30	11.1	0.01	2.1	0.4	<0.05	3	<0.5	<0.2
W811013	Reverse	25	6	0.23	208	0.001	5	1.37	0.006	0.24	16.1	0.01	2.6	0.3	<0.05	6	<0.5	0.2
W811014	Reverse	29	8	0.30	226	<0.001	4	1.38	0.014	0.21	0.6	<0.01	2.1	0.2	<0.05	3	<0.5	<0.2
W811015	Reverse	29	8	0.22	216	<0.001	4	1.36	0.011	0.25	1.0	<0.01	2.2	0.3	<0.05	3	<0.5	<0.2
W811016	Reverse	26	11	0.31	175	0.011	6	1.19	0.033	0.22	0.5	<0.01	2.6	0.2	<0.05	4	<0.5	<0.2
W811017	Reverse	27	12	0.41	154	0.005	5	1.32	0.035	0.24	0.6	<0.01	2.7	0.3	<0.05	5	<0.5	<0.2
W811018	Reverse	28	11	0.52	337	0.001	3	1.66	0.022	0.21	0.4	<0.01	2.4	0.2	<0.05	6	<0.5	<0.2
W811019	Reverse	28	12	0.38	126	0.003	7	1.20	0.044	0.27	0.6	<0.01	2.4	0.3	<0.05	5	<0.5	<0.2
W811020	Reverse	34	12	0.45	107	0.010	7	1.29	0.053	0.23	0.4	<0.01	3.0	0.3	<0.05	5	<0.5	<0.2
W811020A	Rock Pulp	8	12	0.75	148	0.115	<1	1.64	0.188	0.22	2.9	<0.01	2.7	<0.1	<0.05	5	<0.5	<0.2
W811021	Reverse	27	12	0.44	99	0.005	4	1.38	0.033	0.24	0.5	<0.01	2.9	0.3	<0.05	6	<0.5	<0.2
W811022	Reverse	18	13	0.49	78	0.041	4	1.24	0.048	0.22	0.6	<0.01	2.8	0.3	<0.05	6	<0.5	<0.2
W811023	Reverse	25	12	0.45	90	0.003	5	1.33	0.038	0.25	0.5	<0.01	2.3	0.3	<0.05	6	<0.5	<0.2
W811024	Reverse	19	15	0.52	178	0.103	3	1.23	0.071	0.36	0.9	<0.01	4.4	0.5	<0.05	6	<0.5	<0.2
W811025	Reverse	27	17	0.68	200	0.127	2	1.32	0.076	0.46	0.9	<0.01	4.4	0.5	<0.05	5	<0.5	<0.2
W811026	Reverse	29	16	0.65	362	0.167	1	1.19	0.114	0.56	1.2	<0.01	3.8	0.6	<0.05	5	<0.5	<0.2
W811027	Reverse	28	17	0.69	286	0.144	2	1.25	0.079	0.48	10.4	<0.01	3.1	0.6	<0.05	5	<0.5	<0.2
W811028	Reverse	23	18	0.70	368	0.163	2	1.22	0.092	0.59	0.9	<0.01	4.3	0.7	<0.05	5	<0.5	<0.2

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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	ppb	ppm	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	1	0.01	0.001	
W811029	Reverse	2.34	2.0	2.0	6.4	46	<0.1	3.7	7.3	590	2.53	9.6	1.0	12.2	43	<0.1	0.9	0.1	50	0.66	0.055
W811030	Reverse	2.21	2.0	1.6	6.3	46	<0.1	4.1	8.0	558	2.77	10.7	0.8	28.5	61	<0.1	0.9	0.1	54	0.72	0.058
W811031	Reverse	1.76	2.4	2.3	5.6	39	<0.1	4.7	6.8	632	2.80	9.1	<0.5	17.5	48	<0.1	0.8	0.2	53	0.67	0.069
W811032	Reverse	1.37	1.5	13.4	16.0	53	0.3	4.7	11.2	637	3.24	35.7	12.9	17.8	54	0.4	1.9	35.3	44	1.13	0.066
W811033	Reverse	1.55	2.1	2.6	7.7	38	<0.1	4.5	6.7	635	2.79	9.6	1.0	16.5	66	<0.1	0.8	0.9	49	0.73	0.065
W811034	Reverse	1.67	1.6	1.9	6.2	43	<0.1	4.4	5.6	551	2.61	7.5	<0.5	16.7	41	<0.1	0.7	0.4	50	0.61	0.062
W811035	Reverse	3.22	2.0	2.0	6.1	39	<0.1	4.4	6.9	583	2.80	6.9	<0.5	16.1	46	<0.1	0.9	0.2	52	0.67	0.056
W811036	Reverse	2.21	2.0	2.8	10.8	41	<0.1	4.2	7.7	531	2.82	6.4	<0.5	16.9	40	0.2	0.7	0.2	54	0.85	0.062
W811037	Reverse	2.69	1.6	2.1	5.3	40	<0.1	4.2	5.7	542	2.88	7.3	<0.5	15.8	40	<0.1	1.0	0.3	50	0.92	0.058
W811038	Reverse	2.77	2.0	32.6	17.1	44	0.4	4.2	9.1	794	3.15	74.7	16.9	14.3	42	0.2	1.5	19.2	35	1.91	0.061
W811039	Reverse	2.44	1.7	5.8	9.8	37	<0.1	3.9	4.9	516	2.68	11.2	<0.5	15.9	61	0.1	1.2	0.4	41	1.19	0.060
W811040	Reverse	2.10	2.2	5.5	8.8	41	<0.1	3.9	10.6	529	3.00	18.6	2.4	13.3	82	<0.1	1.6	0.4	47	0.84	0.061
W811040A	Rock Pulp	0.05	3.1	180.1	10.9	50	0.2	145.3	16.4	509	2.62	4.8	670.8	4.3	78	0.1	0.6	0.2	71	2.07	0.041
W811041	Reverse	2.34	1.9	2.9	9.1	42	<0.1	4.6	3.3	598	2.78	10.5	1.9	17.6	86	<0.1	2.0	0.2	46	0.91	0.076
W811041A	Rock DUP		1.8	3.4	8.3	39	<0.1	4.4	3.6	539	2.84	10.2	3.4	17.3	81	0.1	1.8	0.2	46	0.92	0.057
W811042	Reverse	1.68	2.4	4.5	7.2	38	<0.1	4.3	4.0	639	3.20	11.3	0.6	13.7	67	<0.1	1.5	0.2	56	0.86	0.065
W811043	Reverse	2.30	1.8	3.2	6.0	37	<0.1	4.3	3.5	599	3.05	8.5	1.1	13.5	58	<0.1	1.2	0.2	55	0.84	0.060
W811044	Reverse	2.23	2.0	12.5	7.4	46	<0.1	4.9	3.9	750	2.95	9.6	5.5	18.0	55	<0.1	1.0	0.3	44	1.16	0.061
W811045	Reverse	2.30	2.0	7.2	7.8	35	<0.1	3.8	4.4	568	2.86	13.9	4.9	13.2	45	<0.1	1.1	0.1	46	1.04	0.067
W811046	Reverse	1.71	1.9	10.9	13.2	39	0.2	3.5	6.1	516	2.76	15.2	17.5	14.7	43	0.2	1.0	5.6	37	1.15	0.056
W811047	Reverse	3.37	2.0	9.5	8.8	33	<0.1	4.4	6.0	582	2.68	16.5	8.9	18.2	49	0.1	1.1	1.7	41	1.16	0.069
W811048	Reverse	3.23	1.9	6.8	9.2	36	<0.1	3.6	6.7	599	2.48	14.4	1.4	16.4	111	0.2	0.6	0.4	31	1.79	0.070
W811049	Reverse	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.
W811050	Reverse	2.30	1.6	11.3	10.6	38	<0.1	3.6	8.6	636	2.64	16.1	4.3	16.8	97	0.1	0.7	0.5	35	1.64	0.060
W811050A	Rock Pulp	0.05	2.2	114.0	3.8	31	0.1	4.4	9.4	384	2.63	1.2	6.2	3.2	71	<0.1	<0.1	<0.1	96	0.86	0.062
W811051	Reverse	2.80	1.7	9.2	8.3	44	<0.1	3.6	6.3	694	3.11	12.4	8.3	16.3	51	<0.1	0.5	1.5	38	1.58	0.062
W811052	Reverse	1.43	8.6	13.2	8.6	39	0.1	3.5	8.6	642	3.07	15.5	19.2	15.3	47	<0.1	0.8	1.7	44	1.46	0.064
W811053	Reverse	1.55	2.4	9.5	7.9	46	<0.1	3.9	7.7	664	3.11	14.9	9.2	16.4	51	0.1	0.7	2.7	43	1.39	0.077
W811054	Reverse	1.43	1.9	14.2	13.3	35	0.2	4.0	8.2	611	2.94	14.1	9.1	14.6	87	0.2	1.0	21.6	39	1.45	0.072
W811055	Reverse	0.98	0.7	9.6	9.3	37	<0.1	2.7	4.2	529	2.81	11.4	1.8	14.2	73	<0.1	1.1	0.5	40	1.14	0.066



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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: September 17, 2018

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CERTIFICATE OF ANALYSIS

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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	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	0.01	0.01	0.01	0.05	1	0.5	0.2	
W811029	Reverse	20	15	0.63	332	0.157	2	1.11	0.093	0.55	1.1	<0.01	3.3	0.6	<0.05	4	<0.5	<0.2
W811030	Reverse	18	17	0.65	301	0.165	2	1.19	0.096	0.56	1.0	<0.01	3.7	0.7	<0.05	4	<0.5	<0.2
W811031	Reverse	21	19	0.60	280	0.162	2	1.15	0.106	0.57	1.2	<0.01	4.0	0.7	<0.05	4	<0.5	<0.2
W811032	Reverse	15	15	0.56	133	0.062	4	1.39	0.056	0.29	1.0	<0.01	3.1	0.5	<0.05	6	<0.5	<0.2
W811033	Reverse	18	19	0.59	265	0.149	2	1.22	0.110	0.50	1.4	<0.01	4.0	0.6	<0.05	5	<0.5	<0.2
W811034	Reverse	22	17	0.62	311	0.165	2	1.22	0.133	0.59	1.0	<0.01	3.1	0.6	<0.05	4	<0.5	<0.2
W811035	Reverse	23	17	0.63	322	0.171	2	1.31	0.160	0.67	0.9	<0.01	4.1	0.6	<0.05	5	<0.5	<0.2
W811036	Reverse	25	20	0.67	294	0.172	2	1.23	0.112	0.60	0.9	<0.01	3.8	0.6	<0.05	4	<0.5	<0.2
W811037	Reverse	20	18	0.61	192	0.116	3	1.26	0.087	0.41	0.9	<0.01	3.9	0.5	<0.05	5	<0.5	<0.2
W811038	Reverse	17	14	0.47	89	0.022	7	1.55	0.057	0.33	1.1	<0.01	3.6	0.4	0.15	6	<0.5	<0.2
W811039	Reverse	15	17	0.49	80	0.087	5	1.26	0.068	0.23	1.0	<0.01	2.7	0.3	<0.05	5	<0.5	<0.2
W811040	Reverse	16	17	0.57	109	0.128	5	1.33	0.079	0.29	1.1	<0.01	3.6	0.4	0.09	6	<0.5	<0.2
W811040A	Rock Pulp	11	112	1.48	97	0.092	3	2.83	0.333	0.21	1.1	0.03	3.0	0.1	0.07	5	<0.5	<0.2
W811041	Reverse	19	19	0.51	105	0.121	4	1.24	0.080	0.34	1.1	<0.01	3.5	0.5	<0.05	5	<0.5	<0.2
W811041A	Rock DUP	17	19	0.50	111	0.110	6	1.26	0.090	0.35	1.0	<0.01	3.7	0.5	<0.05	5	<0.5	<0.2
W811042	Reverse	19	19	0.60	181	0.156	3	1.36	0.117	0.45	1.2	<0.01	4.9	0.5	<0.05	5	<0.5	<0.2
W811043	Reverse	20	19	0.63	181	0.153	2	1.35	0.117	0.49	1.1	<0.01	4.2	0.5	<0.05	5	<0.5	<0.2
W811044	Reverse	16	19	0.58	68	0.091	4	1.34	0.072	0.25	0.9	<0.01	3.7	0.3	0.07	6	<0.5	<0.2
W811045	Reverse	14	18	0.57	73	0.112	5	1.32	0.073	0.21	1.0	<0.01	3.5	0.2	<0.05	5	<0.5	<0.2
W811046	Reverse	17	16	0.53	64	0.055	5	1.34	0.057	0.20	0.7	<0.01	3.1	0.2	<0.05	5	<0.5	<0.2
W811047	Reverse	18	19	0.48	87	0.076	6	1.23	0.075	0.25	0.8	<0.01	3.6	0.3	0.05	5	<0.5	<0.2
W811048	Reverse	25	15	0.46	95	0.014	5	1.35	0.049	0.23	0.3	<0.01	3.2	0.4	<0.05	5	<0.5	<0.2
W811049	Reverse	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.
W811050	Reverse	19	15	0.49	94	0.029	5	1.39	0.050	0.21	0.4	<0.01	2.8	0.3	<0.05	6	<0.5	<0.2
W811050A	Rock Pulp	8	12	0.73	121	0.111	<1	1.52	0.173	0.22	3.1	<0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
W811051	Reverse	22	16	0.56	76	0.030	5	1.48	0.052	0.24	0.4	<0.01	3.8	0.3	0.08	7	<0.5	<0.2
W811052	Reverse	20	17	0.54	86	0.073	5	1.31	0.054	0.23	1.2	<0.01	3.5	0.3	0.12	6	<0.5	<0.2
W811053	Reverse	25	17	0.56	114	0.068	6	1.42	0.072	0.30	2.6	<0.01	4.4	0.4	0.08	6	<0.5	<0.2
W811054	Reverse	20	16	0.52	93	0.053	7	1.35	0.052	0.22	0.6	<0.01	3.2	0.3	0.10	6	<0.5	<0.2
W811055	Reverse	14	10	0.48	94	0.097	5	1.30	0.072	0.23	0.8	<0.01	3.6	0.3	0.09	6	<0.5	<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	1	0.01	0.001	
W811056	Reverse	2.59	0.7	8.6	9.0	35	<0.1	3.1	3.6	629	2.91	11.1	2.1	14.1	46	0.1	1.0	1.6	41	1.23	0.065
W811057	Reverse	2.94	0.8	5.1	7.6	33	<0.1	2.8	2.7	541	2.46	8.0	3.1	12.5	47	0.1	0.8	3.8	34	1.21	0.064
W811058	Reverse	1.98	2.5	54.6	9.3	36	0.2	5.3	9.9	708	3.28	62.9	31.0	13.5	46	0.2	0.8	1.9	34	1.69	0.062
W811059	Reverse	3.11	2.1	24.3	9.9	36	0.2	6.3	24.2	692	3.55	80.2	113.1	13.3	53	0.1	1.0	1.6	35	1.48	0.061
W811060	Reverse	3.01	1.3	10.7	10.0	36	<0.1	3.5	6.6	549	2.69	21.2	32.4	13.5	98	0.1	1.2	1.6	37	1.17	0.059
W811061	Reverse	4.76	3.0	4.2	8.5	29	<0.1	3.0	2.6	465	2.08	8.6	5.5	12.4	57	<0.1	1.3	0.3	32	0.94	0.058
W811062	Reverse	3.40	1.0	14.6	8.4	34	<0.1	3.7	3.6	581	2.65	24.6	5.3	14.5	46	0.1	1.0	0.7	37	1.01	0.057
W811063	Reverse	3.53	0.9	7.8	6.3	30	<0.1	3.9	6.8	547	2.67	12.8	3.3	14.5	57	<0.1	0.9	0.9	42	0.85	0.055
W811064	Reverse	3.48	0.6	2.4	6.0	35	<0.1	3.8	5.6	542	2.60	5.6	1.6	15.0	46	<0.1	0.7	0.7	46	0.73	0.056
W811065	Reverse	3.10	0.8	17.7	7.7	30	0.2	4.0	7.0	577	2.62	20.6	15.8	14.8	45	<0.1	0.7	2.0	35	1.33	0.057
W811068	Reverse	2.82	1.2	8.8	10.6	40	0.2	8.3	8.6	716	2.38	38.8	6.8	15.2	22	0.2	1.2	2.0	28	0.57	0.067
W811069	Reverse	1.42	0.7	2.6	5.6	34	<0.1	4.9	6.9	633	2.24	10.1	2.2	16.6	49	<0.1	0.6	0.7	27	1.59	0.073
W811070	Reverse	2.62	0.8	8.7	9.2	40	0.1	4.8	10.7	759	2.73	20.6	21.4	14.0	57	<0.1	0.7	1.4	34	1.86	0.075
W811070A	Rock Pulp	0.05	3.0	176.2	10.7	48	0.2	150.4	15.5	473	2.60	4.0	734.4	3.8	76	<0.1	0.5	0.1	69	2.12	0.037
W811071	Reverse	2.78	0.9	3.4	11.8	40	<0.1	4.4	6.6	628	2.30	12.1	8.0	13.0	78	<0.1	0.8	0.5	32	1.37	0.074
W811071A	Rock DUP		1.0	3.4	11.8	40	<0.1	4.1	6.7	604	2.30	12.1	5.3	14.1	83	<0.1	0.9	0.5	32	1.38	0.076
W811072	Reverse	1.23	1.2	1.7	11.5	41	<0.1	4.1	6.0	555	2.26	6.4	3.4	12.9	44	0.2	1.2	0.2	34	1.02	0.080
W811073	Reverse	2.52	0.9	1.7	10.7	40	<0.1	3.9	4.8	574	2.30	8.2	5.6	14.3	42	<0.1	1.0	0.2	32	1.17	0.071
W811074	Reverse	2.39	0.7	1.5	10.1	40	<0.1	3.8	5.0	529	2.50	8.3	3.4	14.2	61	0.1	1.0	0.1	36	0.93	0.071
W811075	Reverse	2.93	0.9	27.4	18.4	49	0.3	9.1	19.2	1064	5.02	58.5	39.2	12.9	57	<0.1	0.6	2.0	53	2.38	0.067
W811076	Reverse	2.55	0.8	3.4	7.3	41	<0.1	3.2	4.5	639	2.64	9.4	2.6	13.2	48	<0.1	0.4	0.3	32	1.48	0.068
W811077	Reverse	2.20	0.8	5.2	8.7	38	<0.1	4.7	6.4	651	2.68	14.4	22.0	10.8	50	<0.1	0.6	0.5	37	1.50	0.064
W811078	Reverse	2.07	1.6	4.4	8.7	39	<0.1	5.5	8.2	601	2.90	17.2	25.3	9.7	50	<0.1	0.8	0.3	41	1.09	0.070
W811079	Reverse	2.37	1.3	2.1	7.3	38	<0.1	4.6	3.9	534	2.68	8.0	6.2	16.5	49	<0.1	0.7	0.1	42	0.88	0.072
W811080	Reverse	2.12	1.2	3.3	7.7	38	<0.1	4.5	6.4	582	2.46	8.4	4.3	10.1	50	<0.1	0.8	0.5	35	1.45	0.070
W811080A	Rock Pulp	0.05	2.4	97.7	3.6	37	0.1	4.7	9.6	378	2.76	0.8	3.9	2.7	68	<0.1	<0.1	<0.1	95	0.87	0.062
W811081	Reverse	2.92	1.3	2.1	7.8	37	<0.1	4.1	6.1	516	2.38	7.9	5.5	11.8	50	0.1	0.8	0.2	36	1.01	0.076
W811082	Reverse	2.48	1.3	2.5	5.9	39	<0.1	4.1	5.7	520	2.67	8.5	17.2	21.1	45	<0.1	0.6	0.2	44	0.85	0.068
W811083	Reverse	2.36	1.6	2.9	6.5	31	<0.1	3.6	6.2	486	2.33	9.0	8.7	19.5	37	<0.1	0.5	0.4	32	1.02	0.060
W811084	Reverse	3.29	1.3	1.7	6.0	30	<0.1	4.0	4.4	445	2.32	5.6	1.4	14.6	41	<0.1	0.5	0.1	38	0.98	0.063



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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		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
W811056	Reverse	14	10	0.50	63	0.088	5	1.37	0.057	0.18	0.7	<0.01	3.3	0.2	0.09	6	<0.5	<0.2
W811057	Reverse	11	8	0.46	65	0.062	4	1.20	0.059	0.18	0.8	<0.01	2.5	0.2	0.07	5	<0.5	<0.2
W811058	Reverse	13	7	0.46	60	0.054	5	1.26	0.047	0.18	1.2	<0.01	3.0	0.2	0.65	6	<0.5	<0.2
W811059	Reverse	12	7	0.48	70	0.055	5	1.40	0.070	0.22	1.3	<0.01	3.0	0.3	0.86	6	<0.5	<0.2
W811060	Reverse	12	10	0.47	80	0.084	3	1.27	0.076	0.17	1.0	<0.01	2.7	0.2	0.19	5	<0.5	<0.2
W811061	Reverse	11	10	0.42	71	0.088	3	1.24	0.098	0.19	2.9	<0.01	2.3	0.3	0.06	5	<0.5	<0.2
W811062	Reverse	14	10	0.53	115	0.103	3	1.23	0.077	0.24	1.3	<0.01	3.0	0.3	0.11	5	<0.5	<0.2
W811063	Reverse	17	10	0.57	141	0.121	3	1.22	0.093	0.28	1.2	<0.01	3.3	0.3	0.13	4	<0.5	<0.2
W811064	Reverse	22	9	0.61	241	0.149	1	1.15	0.093	0.39	0.9	<0.01	3.4	0.4	<0.05	5	<0.5	<0.2
W811065	Reverse	15	8	0.53	69	0.059	3	1.22	0.048	0.20	0.8	<0.01	3.1	0.3	0.25	5	<0.5	<0.2
W811068	Reverse	20	11	0.39	138	0.011	7	1.28	0.026	0.24	0.7	<0.01	2.7	0.3	<0.05	4	<0.5	<0.2
W811069	Reverse	19	9	0.44	103	0.013	6	1.25	0.040	0.24	0.4	<0.01	2.7	0.3	<0.05	5	<0.5	<0.2
W811070	Reverse	17	9	0.52	91	0.032	6	1.35	0.042	0.23	0.6	<0.01	3.2	0.3	0.06	5	<0.5	<0.2
W811070A	Rock Pulp	11	112	1.45	95	0.082	2	2.77	0.323	0.20	1.3	0.04	3.1	0.1	0.07	5	<0.5	<0.2
W811071	Reverse	13	11	0.47	130	0.055	4	1.20	0.044	0.18	0.8	<0.01	2.6	0.2	<0.05	5	<0.5	<0.2
W811071A	Rock DUP	14	11	0.47	129	0.058	4	1.23	0.046	0.18	0.8	<0.01	2.5	0.2	<0.05	5	<0.5	<0.2
W811072	Reverse	12	12	0.48	77	0.078	3	1.20	0.047	0.14	0.8	<0.01	2.3	0.2	<0.05	5	<0.5	<0.2
W811073	Reverse	14	10	0.47	72	0.075	4	1.21	0.051	0.18	0.8	<0.01	2.5	0.2	<0.05	5	<0.5	<0.2
W811074	Reverse	14	10	0.52	80	0.087	4	1.19	0.052	0.14	1.3	<0.01	2.3	0.2	<0.05	5	<0.5	<0.2
W811075	Reverse	21	9	0.66	54	0.020	5	1.86	0.041	0.28	0.7	<0.01	5.3	0.4	0.18	8	<0.5	<0.2
W811076	Reverse	16	10	0.46	58	0.021	4	1.26	0.049	0.20	0.3	<0.01	2.8	0.3	<0.05	5	<0.5	<0.2
W811077	Reverse	13	10	0.49	56	0.054	4	1.25	0.047	0.19	0.8	<0.01	3.0	0.2	0.05	5	<0.5	<0.2
W811078	Reverse	13	14	0.56	66	0.094	2	1.28	0.057	0.17	1.5	<0.01	3.2	0.2	0.12	5	<0.5	<0.2
W811079	Reverse	16	13	0.60	95	0.106	2	1.22	0.060	0.19	1.0	<0.01	2.7	0.2	<0.05	5	<0.5	<0.2
W811080	Reverse	14	11	0.49	81	0.061	7	1.34	0.077	0.27	0.6	<0.01	2.9	0.3	<0.05	5	<0.5	<0.2
W811080A	Rock Pulp	7	11	0.75	122	0.098	<1	1.56	0.165	0.21	3.0	<0.01	2.6	<0.1	<0.05	4	<0.5	<0.2
W811081	Reverse	14	13	0.49	59	0.081	4	1.13	0.055	0.15	0.9	<0.01	2.4	0.2	<0.05	5	<0.5	<0.2
W811082	Reverse	21	13	0.59	123	0.114	3	1.19	0.061	0.23	0.9	<0.01	3.4	0.3	<0.05	5	<0.5	<0.2
W811083	Reverse	13	12	0.44	62	0.060	3	1.03	0.050	0.18	0.8	<0.01	2.3	0.2	<0.05	4	<0.5	<0.2
W811084	Reverse	12	13	0.50	70	0.081	3	1.12	0.055	0.16	1.0	<0.01	2.7	0.2	<0.05	5	<0.5	<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

Project: Rude Creek
Report Date: September 17, 2018

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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	MDL	kg	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	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	1	0.01	0.001
W811085	Reverse	2.37	1.0	1.4	5.2	30	<0.1	3.5	4.6	573	2.08	5.3	1.8	15.0	46	<0.1	0.5	0.3	25	1.75	0.068
W811086	Reverse	2.94	1.2	2.7	5.2	31	<0.1	3.9	5.1	641	2.24	8.8	33.2	16.2	42	<0.1	0.4	0.7	25	1.92	0.069
W811087	Reverse	2.34	1.2	1.8	5.8	35	<0.1	3.7	5.0	574	2.47	7.3	2.1	17.4	63	<0.1	0.6	0.4	38	1.53	0.063
W811088	Reverse	2.38	1.3	3.2	6.9	28	<0.1	3.7	4.7	597	2.15	9.1	2.2	16.8	51	<0.1	0.6	0.7	30	1.83	0.070
W811089	Reverse	2.45	1.3	2.2	5.2	39	<0.1	3.8	5.4	626	2.39	6.1	<0.5	15.7	40	<0.1	0.4	0.3	37	1.47	0.076
W811090	Reverse	2.63	2.3	5.1	6.4	42	<0.1	5.1	7.1	616	2.55	8.2	2.3	15.8	59	<0.1	0.7	0.4	43	1.21	0.067
W811091	Reverse	2.53	1.1	2.9	6.7	33	<0.1	3.9	6.0	584	2.35	7.5	5.8	15.6	44	<0.1	0.6	0.3	35	1.22	0.068
W811092	Reverse	2.64	0.5	1.9	5.4	33	<0.1	3.6	8.3	526	2.54	8.4	14.1	13.6	33	<0.1	0.5	0.2	43	0.80	0.059
W811093	Reverse	3.17	0.5	4.3	7.0	30	<0.1	4.2	11.3	485	2.48	16.7	44.6	14.9	61	<0.1	0.5	0.6	37	1.08	0.049
W811094	Reverse	2.72	0.5	2.1	5.9	32	<0.1	3.4	7.5	595	2.39	8.8	5.7	12.4	73	<0.1	0.4	0.4	34	1.64	0.070
W811095	Reverse	2.86	0.6	3.5	7.4	35	<0.1	3.9	7.7	577	2.72	12.1	16.2	13.8	43	<0.1	0.5	0.5	41	1.13	0.062
W811096	Reverse	2.85	0.5	1.9	7.6	31	<0.1	3.3	4.6	489	2.22	7.6	0.9	25.7	36	<0.1	0.8	0.2	34	0.95	0.054
W811097	Reverse	3.55	0.6	1.6	5.5	39	<0.1	3.4	5.8	591	2.59	6.2	2.1	14.6	42	<0.1	0.4	0.2	45	0.92	0.057
W811098	Reverse	3.00	0.5	1.8	5.3	33	<0.1	3.6	4.8	491	2.49	6.1	<0.5	13.0	37	<0.1	0.5	0.1	45	0.83	0.059
W811099	Reverse	2.96	0.5	6.1	7.5	31	<0.1	3.8	6.2	531	2.43	13.5	<0.5	14.9	39	<0.1	0.5	0.3	36	1.29	0.054
W811100	Reverse	3.44	4.2	3.4	5.5	32	<0.1	3.5	6.7	513	2.65	9.8	3.4	14.2	39	<0.1	0.5	0.2	41	1.06	0.056
W811100A	Rock Pulp	0.05	3.1	171.3	10.6	46	0.2	142.2	14.9	464	2.57	4.0	665.7	3.6	70	<0.1	0.5	0.1	67	1.88	0.036
W811101	Reverse	3.17	2.9	2.4	5.8	33	<0.1	3.3	5.7	582	2.47	6.3	2.4	13.6	37	<0.1	0.5	0.3	33	1.35	0.056
W811101A	Rock DUP		3.0	2.7	5.9	34	<0.1	3.7	6.5	593	2.51	7.4	3.5	14.3	38	<0.1	0.5	0.4	33	1.36	0.062
W811102	Reverse	2.63	0.8	2.7	6.1	32	<0.1	3.2	6.2	566	2.30	6.9	0.5	19.1	44	<0.1	0.5	0.3	31	1.50	0.059
W811103	Reverse	2.92	0.6	6.2	6.2	30	<0.1	3.8	6.6	559	2.42	9.7	<0.5	20.8	38	<0.1	0.5	0.3	30	1.46	0.055
W811104	Reverse	3.45	0.6	2.5	6.6	28	<0.1	3.4	5.1	418	2.14	6.8	<0.5	16.2	43	<0.1	0.6	0.1	32	0.84	0.047
W811105	Reverse	3.44	0.5	5.3	7.0	28	<0.1	3.4	6.2	446	2.23	9.3	<0.5	15.1	45	<0.1	0.5	0.2	34	0.82	0.046
W811106	Reverse	4.24	0.6	4.2	6.8	31	<0.1	3.1	4.3	464	2.34	8.0	<0.5	15.9	47	<0.1	0.6	0.2	37	0.78	0.048
W811107	Reverse	4.24	0.6	5.7	6.9	32	<0.1	3.5	4.6	485	2.39	8.7	<0.5	15.3	36	<0.1	0.6	0.2	39	0.79	0.047
W811108	Reverse	3.51	2.6	22.5	10.0	26	<0.1	2.6	7.7	468	2.36	27.1	28.4	15.4	29	0.1	1.0	0.6	23	1.03	0.035
W811109	Reverse	3.52	2.5	56.2	26.5	54	0.3	2.0	16.3	342	2.30	407.4	80.5	16.5	16	1.0	3.0	1.0	16	0.65	0.024
W811110	Reverse	3.33	1.9	47.1	14.3	24	0.2	2.6	9.6	287	1.99	256.6	51.5	16.2	14	0.4	2.0	0.7	11	0.68	0.013
W811110A	Rock Pulp	0.05	2.3	95.0	3.3	37	0.1	4.4	8.6	358	2.56	0.9	1.4	2.5	60	<0.1	<0.1	<0.1	88	0.74	0.059
W811111	Reverse	2.85	0.6	9.3	7.0	29	<0.1	3.0	5.3	457	2.27	31.0	2.7	17.9	31	<0.1	0.6	0.2	33	0.84	0.040



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	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	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	0.01	0.1	0.01	0.05	1	0.5	0.2	
W811085	Reverse	17	10	0.45	53	0.021	3	1.23	0.038	0.18	0.6	<0.01	2.1	0.3	<0.05	5	<0.5	<0.2
W811086	Reverse	25	11	0.44	58	0.005	4	1.23	0.036	0.21	0.6	<0.01	2.3	0.3	<0.05	4	<0.5	<0.2
W811087	Reverse	26	11	0.53	165	0.035	3	1.24	0.040	0.30	0.5	<0.01	3.5	0.4	<0.05	4	<0.5	<0.2
W811088	Reverse	26	12	0.45	69	0.004	3	1.26	0.034	0.19	0.5	<0.01	2.6	0.3	<0.05	4	<0.5	<0.2
W811089	Reverse	25	12	0.55	179	0.052	3	1.11	0.044	0.34	0.4	<0.01	3.4	0.4	<0.05	5	<0.5	<0.2
W811090	Reverse	24	18	0.57	252	0.103	2	1.12	0.066	0.40	1.4	<0.01	3.7	0.4	<0.05	5	<0.5	<0.2
W811091	Reverse	16	11	0.54	55	0.038	4	1.15	0.040	0.18	0.6	<0.01	2.7	0.3	<0.05	5	<0.5	<0.2
W811092	Reverse	16	8	0.60	94	0.083	3	1.08	0.046	0.19	0.5	<0.01	2.8	0.2	0.07	4	<0.5	<0.2
W811093	Reverse	15	7	0.47	127	0.063	3	1.06	0.055	0.27	16.1	<0.01	3.1	0.3	0.15	4	<0.5	<0.2
W811094	Reverse	21	8	0.50	74	0.021	4	1.24	0.042	0.22	1.1	<0.01	3.1	0.3	0.07	5	<0.5	<0.2
W811095	Reverse	21	9	0.56	132	0.068	4	1.21	0.051	0.29	0.8	<0.01	3.5	0.4	0.10	5	<0.5	<0.2
W811096	Reverse	14	7	0.49	58	0.063	3	1.05	0.049	0.17	0.6	<0.01	2.3	0.2	0.07	4	<0.5	<0.2
W811097	Reverse	21	8	0.63	214	0.105	3	1.16	0.063	0.40	0.4	<0.01	3.8	0.5	<0.05	5	<0.5	<0.2
W811098	Reverse	15	8	0.57	169	0.114	3	1.11	0.065	0.33	0.5	<0.01	3.2	0.4	<0.05	5	<0.5	<0.2
W811099	Reverse	15	8	0.48	79	0.059	4	1.16	0.057	0.23	0.4	<0.01	2.8	0.3	0.13	5	<0.5	<0.2
W811100	Reverse	17	9	0.56	99	0.087	5	1.21	0.072	0.27	0.5	<0.01	3.2	0.3	0.11	5	<0.5	<0.2
W811100A	Rock Pulp	10	106	1.44	89	0.072	3	2.65	0.307	0.20	1.0	0.03	2.9	0.1	0.07	5	<0.5	<0.2
W811101	Reverse	16	8	0.53	72	0.049	4	1.21	0.061	0.24	0.4	<0.01	2.7	0.3	0.07	5	<0.5	<0.2
W811101A	Rock DUP	17	9	0.53	74	0.056	5	1.24	0.064	0.25	0.4	<0.01	2.9	0.3	0.08	5	<0.5	<0.2
W811102	Reverse	18	7	0.49	57	0.025	5	1.15	0.049	0.22	0.3	<0.01	2.5	0.3	0.09	5	<0.5	<0.2
W811103	Reverse	14	7	0.51	50	0.039	5	1.17	0.049	0.21	0.4	<0.01	2.5	0.3	0.12	5	<0.5	<0.2
W811104	Reverse	13	7	0.44	91	0.080	4	1.01	0.073	0.22	0.6	<0.01	2.4	0.2	0.06	4	<0.5	<0.2
W811105	Reverse	13	7	0.45	82	0.080	5	1.04	0.070	0.21	0.5	<0.01	2.5	0.2	0.10	4	<0.5	<0.2
W811106	Reverse	16	8	0.47	120	0.098	4	1.05	0.075	0.26	0.5	<0.01	2.7	0.3	0.08	4	<0.5	<0.2
W811107	Reverse	16	8	0.49	182	0.111	3	1.05	0.079	0.33	0.6	<0.01	3.0	0.3	0.09	4	<0.5	<0.2
W811108	Reverse	11	6	0.33	74	0.038	4	0.94	0.064	0.23	54.0	<0.01	2.0	0.2	0.24	4	<0.5	<0.2
W811109	Reverse	9	5	0.22	45	0.015	4	0.75	0.048	0.20	12.7	<0.01	1.8	0.2	0.42	3	<0.5	<0.2
W811110	Reverse	6	4	0.15	36	0.011	3	0.57	0.059	0.19	7.0	<0.01	1.2	0.1	0.55	2	<0.5	<0.2
W811110A	Rock Pulp	7	10	0.70	115	0.082	<1	1.34	0.143	0.21	2.6	<0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
W811111	Reverse	14	7	0.43	129	0.077	2	0.94	0.072	0.34	3.1	<0.01	2.7	0.4	0.13	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
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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	1	0.01	0.001	
W811112	Reverse	2.93	0.9	9.9	8.1	33	<0.1	3.4	5.9	507	2.44	22.9	3.4	17.0	39	<0.1	0.6	0.3	34	1.12	0.052
W811113	Reverse	2.97	1.1	6.1	6.3	32	<0.1	3.3	5.4	512	2.41	12.5	<0.5	14.5	33	<0.1	0.5	0.2	38	0.87	0.053
W811114	Reverse	2.59	0.7	3.9	5.8	36	<0.1	3.6	4.8	513	2.45	7.1	<0.5	15.3	37	<0.1	0.4	0.1	42	0.67	0.052
W811115	Reverse	3.13	0.5	1.9	5.0	35	<0.1	3.4	5.6	544	2.37	5.8	<0.5	15.7	37	<0.1	0.5	<0.1	45	0.64	0.052
W811116	Reverse	2.41	0.5	2.0	5.5	36	<0.1	3.6	5.5	576	2.51	5.2	1.0	15.7	68	<0.1	0.5	<0.1	46	0.90	0.053
W811117	Reverse	3.71	1.0	8.3	8.4	33	<0.1	3.7	10.3	550	2.47	26.0	7.5	13.5	73	0.1	0.7	0.3	39	1.30	0.052
W811118	Reverse	3.93	0.7	8.0	9.6	31	<0.1	3.8	7.9	618	2.31	18.5	7.7	11.7	52	0.1	0.7	0.6	31	1.63	0.054
W811119	Reverse	3.85	0.6	2.7	5.7	32	<0.1	2.9	3.1	528	1.96	5.3	0.7	13.9	51	<0.1	0.6	0.2	28	1.43	0.058
W811120	Reverse	3.24	0.7	3.4	8.2	35	<0.1	3.5	4.8	520	2.15	6.9	2.7	14.3	55	<0.1	0.9	0.2	36	1.08	0.053
W811121	Reverse	3.20	0.7	2.5	5.8	36	<0.1	3.4	4.1	531	2.26	6.4	<0.5	14.2	40	<0.1	0.8	0.3	37	0.82	0.052
W811122	Reverse	3.43	0.9	2.1	5.7	37	<0.1	3.4	4.5	515	2.25	6.3	<0.5	13.3	39	<0.1	0.8	<0.1	39	0.68	0.045
W811123	Reverse	2.92	10.5	1.6	5.4	39	<0.1	3.5	4.5	523	2.24	5.1	<0.5	16.7	39	<0.1	0.5	<0.1	42	0.58	0.051
W811124	Reverse	3.89	5.7	1.6	5.5	39	<0.1	3.5	4.8	567	2.31	5.6	<0.5	13.4	44	<0.1	0.6	<0.1	43	0.66	0.050
W811125	Reverse	3.20	1.7	5.0	8.8	33	<0.1	2.4	3.5	449	1.78	10.0	2.6	13.9	41	<0.1	0.9	1.4	28	0.71	0.045
W811126	Reverse	2.35	1.9	6.5	9.0	39	<0.1	3.0	2.9	541	2.17	9.7	1.6	14.7	42	0.2	1.1	0.4	32	0.91	0.047
W811127	Reverse	4.09	0.9	2.3	5.6	34	<0.1	3.3	5.0	514	2.17	6.9	<0.5	15.5	40	<0.1	0.6	0.1	39	0.58	0.046
W811128	Reverse	4.01	0.8	2.7	6.0	39	<0.1	3.6	4.8	570	2.26	6.4	<0.5	18.9	47	<0.1	0.5	0.2	42	0.64	0.046
W811129	Reverse	2.79	0.8	3.1	5.6	43	<0.1	3.7	5.8	572	2.30	6.8	<0.5	16.9	41	<0.1	0.5	0.1	44	0.57	0.051
W811130	Reverse	3.40	0.9	5.0	6.5	53	<0.1	3.3	4.6	626	2.33	7.8	0.5	13.8	50	0.2	0.6	0.1	43	0.75	0.053
W811131	Reverse	3.81	0.9	3.1	5.4	51	<0.1	3.9	5.3	579	2.33	8.0	5.9	14.4	41	0.1	0.5	0.1	43	0.62	0.051
W811132	Reverse	3.87	0.9	2.7	5.0	45	<0.1	3.6	6.5	562	2.34	9.0	5.7	19.2	43	0.1	0.5	0.1	45	0.64	0.053



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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: September 17, 2018

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CERTIFICATE OF ANALYSIS

WHI18000677.1

Method Analyte Unit MDL	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	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2			
W811112	Reverse	15	8	0.45	111	0.059	4	1.05	0.068	0.29	1.1	<0.01	2.6	0.3	0.17	5	<0.5	<0.2		
W811113	Reverse	16	8	0.51	152	0.091	3	1.07	0.076	0.31	0.9	<0.01	2.8	0.3	0.10	5	<0.5	<0.2		
W811114	Reverse	23	9	0.53	261	0.121	2	1.05	0.111	0.45	0.6	<0.01	3.0	0.5	<0.05	4	<0.5	<0.2		
W811115	Reverse	20	8	0.55	270	0.143	2	1.03	0.111	0.50	0.8	<0.01	3.5	0.5	<0.05	4	<0.5	<0.2		
W811116	Reverse	25	8	0.58	256	0.139	4	1.17	0.117	0.44	0.6	<0.01	4.0	0.4	<0.05	4	<0.5	<0.2		
W811117	Reverse	17	8	0.49	123	0.090	4	1.13	0.076	0.27	0.9	<0.01	3.3	0.3	0.22	4	<0.5	<0.2		
W811118	Reverse	14	7	0.46	88	0.056	6	1.21	0.073	0.29	0.7	<0.01	2.8	0.3	0.20	5	<0.5	<0.2		
W811119	Reverse	13	7	0.44	79	0.043	5	1.09	0.057	0.24	0.6	<0.01	2.3	0.2	<0.05	4	<0.5	<0.2		
W811120	Reverse	15	8	0.48	135	0.099	5	1.15	0.087	0.28	0.6	<0.01	3.0	0.3	<0.05	4	<0.5	<0.2		
W811121	Reverse	20	8	0.53	202	0.118	3	1.05	0.084	0.36	0.8	<0.01	2.8	0.4	<0.05	4	<0.5	<0.2		
W811122	Reverse	16	9	0.51	232	0.126	3	1.06	0.119	0.47	0.8	<0.01	3.0	0.4	<0.05	4	<0.5	<0.2		
W811123	Reverse	25	9	0.54	303	0.146	1	1.06	0.133	0.54	0.8	<0.01	2.9	0.5	<0.05	4	<0.5	<0.2		
W811124	Reverse	21	9	0.55	310	0.153	2	1.12	0.152	0.54	0.7	<0.01	3.3	0.6	<0.05	4	<0.5	<0.2		
W811125	Reverse	14	7	0.38	113	0.085	2	0.89	0.077	0.25	0.9	<0.01	2.1	0.2	0.06	3	<0.5	<0.2		
W811126	Reverse	11	8	0.47	91	0.099	3	1.14	0.081	0.26	1.1	<0.01	2.4	0.3	0.06	4	<0.5	<0.2		
W811127	Reverse	16	9	0.49	272	0.144	2	1.03	0.132	0.50	0.8	<0.01	3.1	0.4	<0.05	4	<0.5	<0.2		
W811128	Reverse	24	9	0.52	312	0.150	2	1.12	0.146	0.54	0.8	<0.01	3.4	0.5	<0.05	4	<0.5	<0.2		
W811129	Reverse	27	10	0.54	350	0.160	1	1.08	0.141	0.57	0.9	<0.01	3.3	0.5	<0.05	4	<0.5	<0.2		
W811130	Reverse	19	9	0.55	323	0.160	2	1.24	0.157	0.59	1.0	<0.01	3.5	0.5	<0.05	4	<0.5	<0.2		
W811131	Reverse	22	10	0.54	314	0.158	2	1.09	0.136	0.57	1.0	<0.01	3.5	0.5	<0.05	4	<0.5	<0.2		
W811132	Reverse	31	10	0.56	335	0.157	1	1.16	0.153	0.60	0.8	<0.01	3.8	0.5	0.06	4	<0.5	<0.2		



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QUALITY CONTROL REPORT

WHI18000677.1

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	1	0.01	0.001	
Pulp Duplicates																					
W811009	Reverse Circ	2.14	1.1	5.9	31.6	57	0.2	2.1	2.3	745	2.05	114.7	2.9	18.2	50	0.8	0.7	0.3	18	1.86	0.076
REP W811009	QC		1.2	5.7	32.1	55	0.2	2.1	2.3	764	2.04	112.4	3.1	17.8	48	0.8	0.7	0.3	18	1.81	0.083
REP W811035	QC		2.0	2.1	6.0	41	<0.1	4.1	7.1	602	2.83	7.2	<0.5	16.3	45	<0.1	0.8	0.2	53	0.65	0.060
W811065	Reverse Circ	3.10	0.8	17.7	7.7	30	0.2	4.0	7.0	577	2.62	20.6	15.8	14.8	45	<0.1	0.7	2.0	35	1.33	0.057
REP W811065	QC		0.8	17.9	7.6	30	0.2	4.0	6.7	598	2.60	20.8	13.9	14.3	44	<0.1	0.7	1.9	34	1.34	0.060
W811095	Reverse Circ	2.86	0.6	3.5	7.4	35	<0.1	3.9	7.7	577	2.72	12.1	16.2	13.8	43	<0.1	0.5	0.5	41	1.13	0.062
REP W811095	QC		0.5	3.7	7.4	38	<0.1	3.8	7.8	573	2.72	12.4	4.4	13.8	44	<0.1	0.5	0.5	41	1.12	0.065
W811123	Reverse Circ	2.92	10.5	1.6	5.4	39	<0.1	3.5	4.5	523	2.24	5.1	<0.5	16.7	39	<0.1	0.5	<0.1	42	0.58	0.051
REP W811123	QC		10.1	1.6	5.4	38	<0.1	3.4	4.6	509	2.24	5.4	<0.5	15.6	37	<0.1	0.5	<0.1	42	0.57	0.051
Core Reject Duplicates																					
W811004	Reverse Circ	2.60	1.0	9.2	7.7	43	0.2	5.1	3.8	652	3.26	31.5	7.2	15.0	36	0.2	0.9	1.3	25	1.41	0.082
DUP W811004	QC		1.0	9.0	7.8	45	0.3	5.1	3.8	677	3.26	30.6	4.6	16.3	35	0.1	0.8	1.6	26	1.39	0.088
W811035	Reverse Circ	3.22	2.0	2.0	6.1	39	<0.1	4.4	6.9	583	2.80	6.9	<0.5	16.1	46	<0.1	0.9	0.2	52	0.67	0.056
DUP W811035	QC		1.7	2.4	6.5	40	<0.1	4.4	8.0	588	2.81	7.4	<0.5	18.0	46	<0.1	0.8	0.2	53	0.67	0.059
W811068	Reverse Circ	2.82	1.2	8.8	10.6	40	0.2	8.3	8.6	716	2.38	38.8	6.8	15.2	22	0.2	1.2	2.0	28	0.57	0.067
DUP W811068	QC		1.3	9.7	10.8	42	0.2	8.3	8.4	716	2.42	39.8	6.7	15.4	24	0.3	1.2	2.1	28	0.58	0.072
W811099	Reverse Circ	2.96	0.5	6.1	7.5	31	<0.1	3.8	6.2	531	2.43	13.5	<0.5	14.9	39	<0.1	0.5	0.3	36	1.29	0.054
DUP W811099	QC		0.7	6.7	7.6	32	<0.1	3.5	6.1	529	2.48	14.0	<0.5	17.0	40	<0.1	0.6	0.3	36	1.33	0.058
W811130	Reverse Circ	3.40	0.9	5.0	6.5	53	<0.1	3.3	4.6	626	2.33	7.8	0.5	13.8	50	0.2	0.6	0.1	43	0.75	0.053
DUP W811130	QC		0.9	4.9	6.6	56	<0.1	3.8	5.1	613	2.37	8.2	2.1	14.1	47	0.2	0.6	0.2	44	0.73	0.052
Reference Materials																					
STD DS11	Standard		14.5	159.7	143.8	341	1.7	82.5	14.0	1060	3.22	44.2	73.2	7.9	68	2.5	7.7	12.1	50	1.09	0.073
STD DS11	Standard		14.4	160.8	141.2	344	1.7	83.2	13.2	1042	3.21	43.7	84.3	7.7	66	2.3	7.6	12.3	51	1.07	0.068
STD DS11	Standard		15.2	159.4	137.6	359	1.6	79.4	13.5	1046	3.20	43.4	69.4	8.1	68	2.6	7.7	12.1	52	1.07	0.068
STD DS11	Standard		15.5	153.4	149.4	357	1.8	81.1	15.4	1044	3.18	47.2	81.7	8.7	67	2.4	9.0	12.7	53	1.08	0.073
STD DS11	Standard		14.0	164.6	141.7	354	1.6	79.3	15.7	992	3.21	49.3	77.4	9.0	62	2.2	9.0	12.9	52	1.07	0.069
STD OXC129	Standard		1.3	28.4	6.1	43	<0.1	82.0	21.9	422	3.12	0.6	189.6	1.8	180	<0.1	<0.1	<0.1	52	0.69	0.094
STD OXC129	Standard		1.3	28.8	6.1	46	<0.1	85.4	22.2	416	3.11	0.5	188.7	1.8	175	<0.1	<0.1	<0.1	52	0.59	0.094



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

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Vancouver British Columbia V7Y 1C3 Canada

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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																		
W811009	Reverse Circ	24	8	0.22	244	0.002	7	1.16	0.021	0.28	0.8	<0.01	1.9	0.4	<0.05	3	<0.5	<0.2
REP W811009	QC	25	7	0.22	250	0.002	7	1.15	0.021	0.28	0.8	<0.01	1.9	0.4	<0.05	3	<0.5	<0.2
REP W811035	QC	23	17	0.64	356	0.172	2	1.29	0.154	0.67	1.0	<0.01	3.9	0.7	<0.05	4	<0.5	<0.2
W811065	Reverse Circ	15	8	0.53	69	0.059	3	1.22	0.048	0.20	0.8	<0.01	3.1	0.3	0.25	5	<0.5	<0.2
REP W811065	QC	15	8	0.53	67	0.059	4	1.22	0.050	0.21	0.8	<0.01	3.2	0.3	0.25	5	<0.5	<0.2
W811095	Reverse Circ	21	9	0.56	132	0.068	4	1.21	0.051	0.29	0.8	<0.01	3.5	0.4	0.10	5	<0.5	<0.2
REP W811095	QC	20	8	0.57	132	0.063	4	1.22	0.051	0.29	0.7	<0.01	3.5	0.4	0.10	5	<0.5	<0.2
W811123	Reverse Circ	25	9	0.54	303	0.146	1	1.06	0.133	0.54	0.8	<0.01	2.9	0.5	<0.05	4	<0.5	<0.2
REP W811123	QC	25	9	0.53	311	0.145	1	1.02	0.128	0.54	0.8	<0.01	2.9	0.5	<0.05	4	<0.5	<0.2
Core Reject Duplicates																		
W811004	Reverse Circ	20	9	0.34	102	0.002	4	1.51	0.018	0.25	1.1	<0.01	2.9	0.4	<0.05	4	<0.5	<0.2
DUP W811004	QC	22	9	0.34	107	0.002	5	1.58	0.019	0.27	1.1	<0.01	3.1	0.4	<0.05	4	<0.5	<0.2
W811035	Reverse Circ	23	17	0.63	322	0.171	2	1.31	0.160	0.67	0.9	<0.01	4.1	0.6	<0.05	5	<0.5	<0.2
DUP W811035	QC	25	18	0.64	340	0.188	2	1.31	0.154	0.66	1.0	<0.01	4.2	0.7	<0.05	5	<0.5	<0.2
W811068	Reverse Circ	20	11	0.39	138	0.011	7	1.28	0.026	0.24	0.7	<0.01	2.7	0.3	<0.05	4	<0.5	<0.2
DUP W811068	QC	21	11	0.40	145	0.011	6	1.28	0.026	0.25	0.6	<0.01	2.9	0.3	<0.05	4	<0.5	<0.2
W811099	Reverse Circ	15	8	0.48	79	0.059	4	1.16	0.057	0.23	0.4	<0.01	2.8	0.3	0.13	5	<0.5	<0.2
DUP W811099	QC	16	8	0.48	78	0.060	5	1.18	0.057	0.22	0.4	<0.01	2.9	0.3	0.13	5	<0.5	<0.2
W811130	Reverse Circ	19	9	0.55	323	0.160	2	1.24	0.157	0.59	1.0	<0.01	3.5	0.5	<0.05	4	<0.5	<0.2
DUP W811130	QC	20	10	0.56	331	0.163	3	1.22	0.151	0.59	1.1	<0.01	3.5	0.6	<0.05	4	<0.5	<0.2
Reference Materials																		
STD DS11	Standard	20	62	0.85	383	0.096	8	1.18	0.074	0.41	3.1	0.26	3.4	4.9	0.28	5	2.3	4.9
STD DS11	Standard	18	61	0.85	363	0.087	7	1.14	0.074	0.40	2.7	0.24	3.4	4.8	0.29	5	2.0	4.9
STD DS11	Standard	20	61	0.86	359	0.095	8	1.19	0.077	0.41	3.0	0.24	3.5	5.0	0.28	5	1.8	4.5
STD DS11	Standard	21	64	0.86	424	0.100	7	1.20	0.077	0.41	3.1	0.27	3.7	5.0	0.28	5	2.2	4.7
STD DS11	Standard	19	70	0.86	360	0.099	8	1.19	0.076	0.40	3.0	0.27	4.2	5.0	0.28	5	2.4	4.4
STD OXC129	Standard	13	53	1.55	48	0.408	<1	1.59	0.604	0.36	<0.1	<0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	13	51	1.55	47	0.393	1	1.46	0.579	0.36	<0.1	<0.01	0.9	<0.1	<0.05	5	<0.5	<0.2



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	WGHT	AQ202	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	1	0.01	0.001	
STD OXC129	Standard	1.5	29.5	6.1	43	<0.1	85.7	21.1	435	3.12	1.0	185.1	1.8	187	<0.1	<0.1	<0.1	53	0.68	0.096	
STD OXC129	Standard	1.1	28.3	6.2	43	<0.1	78.8	23.0	438	3.09	0.6	179.3	1.7	179	<0.1	<0.1	<0.1	56	0.70	0.105	
STD OXC129	Standard	1.3	29.5	6.2	43	<0.1	70.0	21.7	435	3.14	1.1	181.8	1.8	202	<0.1	<0.1	<0.1	54	0.68	0.093	
STD OXC129 Expected		1.3	28	6.2	42.9		79.5	20.3	421	3.065	0.6	195	1.9					51	0.684	0.102	
STD DS11 Expected		14.6	149	138	345	1.71	77.7	14.2	1055	3.1	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	<1	<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	<1	<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	<1	<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	<1	<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	<1	<0.01	<0.001	
Prep Wash																					
ROCK-WHI	Prep Blank	1.0	3.1	1.0	33	<0.1	1.1	4.0	551	1.76	1.0	1.1	2.0	24	<0.1	<0.1	<0.1	24	0.68	0.044	
ROCK-WHI	Prep Blank	1.3	3.1	1.1	35	<0.1	1.9	4.3	536	1.79	1.1	<0.5	2.4	27	<0.1	<0.1	<0.1	25	0.67	0.043	



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QUALITY CONTROL REPORT












WHI18000677.1












		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	Standard	13	55	1.59	47	0.421	1	1.60	0.605	0.37	<0.1	<0.01	1.1	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	12	55	1.58	54	0.386	<1	1.64	0.608	0.37	<0.1	<0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	13	55	1.58	48	0.404	2	1.61	0.605	0.37	<0.1	<0.01	1.2	<0.1	<0.05	5	<0.5	<0.2
STD OXC129 Expected		12.5	52	1.545	50	0.4	1	1.58	0.59	0.3655			1.1			5.5		
STD DS11 Expected		18.6	61.5	0.85	385	0.0976		1.1795	0.0762	0.4	2.9	0.26	3.4	4.9	0.2835	5.1	2.2	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	70	0.072	1	1.02	0.117	0.12	<0.1	<0.01	3.1	<0.1	<0.05	4	<0.5	<0.2
ROCK-WHI	Prep Blank	6	5	0.50	74	0.079	2	1.01	0.105	0.12	<0.1	<0.01	3.3	<0.1	<0.05	4	<0.5	<0.2












Appendix D: RC Geological Logs











PROJECT: RUDE CREEK					HOLE_ID: ROYRC18-07					DATE LOGGED: 2018_08_12					LOGGED BY: L. LEWIS												
HOLE_ID	FROM_FT	TO_FT	FROM_M	TO_M	PHOTO	SAMPLE_NC	LITHA	COLOR	REDOX	OXIDE_MIN	OXIDE_PCT	VEIN	VEIN_PCT	AS_PCT	AS_FORM	SULF1	SULF1_PCT	SULF1_FOR%	ALT-I	ALT-I_FORM	ALT-I_INT	COMMENTS / DESCRIPTION	SAMPLE_NC	Au (ppb)	As (ppm)	Bi (ppm)	
ROYRC18-07	0	3	0.00	0.91		W811001	Grano diorite	red brown	moderate	lim, hem	8	qtz	2											-	-	-	-
ROYRC18-07	3	8	0.91	2.44		W811002	Grano diorite	red brown	moderate	hem, lim	10	qtz-carb	3						calcite	patchy	weak	Granodiorite, patchy red and lesser orange oxide weathering, mg, subhedral crystals, quartz, feldspar, with variable hornblende, biotite +/- tourmaline. Intermittant calcite. Non-to very weakly magnetic. No visible unoxidized sulphides.	W811002	5.6	80.6	1.9	
ROYRC18-07	8	13	2.44	3.96		W811003	Grano diorite	red brown	moderate	hem	10	qtz	2									As above, with intermittant strong hematite, 1% radiating tourmaline clusters to 2mm.	W811003	90.6	69.6	6.0	
ROYRC18-07	13	18	3.96	5.49		W811004	Grano diorite	red brown	moderate	hem	15	qtz-carb	3						calcite	patchy	moderate	As above, continued patchy strong hematite, non-to weakly magnetic.	W811004	7.2	31.5	1.3	
ROYRC18-07	18	23	5.49	7.01		W811005	Grano diorite	red brown	moderate	hem	10	qtz-carb	2						calcite	patchy	moderate	Continued intermittant strong hematite, 2% tourmaline clusters. Non-magnetic.	W811005	2.3	45.4	0.5	
ROYRC18-07	23	25	7.01	7.62		W811006	Grano diorite	red brown	moderate	hem, lim	8	qtz-carb	2						calcite	patchy	moderate	Increased limonite along with hematite, 3% radiating tourmaline clusters to 5mm. Non-magnetic. Note this interval 2 ft wide, not the normal 5 ft.	W811006	12.4	134.6	0.4	
ROYRC18-07	25	30	7.62	9.14		W811007	Grano diorite	orange	moderate	lim	10	qtz-carb	2						calcite	patchy	strong	Pervasive limonite plus patchy strong calcite. 2% tourmaline. Non-magnetic.	W811007	11.0	244.5	0.3	
ROYRC18-07	30	35	9.14	10.67		W811008	Grano diorite	green-grey	weak	lim	5	carb	4		pyrite	0.1	dissem		calcite	patchy	strong	70% limonitic granodiorite, 30% light green chips that are soft, calcite-rich (+/- chlorite), often with tourmaline up to 4mm and trace of finely disseminated pyrite. Unsure if these are alteration or carbonate veins.	W811008	7.5	252.7	0.3	
ROYRC18-07	35	40	10.67	12.19		W811009	Grano diorite	red brown	weak	hem, lim	7	qtz-carb	2		pyrite	0.1	dissem		calcite	patchy	moderate	Similar to previous interval, but with increased patchy red limonite, decreased light green, soft, calcite-rich chips. Trace of finely disseminated pyrite in the carbonate-rich chips. Continued non-magnetic.	W811009	2.9	114.7	0.3	
ROYRC18-07	40	45	12.19	13.72		W811010	Grano diorite	red brown	weak	hem, lim	6	qtz-carb	2						calcite	patchy	moderate	Similar to previous interval, but lacks visible pyrite.	W811010	0.6	20.0	0.4	
ROYRC18-07	45	50	13.72	15.24		W811011	Grano diorite	red	moderate	hem, lim	10	qtz-carb	3						calcite	patchy	moderate	Increased pervasive hematite within 40% of the chips, giving a patchy, strong red hue. 1% vuggy, orange-brown to black magnetite clots to 2mm. The pervasive hematite + magnetite -> potassic alteration? 2% tourmaline clusters.	W811011	24.8	159.6	5.1	

PROJECT: RUDE CREEK					HOLE_ID: ROYRC18-07					DATE LOGGED: 2018_08_12					LOGGED BY: L. LEWIS											
HOLE_ID	FROM_FT	TO_FT	FROM_M	TO_M	PHOTO	SAMPLE_NC	LITHA	COLOR	REDOX	OXIDE_MIN	OXIDE_PCT	VEIN	VEIN_PCT	AS_PCT	AS_FORM	SULF1	SULF1_PCT	SULF1_FOR%	ALT-I	ALT-I_FORM	ALT-I_INT	COMMENTS / DESCRIPTION	SAMPLE_NC	Au (ppb)	As (ppm)	Bi (ppm)
ROYRC18-07	50	55	15.24	16.76		W811012	Grano diorite	red	moderate	hem, lim	10	qtz-carb	3						calcite	patchy	moderate	Similar to previous interval, with 1-2% vuggy, oxidized, orange-brown to black magnetite clots to 2mm. No visible unoxidized sulphides visible.	W811012	174.7	208.6	6.4
ROYRC18-07	55	60	16.76	18.29		W811013	Grano diorite	orange	moderate	lim, hem	10	qtz-carb	2						calcite	patchy	weak	Similar to above, but increased limonite, decreased hematite. Increased vuggy, oxidized orange-brown to black magnetite-oxide clots, 5%, to 5mm.	W811013	1176.1	518.3	143.1
ROYRC18-07	60	65	18.29	19.81		W811014	Grano diorite	orange	weak	lim	5	qtz-carb	2						calcite	patchy	moderate	Decreasing oxidation, now predominantly limonite. Also decreased vuggy oxidized magnetite clots, 1%. 2% tourmaline.	W811014	210.0	24.0	2.8
ROYRC18-07	65	70	19.81	21.34		W811015	Grano diorite	orange	weak	lim	4	qtz-carb	2						calcite	patchy	moderate	Decreasing oxidation, predominantly limonite with minor hematite. Very weakly magnetic in a few chips. No visible unoxidized sulphides. 1% tourmaline.	W811015	12.0	54.8	4.3
ROYRC18-07	70	75	21.34	22.86		W811016	Grano diorite	grey	weak	lim, hem	2	qtz-carb	1						calcite	patchy	moderate	Continued decreasing oxidation. Patchy weak to moderately magnetic. Increased mafic minerals below 21m, hornblende partially altered to chlorite. 1% tourmaline.	W811016	3.0	17.6	0.7
ROYRC18-07	75	80	22.86	24.38		W811017	Grano diorite	grey	weak	lim	1	qtz-carb	1						calcite	pervasive	moderate	Similar to previous interval. 2% tourmaline.	W811017	4.7	18.1	1.2
ROYRC18-07	80	85	24.38	25.91		W811018	Grano diorite	green-grey	weak	hem	0.5								chlorite	patchy	weak	Increased mafic minerals, predominantly hornblende, altering to chlorite. Minor biotite. 2% tourmaline. Non-to weakly magnetic. Patchy moderate calcite.	W811018	12.4	11.4	3.5
ROYRC18-07	85	90	25.91	27.43		W811019	Grano diorite	green-grey	weak	hem	1								chlorite	patchy	moderate	Similar to previous interval. 2% tourmaline.	W811019	4.2	8.4	2.5
ROYRC18-07	90	95	27.43	28.96		W811020	Grano diorite	green-grey	none										chlorite	patchy	moderate	Weak to no oxidation. Mafic minerals altering to chlorite and calcite (propylitic alteration?). Weakly magnetic. No visible sulphides.	W811020	1.4	3.1	0.3
ROYRC18-07	95	100	28.96	30.48		W811021	Grano diorite	red	weak	hem	2								chlorite	patchy	weak	Intermittant, strongly hematitic chips. Weakly magnetic. Chlorite and calcite alteration.	W811021	6.6	13.6	0.7
ROYRC18-07	100	105	30.48	32.00		W811022	Grano diorite	green-grey	none										chlorite	patchy	weak	Below 30.5m, generally unoxidized. Mafic minerals altering to chlorite and calcite (propylitic alteration?). Weak to moderately magnetic. No visible sulphides.	W811022	1.2	3.5	0.2











PROJECT: RUDE CREEK					HOLE_ID: ROYRC18-07					DATE LOGGED: 2018_08_12					LOGGED BY: L. LEWIS											
HOLE_ID	FROM_FT	TO_FT	FROM_M	TO_M	PHOTO	SAMPLE_NC	LITHA	COLOR	REDOX	OXIDE_MIN	OXIDE_PCT	VEIN	VEIN_PCT	AS_PCT	AS_FORM	SULF1	SULF1_PCT	SULF1_FORM	ALT-1	ALT-1_FORM	ALT-1_INT	COMMENTS / DESCRIPTION	SAMPLE_NC	Au (ppb)	As (ppm)	Bi (ppm)
ROYRC18-07	105	110	32.00	33.53		W811023	Grano diorite	green-grey	none	hem	0.5	qtz-carb	2						chlorite	patchy	weak	As above with sparse hematite along fractures and pervasive within some chips. Weakly magnetic.	W811023	1.5	7.7	0.8
ROYRC18-07	110	115	33.53	35.05		W811024	Grano diorite	green-grey	none			qtz-carb	1						calcite	patchy	weak	Below 33.5m, the rock appears fresher, less altered with better defined crystal boundaries, decreased calcite, increased magnetite through the rocks, increased biotite. Sparse tourmaline.	W811024	4.9	8.3	0.2
ROYRC18-07	115	120	35.05	36.58		W811025	Grano diorite	green-grey	none										chlorite	patchy	weak	Similar to previous interval.	W811025	<0.5	7.7	0.1
ROYRC18-07	120	125	36.58	38.10		W811026	Grano diorite	grey	none													Increased biotite to 20%, up to 1cm. Trace calcite along fractures.	W811026	<0.5	7.7	0.1
ROYRC18-07	125	130	38.10	39.62		W811027	Grano diorite	grey	none										calcite	patchy	weak	Similar to previous interval, continued pervasively magnetic.	W811027	1.0	9.5	0.3
ROYRC18-07	130	135	39.62	41.15		W811028	Grano diorite	grey	none										calcite	patchy	weak	Trace limonite + hematite along crystal boundaries.	W811028	2.8	10.1	0.2
ROYRC18-07	135	140	41.15	42.67		W811029	Grano diorite	grey	none													Sparse chlorite as disseminated clots, patchy weak calcite. Moderate, pervasively magnetic.	W811029	1.0	9.6	0.1
ROYRC18-07	140	145	42.67	44.20		W811030	Grano diorite	grey	none													As above.	W811030	0.8	10.7	0.1
ROYRC18-07	145	150	44.20	45.72		W811031	Grano diorite	grey	none													As above.	W811031	<0.5	9.1	0.2
ROYRC18-07	150	155	45.72	47.24		W811032	Grano diorite	grey	weak	hem	1	qtz	2									Within the Granodiorite are 2% small chips of possible micro-breccia material, soft, red, hematized angular micro-pieces in a granular qtz (biotite) matrix. No visible unoxidized sulphides.	W811032	12.9	35.7	35.3
ROYRC18-07	155	160	47.24	48.77		W811033	Grano diorite	grey	none										carb	patchy	weak		W811033	1.0	9.6	0.9











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HOLE_ID	FROM_FT	TO_FT	FROM_M	TO_M	PHOTO	SAMPLE_NC	LITHA	COLOR	REDOX	OXIDE_MIN	OXIDE_PCT	VEIN	VEIN_PCT	AS_PCT	AS_FORM	SULF1	SULF1_PCT	SULF1_FOR%	ALT-1	ALT-1_FORM	ALT-1_INT	COMMENTS / DESCRIPTION	SAMPLE_NC	Au (ppb)	As (ppm)	Bi (ppm)
ROYRC18-07	160	165	48.77	50.29		W811034	Grano diorite	grey	none										epidote	patchy	weak	Sporadic very weak epidote-chlorite alteration as small clots.	W811034	<0.5	7.5	0.4
ROYRC18-07	165	170	50.29	51.82		W811035	Grano diorite	grey	none										carb	patchy	weak	Continued moderate, pervasively magnetic.	W811035	<0.5	6.9	0.2
ROYRC18-07	170	175	51.82	53.34		W811036	Grano diorite	grey	none	lim	0.5								carb	patchy	weak	Trace limonite + hematite along crystal boundaries.	W811036	<0.5	6.4	0.2
ROYRC18-07	175	180	53.34	54.86		W811037	Grano diorite	grey	none														W811037	<0.5	7.3	0.3
ROYRC18-07	180	185	54.86	56.39		W811038	Grano diorite	Orange-grey	weak	lim	2				sphal	0.1	pods		carb	patchy	moderate	Intermittant weak limonite oxidation, increased carbonate. One 4mm chip observed to 4mm, red-brown, possible sphalerite (?) as 0.5mm crystals in a clot. Trace py as disseminated cubes. Reduced magnetite.	W811038	16.9	74.7	19.2
ROYRC18-07	185	190	56.39	57.91		W811039	Grano diorite	grey	none										chl	patchy	weak	Increased magnetite, decreased carbonate. Lose the oxides. Biotite-rich granodiorite with lesser hornblende altering to chlorite. No visible sulphides.	W811039	<0.5	11.2	0.4
ROYRC18-07	190	195	57.91	59.44		W811040	Grano diorite	grey	none										chl	patchy	weak	Similar to previous interval.	W811040	2.4	18.6	0.4
ROYRC18-07	195	200	59.44	60.96		W811041	Grano diorite	grey	none										chl	patchy	weak	Weak patchy chlorite and calcite, weak to moderately magnetic. No visible sulphides.	W811041	1.9	10.5	0.2
ROYRC18-07	200	205	60.96	62.48		W811042	Grano diorite	grey	none										chl	patchy	weak	Similar to previous interval.	W811042	0.6	11.3	0.2
ROYRC18-07	205	210	62.48	64.01		W811043	Grano diorite	green-grey	none										chl	patchy	weak	First appearance of tourmaline (0.5%) since ~36.6m. Radiating crystals to 2mm. Trace epidote.	W811043	1.1	8.5	0.2
ROYRC18-07	210	215	64.01	65.53		W811044	Grano diorite	green-grey	none						pyrite	0.1	dissem		chl	patchy	weak	Trace dissem anhedral to subhedral pyrite. Continued weak chlorite + calcite and trace tourmaline.	W811044	5.5	9.6	0.3











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HOLE_ID	FROM_FT	TO_FT	FROM_M	TO_M	PHOTO	SAMPLE_NC	LITHA	COLOR	REDOX	OXIDE_MIN	OXIDE_PCT	VEIN	VEIN_PCT	AS_PCT	AS_FORM	SULF1	SULF1_PCT	SULF1_FORM	ALT-1	ALT-1_FORM	ALT-1_INT	COMMENTS / DESCRIPTION	SAMPLE_NC	Au (ppb)	As (ppm)	Bi (ppm)
ROYRC18-07	215	220	65.53	67.06		W811045	Grano-diorite	green-grey	none										chl	patchy	weak	Continued weak chlorite + calcite and trace tourmaline. Moderately magnetic.	W811045	4.9	13.9	0.1
ROYRC18-07	220	225	67.06	68.58		W811046	Grano-diorite	green-grey	none										chl	patchy	weak	Similar to previous interval.	W811046	17.5	15.2	5.6
ROYRC18-07	225	230	68.58	70.10		W811047	Grano-diorite	green-grey	none										chl	patchy	weak	Similar to previous interval.	W811047	8.9	16.5	1.7
ROYRC18-07	230	235	70.10	71.63		W811048	Grano-diorite	green-grey	none										chl	patchy	weak	Similar to previous interval.	W811048	1.4	14.4	0.4
ROYRC18-07	235	240	71.63	73.15		W811049	Grano-diorite	green-grey	none	lim	0.5					pyrite	0.5	dissem	chl	patchy	weak	0.5% dissem pyrite blebs and subhedral crystals to 1mm. Trace patchy limonite. Trace tourmaline. Non-to weakly magnetic.	LNR	LNR	LNR	LNR
ROYRC18-07	240	245	73.15	74.68		W811050	Grano-diorite	green-grey	none										chl	patchy	weak		W811050	4.3	16.1	0.5
ROYRC18-07	245	250	74.68	76.20		W811051	Grano-diorite	green-grey	none	lim	0.5	qtz-carb	0.5			pyrite	0.1	dissem	chl	patchy	weak	0.5% dissem pyrite blebs and subhedral crystals to 1mm. Trace patchy limonite. Trace tourmaline. Weak to moderately magnetic. Continued weak chlorite + calcite.	W811051	8.3	12.4	1.5
ROYRC18-07	250	255	76.20	77.72		W811052	Grano-diorite	green-grey	none	lim	0.5	qtz-carb	0.5			pyrite	1	dissem	chl	patchy	weak	Similar to previous interval, increased pyrite cubes and blebs to 1% in the granitic matrix. Weak to moderately magnetic.	W811052	19.2	15.5	1.7
ROYRC18-07	255	260	77.72	79.25		W811053	Grano-diorite	green-grey	none	lim	0.5	qtz-carb	0.5			pyrite	0.5	dissem	chl	patchy	weak	0.5% vuggy orange oxide clots along fractures to 2mm. 0.5% subhedral pyrite. Weak to moderately magnetic.	W811053	9.2	14.9	2.7
ROYRC18-07	260	265	79.25	80.77		W811054	Grano-diorite	green-grey	none							pyrite	0.1	blebs	chl	patchy	weak	Lose the oxidation and the rock becomes moderate to strongly magnetic. Trace granular pyrite blebs along fractures. Continued weak chlorite and calcite alteration.	W811054	9.1	14.1	21.6
ROYRC18-07	265	270	80.77	82.30		W811055	Grano-diorite	green-grey	none							pyrite	0.1	blebs	chl	patchy	weak	Similar to previous interval.	W811055	1.8	11.4	0.5

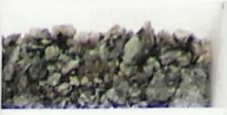









PROJECT: RUDE CREEK					HOLE_ID: ROYRC18-07					DATE LOGGED: 2018_08_12					LOGGED BY: L. LEWIS											
HOLE_ID	FROM_FT	TO_FT	FROM_M	TO_M	PHOTO	SAMPLE_NC	LITHA	COLOR	REDOX	OXIDE_MIN	OXIDE_PCT	VEIN	VEIN_PCT	AS_PCT	AS_FORM	SULF1	SULF1_PCT	SULF1_FORM	ALT-1	ALT-1_FORM	ALT-1_INT	COMMENTS / DESCRIPTION	SAMPLE_NC	Au (ppb)	As (ppm)	Bi (ppm)
ROYRC18-07	270	275	82.30	83.82		W811056	Grano-diorite	green-grey	none										chl	patchy	weak	Similar to above, but no visible pyrite.	W811056	2.1	11.1	1.6
ROYRC18-07	275	280	83.82	85.34		W811057	Grano-diorite	green-grey	none							pyrite	0.5	blebs	chl	patchy	weak	Increasing pyrite downhole, as granular blebs to 4mm. Continued weak chlorite and calcite alteration. Weakly magnetic.	W811057	3.1	8.0	3.8
ROYRC18-07	280	285	85.34	86.87		W811058	Grano-diorite	green-grey	none							pyrite	1	blebs	chl	patchy	weak	As above with pyrite increasing to 1%.	W811058	31.0	62.9	1.9
ROYRC18-07	285	290	86.87	88.39		W811059	Grano-diorite	green-grey	none							pyrite	1.5	blebs	chl	patchy	weak	Similar to above, with pyrite increasing to 1.5% as blebs between quartz-feldspar-altered hornblende-biotite crystals. Weakly magnetic.	W811059	113.1	80.2	1.6
ROYRC18-07	290	295	88.39	89.92		W811060	Grano-diorite	green-grey	none							pyrite	0.1	dissem	chl	patchy	weak	Decreasing pyrite.	W811060	32.4	21.2	1.6
ROYRC18-07	295	300	89.92	91.44		W811061	Grano-diorite	green-grey	none							pyrite	0.1	dissem	chl	patchy	weak	Moderately magnetic, trace tourmaline.	W811061	5.5	8.6	0.3
ROYRC18-07	300	305	91.44	92.96		W811062	Grano-diorite	green-grey	none										chl	patchy	weak		W811062	5.3	24.6	0.7
ROYRC18-07	305	310	92.96	94.49		W811063	Grano-diorite	green-grey	none			qtz-carb	1			pyrite	1	blebs	chl	patchy	weak	1% pyrite blebs to 5mm in a granular quartz-calcite-chlorite-rich chip - different rock type than the granodiorite (finer-grained, granular, dyke?). Makes up ~5% of interval.	W811063	3.3	12.8	0.9
ROYRC18-07	310	315	94.49	96.01		W811064	Grano-diorite	green-grey	none							pyrite	0.1	dissem				Trace tourmaline, trace disseminated py blebs to 1mm.	W811064	1.6	5.6	0.7
ROYRC18-07	315	320	96.01	97.54		W811065	Grano-diorite	green-grey	none							pyrite	0.1	dissem				Trace pyrite. End of Hole: 320 ft, 97.54m.	W811065	15.8	20.6	2.0











PROJECT: RUDE CREEK					HOLE_ID: ROYRC18-08					DATE LOGGED: 2018_08_14					LOGGED BY: L. LEWIS											
HOLE_ID	FROM_FT	TO_FT	FROM_M	TO_M	PHOTOS	SAMPLE_NO	LITHA	COLOR	REDOX	OXIDE_MIN	OXIDE_PCT	VEIN	VEIN_PCT	AS_PCT	AS_FORM	SULF1	SULF1_PCT	SULF1_FORM	ALT-1	ALT-1_FORM	ALT-1_INT	COMMENTS / DESCRIPTION	SAMPLE_NO	Al (ppb)	As (ppm)	Bi (ppm)
ROYRC18-08	0	3	0.00	0.91		W811067	Overburden															No chips recovered from surface to 3ft (0.9m).	-	-	-	-
ROYRC18-08	3	8	0.91	2.44		W811068	Granodiorite	orange	weak	lim, hem	3								calcite	patchy	moderate	Granodiorite, patchy orange oxide weathering, mg, subhedral crystals, feldspar, quartz with variable hornblende, biotite +/- tourmaline. Intermittant calcite, chlorite. Non-to very weakly magnetic. 15% finer grained diorite(?).	W811068	6.8	38.8	2.0
ROYRC18-08	8	13	2.44	3.96		W811069	Granodiorite	grey	none	lim	0.5								calcite	patchy	weak	Similar to above but without the finer grained intrusive. Only very minor limonite oxidation.	W811069	2.2	10.1	0.7
ROYRC18-08	13	15	3.96	4.57		W811070	Granodiorite	green-grey	none										chlorite	patchy	moderate	Amphiboles are strongly chloritized. Continued patchy calcite, trace epidote. Note this interval 2 ft wide, not the normal 5 ft.	W811070	21.4	20.6	1.4
ROYRC18-08	15	20	4.57	6.10		W811071	Granodiorite	green-grey	none	lim	0.5								calcite	patchy	moderate	Trace orange-brown oxidation.	W811071	8.0	12.1	0.5
ROYRC18-08	20	25	6.10	7.62		W811072	Granodiorite	green-grey	none										calcite	patchy	moderate	Calcite-chlorite-epidote alteration, patchy weak to moderate. Weakly magnetic. 10% finer grained intrusive (diorite?).	W811072	3.4	6.4	0.2
ROYRC18-08	25	30	7.62	9.14		W811073	Granodiorite	green-grey	none										chlorite	patchy	moderate	Similar to previous interval.	W811073	5.6	8.2	0.2
ROYRC18-08	30	35	9.14	10.67		W811074	Granodiorite	green-grey	none										calcite	patchy	moderate	As above, with 5% greenish-black mafic chips, fine grained that are strongly magnetic.	W811074	3.4	8.3	0.1
ROYRC18-08	35	40	10.67	12.19		W811075	Granodiorite	grey-green	none	hem	0.1				pyrite	0.5	dissem		calcite	patchy	moderate	Within the Granodiorite chips are 25% dark green finer grained mafic chips, strongly magnetic with trace disseminated pyrite cubes.	W811075	39.2	58.5	2.0
ROYRC18-08	40	45	12.19	13.72		W811076	Granodiorite	green-grey	none										calcite	patchy	moderate	Lacks the finer grained magnetic mafics. Granodiorite is weak to non-magnetic.	W811076	2.6	9.4	0.3






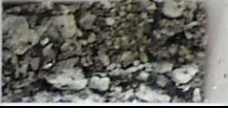
PROJECT: RUDE CREEK					HOLE_ID: ROYRC18-08			DATE LOGGED: 2018_08_14					LOGGED BY: L. LEWIS													
HOLE_ID	FROM_FT	TO_FT	FROM_M	TO_M	PHOTOS	SAMPLE_NO	LITHA	COLOR	REDOX	OXIDE_MIN	OXIDE_PCT	VEIN	VEIN_PCT	AS_PCT	AS_FORM	SULFEI	SULFEI_PCT	SULFEI_FORM	ALT-1	ALT-1_FORM	ALT-1_INT	COMMENTS / DESCRIPTION	SAMPLE_NO	Al (ppb)	As (ppm)	Bi (ppm)
ROYRC18-08	45	50	13.72	15.24		W811077	Grano diorite	green-grey	none										calcite	patchy	moderate	Similar to previous interval. Trace epidote.	W811077	22.0	14.4	0.5
ROYRC18-08	50	55	15.24	16.76		W811078	Grano diorite	green-grey	none						pyrite	0.1			calcite	patchy	moderate	Trace disseminated pyrite blebs to 1mm. Weakly magnetic.	W811078	25.3	17.2	0.3
ROYRC18-08	55	60	16.76	18.29		W811079	Grano diorite	green-grey	none										calcite	patchy	weak	1% radiating tourmaline to 2mm, trace epidote. Weakly magnetic.	W811079	6.2	8.0	0.1
ROYRC18-08	60	65	18.29	19.81		W811080	Grano diorite	green-grey	none										calcite	patchy	weak	Similar to previous interval. Trace hematite.	W811080	4.3	8.4	0.5
ROYRC18-08	65	70	19.81	21.34		W811081	Grano diorite	green-grey	none										calcite	patchy	weak	Continued weak calcite, moderate chlorite, trace epidote alteration. Weakly magnetic.	W811081	5.5	7.9	0.2
ROYRC18-08	70	75	21.34	22.86		W811082	Grano diorite	green-grey	none										calcite	patchy	weak	Similar to previous interval.	W811082	17.2	8.5	0.2
ROYRC18-08	75	80	22.86	24.38		W811083	Grano diorite	green-grey	none	hem, lim	0.5								calcite	patchy	weak	5% greenish-black mafic chips, fine grained, with patchy oxides, strongly magnetic.	W811083	8.7	9.0	0.4
ROYRC18-08	80	85	24.38	25.91		W811084	Grano diorite	green-grey	none										calcite	patchy	weak	Weakly magnetic.	W811084	1.4	5.6	0.1
ROYRC18-08	85	90	25.91	27.43		W811085	Grano diorite	green-grey	none										calcite	patchy	weak	Weakly magnetic. Trace fe-oxides.	W811085	1.8	5.3	0.3
ROYRC18-08	90	95	27.43	28.96		W811086	Grano diorite	green-grey	none	hem	0.1								calcite	patchy	weak	Trace hematite, increased kiwi-green epidote.	W811086	33.2	8.8	0.7

PROJECT: RUDE CREEK					HOLE_ID: ROYRC18-08			DATE LOGGED: 2018_08_14					LOGGED BY: L. LEWIS													
HOLE_ID	FROM_FT	TO_FT	FROM_M	TO_M	PHOTOS	SAMPLE_NO	LITHA	COLOR	REDOX	OXIDE_MIN	OXIDE_PCT	VEIN	VEIN_PCT	AS_PCT	AS_FORM	SULF1	SULF1_PCT	SULF1_FORM	ALT-1	ALT-1_FORM	ALT-1_INT	COMMENTS / DESCRIPTION	SAMPLE_NO	Al (ppb)	As (ppm)	Bi (ppm)
ROYRC18-08	95	100	28.96	30.48		W811087	Grano diorite	green-grey	none	hem	0.5					pyrite	0.1	dissem	calcite	patchy	weak	Trace disseminated pyrite associated with rare fe-oxide blebs.	W811087	2.1	7.3	0.4
ROYRC18-08	100	105	30.48	32.00		W811088	Grano diorite	green-grey	none	hem	0.5					pyrite	0.1	dissem	calcite	patchy	weak	Similar to previous interval. Continued weak to moderately magnetic.	W811088	2.2	9.1	0.7
ROYRC18-08	105	110	32.00	33.53		W811089	Grano diorite	green-grey	none	hem, lim	0.1								calcite	patchy	weak	Continued trace fe-oxides, no visible sulphides. Trace sericite.	W811089	<0.5	6.1	0.3
ROYRC18-08	110	115	33.53	35.05		W811090	Grano diorite	green-grey	none	hem, lim	0.5					pyrite	0.1	dissem	calcite	patchy	weak	Trace limonite + hematite along fractures, trace partially oxidized sulphides (pyrite?).	W811090	2.3	8.2	0.4
ROYRC18-08	115	120	35.05	36.58		W811091	Grano diorite	green-grey	none										calcite	patchy	weak	Weakly magnetic.	W811091	5.8	7.5	0.3
ROYRC18-08	120	125	36.58	38.10		W811092	Grano diorite	green-grey	none							pyrite	0.1	dissem	calcite	patchy	weak	Increasingly magnetic. Trace disseminated pyrite cubes.	W811092	14.1	8.4	0.2
ROYRC18-08	125	130	38.10	39.62		W811093	Grano diorite	green-grey	weak	lim	0.5					pyrite	0.5	dissem	calcite	patchy	weak	Weak patchy limonite, 0.5% granular pyrite blebs to 2mm.	W811093	44.6	16.7	0.6
ROYRC18-08	130	135	39.62	41.15		W811094	Grano diorite	green-grey	none							pyrite	0.5	blebs	calcite	patchy	weak	Pyrite (0.5%) seen as blebs associated with 1% tourmaline clusters.	W811094	5.7	8.8	0.4
ROYRC18-08	135	140	41.15	42.67		W811095	Grano diorite	green-grey	none	hem	0.5					pyrite	0.5	blebs	calcite	patchy	weak	Granular pyrite (0.5%) associated with weak hematite along fractues.	W811095	16.2	12.1	0.5
ROYRC18-08	140	145	42.67	44.20		W811096	Grano diorite	green-grey	none							pyrite	0.1	dissem	calcite	patchy	weak	0.5% epidote, trace disseminated pyrite. Continued moderately magnetic.	W811096	0.9	7.6	0.2

PROJECT: RUDE CREEK					HOLE_ID: ROYRC18-08			DATE LOGGED: 2018_08_14					LOGGED BY: L. LEWIS													
HOLE_ID	FROM_FT	TO_FT	FROM_M	TO_M	PHOTOS	SAMPLE_NO	LITHA	COLOR	REDOX	OXIDE_MIN	OXIDE_PCT	VEIN	VEIN_PCT	AS_PCT	AS_FORM	SULF1	SULF1_PCT	SULF1_FORM	ALT-1	ALT-1_FORM	ALT-1_INT	COMMENTS / DESCRIPTION	SAMPLE_NO	Al (ppb)	As (ppm)	Bi (ppm)
ROYRC18-08	145	150	44.20	45.72		W811097	Grano diorite	green-grey	none							pyrite	0.1	dissem	calcite	patchy	weak		W811097	2.1	6.2	0.2
ROYRC18-08	150	155	45.72	47.24		W811098	Grano diorite	green-grey	none							pyrite	0.1	dissem	calcite	patchy	weak	1% tourmaline crystals to 3mm, trace py along fractures.	W811098	<0.5	6.1	0.1
ROYRC18-08	155	160	47.24	48.77		W811099	Grano diorite	green-grey	none							pyrite	0.1	blebs	carb	patchy	weak		W811099	<0.5	13.5	0.3
ROYRC18-08	160	165	48.77	50.29		W811100	Grano diorite	green-grey	none							pyrite	0.5	blebs	carb	patchy	weak	Increased pyrite blebs to 3mm.	W811100	3.4	9.8	0.2
ROYRC18-08	165	170	50.29	51.82		W811101	Grano diorite	green-grey	none							pyrite	0.5	blebs	carb	patchy	weak	2 different crystal habits of pyrite; granular blebs that are partially oxidized and euhedral, bright, brassy, unoxidized cubes.	W811101	2.4	6.3	0.3
ROYRC18-08	170	175	51.82	53.34		W811102	Grano diorite	green-grey	none							pyrite	0.1	dissem	carb	patchy	weak		W811102	0.5	6.9	0.3
ROYRC18-08	175	180	53.34	54.86		W811103	Grano diorite	green-grey	none	hem	0.1					pyrite	0.1	dissem	carb	patchy	moderate	Increased tourmaline, trace hem and associated pyrite.	W811103	<0.5	9.7	0.3
ROYRC18-08	180	185	54.86	56.39		W811104	Grano diorite	green-grey	none							pyrite	0.5	blebs	carb	patchy	moderate	Trace subhedral pyrite crystals in clusters to 2mm. Trace tourmaline, epidote. Continued weak to moderately magnetic.	W811104	<0.5	6.8	0.1
ROYRC18-08	185	190	56.39	57.91		W811105	Grano diorite	green-grey	none							pyrite	0.1	dissem	carb	patchy	weak	2% tourmaline, trace disseminated pyrite blebs.	W811105	<0.5	9.3	0.2
ROYRC18-08	190	195	57.91	59.44		W811106	Grano diorite	green-grey	none							pyrite	0.1	dissem	carb	patchy	weak	Similar to above.	W811106	<0.5	8.0	0.2

PROJECT: RUDE CREEK					HOLE_ID: ROYRC18-08			DATE LOGGED: 2018_08_14					LOGGED BY: L. LEWIS													
HOLE_ID	FROM_FT	TO_FT	FROM_M	TO_M	PHOTOS	SAMPLE_NO	LITHA	COLOR	REDOX	OXIDE_MIN	OXIDE_PCT	VEIN	VEIN_PCT	AS_PCT	AS_FORM	SULF1	SULF1_PCT	SULF1_FORM	ALT-1	ALT-1_FORM	ALT-1_INT	COMMENTS / DESCRIPTION	SAMPLE_NO	Al (ppb)	As (ppm)	Bi (ppm)
ROYRC18-08	195	200	59.44	60.96		W811107	Grano diorite	green- grey	none										carb	patchy	weak	Lacks visible pyrite. Moderately magnetic.	W811107	<0.5	8.7	0.2
ROYRC18-08	200	205	60.96	62.48		W811108	Grano diorite	green- grey	weak	lim	2	qtz- carb	3			pyrite	1	blebs	carb	patchy	weak	3% quartz-carbonate chips (vein?), limonite stained without visible sulphides. 1% pyrite blebs occur within the granodiorite. Patchy weak magnetite.	W811108	28.4	27.1	0.6
ROYRC18-08	205	210	62.48	64.01		W811109	Monzo nite	orange	mod	lim	8	qtz	5	0.5	sub- hedra l	pyrite	2	blebs	carb	patchy	weak	Predominantly finer grained felsic intrusive spotted with sparse mafic crystals. Monzonite(?). 8% strongly oxidized, vuggy chips with 2% pyrite blebs and up to 0.5% partially oxidized arsenopyrite(?). 5% limonitic quartz vein chips.	W811109	80.5	407.4	1.0
ROYRC18-08	210	215	64.01	65.53		W811110	Monzo nite	grey	weak	lim	4					pyrite	3	blebs	carb	patchy	weak	Similar to previous interval with increased pyrite blebs but no visible arsenopyrite. Reduced oxidation, but still present. Both this and upper interval are non- to weakly magnetic.	W811110	51.5	256.6	0.7
ROYRC18-08	215	220	65.53	67.06		W811111	Grano diorite	green- grey	none	lim	0.5					pyrite	0.5	dissem	carb	patchy	weak	Back into the coarser grained Granodiorite, decreased pyrite and fe-oxides. Weak to moderately magnetic.	W811111	2.7	31.0	0.2
ROYRC18-08	220	225	67.06	68.58		W811112	Grano diorite	green- grey	none							pyrite	0.1	dissem	carb	patchy	weak	Similar to above, with decreased pyrite.	W811112	3.4	22.9	0.3
ROYRC18-08	225	230	68.58	70.10		W811113	Grano diorite	green- grey	none										carb	patchy	weak	Biotite-rich, weak chlorite-carbonate alteration.	W811113	<0.5	12.5	0.2
ROYRC18-08	230	235	70.10	71.63		W811114	Grano diorite	green- grey	none							pyrite	0.1	blebs	carb	patchy	weak	Similar to above. Trace pyrite blebs.	W811114	<0.5	7.1	0.1
ROYRC18-08	235	240	71.63	73.15		W811115	Grano diorite	green- grey	none										carb	patchy	weak	Biotite-rich, weak carbonate alteration. Moderate to strongly magnetic.	W811115	<0.5	5.8	<0.1
ROYRC18-08	240	245	73.15	74.68		W811116	Grano diorite	green- grey	none										carb	patchy	weak	Similar to previous interval.	W811116	1.0	5.2	<0.1

PROJECT: RUDE CREEK					HOLE_ID: ROYRC18-08			DATE LOGGED: 2018_08_14					LOGGED BY: L. LEWIS													
HOLE_ID	FROM_FT	TO_FT	FROM_M	TO_M	PHOTOS	SAMPLE_NO	LITHA	COLOR	REDOX	OXIDE_MIN	OXIDE_PCT	VEIN	VEIN_PCT	AS_PCT	AS_FORM	SULFEI	SULFEI_PCT	SULFEI_FORM	ALT-1	ALT-1_FORM	ALT-1_INT	COMMENTS / DESCRIPTION	SAMPLE_NO	Al (ppb)	As (ppm)	Bi (ppm)
ROYRC18-08	245	250	74.68	76.20		W811117	Grano diorite	green-grey	none							pyrite	0.5	blebs	carb	patchy	weak	Increased pyrite blebs to 2mm, associated with fine grained mafic chips. Moderate to strongly magnetic.	W811117	7.5	26.0	0.3
ROYRC18-08	250	255	76.20	77.72		W811118	Grano diorite	green-grey	none							pyrite	0.1	dissem	carb	patchy	weak	10% fine grained felsic rock with chloritized mafics (similar to 205-210ft). Weak to moderately magnetic.	W811118	7.7	18.5	0.6
ROYRC18-08	255	260	77.72	79.25		W811119	Grano diorite	green-grey	none										carb	patchy	weak	Biotite-hornblende granodiorite with weak epidote-carbonate-chlorite alteration. Lacks visible sulphides. Weakly magnetic.	W811119	0.7	5.3	0.2
ROYRC18-08	260	265	79.25	80.77		W811120	Grano diorite	green-grey	none										carb	patchy	weak	Similar to previous interval.	W811120	2.7	6.9	0.2
ROYRC18-08	265	270	80.77	82.30		W811121	Grano diorite	green-grey	none							pyrite	0.1	blebs	carb	patchy	weak	Similar to previous two intervals; minor vuggy, oxidized sulphide clots (brown), pyrite?	W811121	<0.5	6.4	0.3
ROYRC18-08	270	275	82.30	83.82		W811122	Grano diorite	green-grey	none										carb	patchy	weak	Moderately magnetic, trace tourmaline.	W811122	<0.5	6.3	<0.1
ROYRC18-08	275	280	83.82	85.34		W811123	Grano diorite	green-grey	none										carb	patchy	weak	Hornblende-biotite granodiorite, biotite to 3mm, moderate to strongly magnetic, weak carbonate-chlorite alteration.	W811123	<0.5	5.1	<0.1
ROYRC18-08	280	285	85.34	86.87		W811124	Grano diorite	green-grey	none										carb	patchy	weak	Similar to previous interval	W811124	<0.5	5.6	<0.1
ROYRC18-08	285	290	86.87	88.39		W811125	Grano diorite	green-grey	none										carb	patchy	weak	Similar to previous two intervals.	W811125	2.6	10.0	1.4
ROYRC18-08	290	295	88.39	89.92		W811126	Grano diorite	green-grey	none										carb	patchy	weak	Similar to previous intervals, minor epidote.	W811126	1.6	9.7	0.4

PROJECT: RUDE CREEK					HOLE_ID: ROYRC18-08			DATE LOGGED: 2018_08_14					LOGGED BY: L. LEWIS														
HOLE_ID	FROM_FT	TO_FT	FROM_M	TO_M	PHOTOS	SAMPLE_NO	LITHA	COLOR	REDOX	OXIDE_MIN	OXIDE_PCT	VEIN	VEIN_PCT	AS_PCT	AS_FORM	SULFEI	SULFEI_PCT	SULFEI_FORM	ALT-1	ALT-1_FORM	ALT-1_INT	COMMENTS / DESCRIPTION	SAMPLE_NO	Al (ppb)	As (ppm)	Bi (ppm)	
ROYRC18-08	295	300	89.92	91.44		W811127	Grano diorite	green- grey	none											carb	patchy	weak	89.92-99.06 (EOH), fairly homogeneous rock through to the end of hole, medium grained, feldspar-quartz-biotite-hornblende granodiorite with patchy weak carbonate-chlorite (epidote) alteration. Lacks visible sulphides.	W811127	<0.5	6.9	0.1
ROYRC18-08	300	305	91.44	92.96		W811128	Grano diorite	green- grey	none											carb	patchy	weak	Similar to previous interval.	W811128	<0.5	6.4	0.2
ROYRC18-08	305	310	92.96	94.49		W811129	Grano diorite	green- grey	none											carb	patchy	weak	Similar to previous interval.	W811129	<0.5	6.8	0.1
ROYRC18-08	310	315	94.49	96.01		W811130	Grano diorite	green- grey	none											carb	patchy	weak	Similar to previous interval.	W811130	0.5	7.8	0.1
ROYRC18-08	315	320	96.01	97.54		W811131	Grano diorite	green- grey	none											carb	patchy	weak	Similar to previous interval.	W811131	5.9	8.0	0.1
ROYRC18-08	320	325	97.54	99.06		W811132	Grano diorite	green- grey	none											carb	patchy	weak	End of Hole: 325 ft, 99.06m	W811132	5.7	9.0	0.1